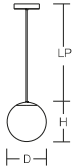




Pendant luminaires | BASIC BALL - Glass

Type of protection: **IP 40**
Protection class: **I**
Impact protection: **IK02**
Sphere: opal glass, mouth-blown, satin finish. Canopy: metal, chrome-plated.
Chrome cap.

Modular design: Pendant tube must be ordered separately!
Available colour: 2 = white



Comparison
LED vs. conventional lamps

LED 28 W ≈
2 x 26 W TC-D (68 W Psys)

LED 55 W ≈
3 x 42 W TC-TEL (137 W Psys)

LED 79 W ≈
4 x 42 W TC-TEL (180 W Psys)

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Pendant luminaires						
Glass sphere						
D 350 mm						
312115.002.76	D 350, H 350	830	2400	28	86	DALI
312115.002.1.76	D 350, H 350	840	2500	28	89	DALI
312116.002.76	D 350, H 350	830	5800	55	105	DALI
312116.002.1.76	D 350, H 350	840	5950	55	108	DALI
D 400 mm						
312119.002.76	D 400, H 400	830	7900	79	100	DALI
312119.002.1.76	D 400, H 400	840	8100	79	103	DALI
D 500 mm						
312120.002.76	D 500, H 500	830	8150	79	103	DALI
312120.002.1.76	D 500, H 500	840	8400	79	106	DALI
D 600 mm						
312121.002.76	D 600, H 600	830	8200	79	104	DALI
312121.002.1.76	D 600, H 600	840	8450	79	107	DALI



Pendant tube (can be shortened on site) - To be ordered separately			Price Category 21
982229.0044	D 13, LP 1000	Pendant tube chrome-plated, including power supply cable and mounting material. Special pendant lengths available on request.	
982230.0044	D 13, LP 1500	Pendant tube chrome-plated, including power supply cable and mounting material. Special pendant lengths available on request.	
982231.0044	D 13, LP 2000	Pendant tube chrome-plated, including power supply cable and mounting material. Special pendant lengths available on request.	



Adaptor, aluminium			Price Category 21
981222.000	D 35, H 15	For mounting a pendant tube shortened on site (incl. mounting material)	



Connection sleeve, M13 x 1, chrome-plated, for pendant tube extension			Price Category 21
981230.0044	D 18, H 40	Accessories for connecting two pendant tubes	



Chrome cap

Pendant luminaires | BASIC BALL - Plastic

 Type of protection: **IP 40**

Protection class: I

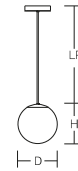
Impact protection: IK10

Impact-resistant plastic ball made of UV-stabilized polyethylene (PE), opal, satin finish.

Canopy: metal, chrome-plated. White cap.

Modular design: Pendant tube must be ordered separately!

Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Pendant luminaires						
Plastic sphere						
D 350 mm						
312122.002.76	D 350, H 350	830	2550	28	91	DALI
312122.002.1.76	D 350, H 350	840	2650	28	95	DALI
312123.002.76	D 350, H 350	830	6150	55	112	DALI
312123.002.1.76	D 350, H 350	840	6350	55	115	DALI
D 400 mm						
312125.002.76	D 400, H 400	830	8550	79	108	DALI
312125.002.1.76	D 400, H 400	840	8850	79	112	DALI
D 500 mm						
312126.002.76	D 500, H 500	830	8650	79	109	DALI
312126.002.1.76	D 500, H 500	840	8900	79	113	DALI
D 630 mm						
312127.002.76	D 630, H 630	830	8600	79	109	DALI
312127.002.1.76	D 630, H 630	840	8900	79	113	DALI

**Comparison
LED vs. conventional lamps**
LED 28 W ≈

2 x 26 W TC-D (68 W Psys)

LED 55 W ≈

3 x 42 W TC-TEL (137 W Psys)

LED 79 W ≈

4 x 42 W TC-TEL (180 W Psys)

Pendant tube (can be shortened on site) - To be ordered separately			Price Category 21
982229.0044	D 13, LP 1000	Pendant tube chrome-plated, including power supply cable and mounting material. Special pendant lengths available on request.	
982230.0044	D 13, LP 1500	Pendant tube chrome-plated, including power supply cable and mounting material. Special pendant lengths available on request.	
982231.0044	D 13, LP 2000	Pendant tube chrome-plated, including power supply cable and mounting material. Special pendant lengths available on request.	



Adaptor, aluminium			Price Category 21
981222.000	D 35, H 15	For mounting a pendant tube shortened on site (incl. mounting material)	



Connection sleeve, M13 x 1, chrome-plated, for pendant tube extension			Price Category 21
981230.0044	D 18, H 40	Accessories for connecting two pendant tubes	



White cap



DALI



Pendant luminaires | GLASDOWNLIGHT

Type of protection: IP 20

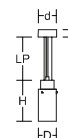
Protection class: I

Impact protection: IK02

Suspension Length: 500-1250 mm

Base: aluminium, powder-coated, Opal glass: mouth-blown, satin finish, Glass fastening: retaining screws. Canopy: aluminium, powder-coated, 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Pendant luminaires						
Diameter D 120 mm, canopy d 122 mm, h 50 mm						
931181.002	D 120, H 300	830	1200	9,5	126	on/off
931181.002.1	D 120, H 300	840	1250	9,5	132	on/off
931182.002	D 120, H 470	830	2400	19	126	on/off
931182.002.1	D 120, H 470	840	2500	19	132	on/off
Diameter D 150 mm, canopy d 122 mm, h 50 mm						
931183.002	D 150, H 300	830	2500	21	119	on/off
931183.002.76	D 150, H 300	830	2900	24	121	DALI
931183.002.1	D 150, H 300	840	2600	21	124	on/off
931183.002.1.76	D 150, H 300	840	3000	24	125	DALI
931184.002	D 150, H 470	830	2600	20	130	on/off
931184.002.76	D 150, H 470	830	3350	26	129	DALI
931184.002.1	D 150, H 470	840	2750	20	138	on/off
931184.002.1.76	D 150, H 470	840	3550	26	137	DALI

Comparison LED vs. conventional lamps

LED 9,5 W ≈

1 x 20 W HIT (23 W Psys)

LED 19 / 20 / 21 W ≈

1 x 35 W HIT (43 W Psys)

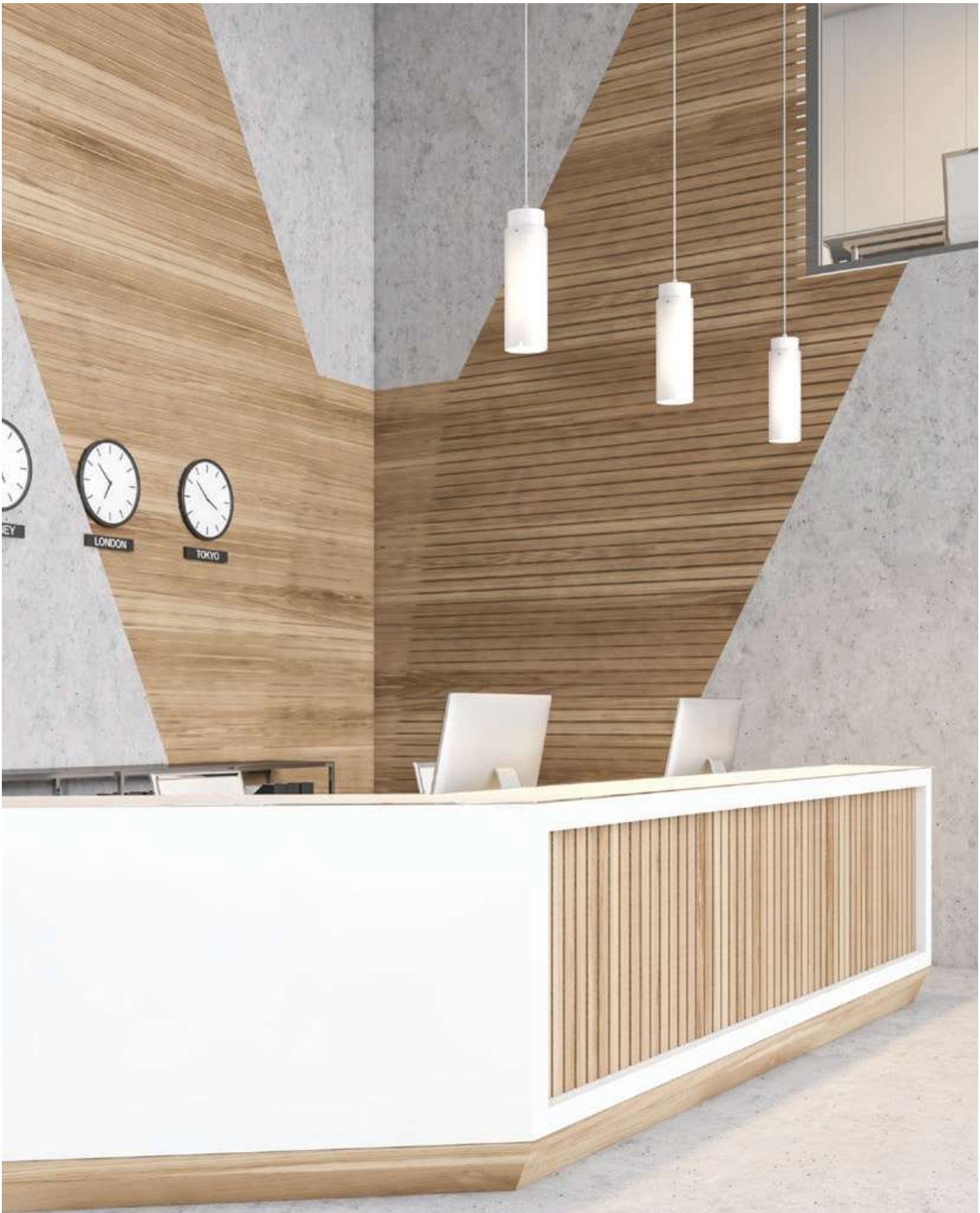
LED 24 / 26 W ≈

1 x 50 W HIT (56 W Psys)



Further luminaires of this series, see:

Indoor lighting | Ceiling and wall luminaires - decorative





DEECOS P

Pendant luminaires

ARCHITECTURE

- **Design-oriented:** Cylindrical shape with no visible cooling fins.
- **Variable:** MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone.
- **Long service life:** High quality die-cast aluminium housing in three sizes.
- **Interchangeable:** Interchangeable lenses with different beam angles.



Further luminaires of this series, see:

Indoor lighting | Recessed projectors

Indoor lighting | Surface mounted projectors

LIGHTING DESIGN

- **Standard:** Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality.
- **Anti-glare:** Black plastic ring and recessed LED to prevent glare from the side.
- **Versatile:** 7 different light colors with CRI >90 and special Food-LEDs available as standard.
- **True colours:** CRI >90 for the most realistic possible perception of colours of surroundings, objects and people.
- **Advantageous:** LED rated life 50000 h (L90/B10).
- **Optimum:** Colour tolerance within 2-steps MacAdam (2 SDCM).

INSTALLATION

- **Easy installation:** Transparent, adjustable pendant cable and canopy with magnetic fixing.
- **Extensive:** The following accessories can be mounted without use of tools: interchangeable lenses, decorative glasses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.

Pendant luminaires | DEECOS P micro - Optic reflector

Type of protection: IP 20

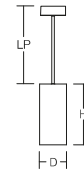
Protection class: I


Impact protection: IK06

Suspension Length: 3000 mm

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. With MIRO-SILVER® reflector. Transparent suspension cable 3 m, can be shortened. Canopy made of powder-coated sheet steel with magnetic attachment.

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	Lighting control
Pendant luminaires - Reflector flood							
Cylinder height 190 mm							
911489.00X	D 60, H 190	927	1500	16	94	38	on/off
911489.00X.76	D 60, H 190	927	1500	16	94	38	DALI
911489.00X.1	D 60, H 190	930	1650	16	103	38	on/off
911489.00X.1.76	D 60, H 190	930	1650	16	103	38	DALI
911489.00X.2	D 60, H 190	940	1750	16	109	38	on/off
911489.00X.2.76	D 60, H 190	940	1750	16	109	38	DALI
Cylinder height 340 mm							
911491.00X	D 60, H 340	927	1500	16	94	38	on/off
911491.00X.76	D 60, H 340	927	1500	16	94	38	DALI
911491.00X.1	D 60, H 340	930	1650	16	103	38	on/off
911491.00X.1.76	D 60, H 340	930	1650	16	103	38	DALI
911491.00X.2	D 60, H 340	940	1750	16	109	38	on/off
911491.00X.2.76	D 60, H 340	940	1750	16	109	38	DALI

Price Category 21

Comparison LED vs. conventional lamps
LED 16 W ≈

1 x 90 W QT12 (96 W Psys)

1 x 20 W HIT (23 W Psys)

Pendant luminaires | DEECOS P micro - Optic lens

Type of protection: IP 20

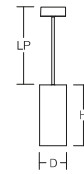
Protection class: I


Impact protection: IK06

Suspension Length: 3000 mm

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. With optical assembly polycarbonate lens. Transparent suspension cable 3 m, can be shortened. Canopy made of powder-coated sheet steel with magnetic attachment.

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	Lighting control
Pendant luminaires - Wide flood lens							
Cylinder height 190 mm							
911490.00X	D 60, H 190	927	1100	16	69	52	on/off
911490.00X.76	D 60, H 190	927	1100	16	69	52	DALI
911490.00X.1	D 60, H 190	930	1200	16	75	52	on/off
911490.00X.1.76	D 60, H 190	930	1200	16	75	52	DALI
911490.00X.2	D 60, H 190	940	1250	16	78	52	on/off
911490.00X.2.76	D 60, H 190	940	1250	16	78	52	DALI
Cylinder height 340 mm							
911492.00X	D 60, H 340	927	1100	16	69	52	on/off
911492.00X.76	D 60, H 340	927	1100	16	69	52	DALI
911492.00X.1	D 60, H 340	930	1200	16	75	52	on/off
911492.00X.1.76	D 60, H 340	930	1200	16	75	52	DALI
911492.00X.2	D 60, H 340	940	1250	16	78	52	on/off
911492.00X.2.76	D 60, H 340	940	1250	16	78	52	DALI

Price Category 21

Comparison LED vs. conventional lamps
LED 16 W ≈

1 x 75 W QT12 (80 W Psys)

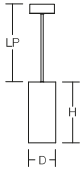
superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°


 Accessories:
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Pendant luminaires | DEECOS P mini - Optic reflector


Type of protection: IP 20
Protection class: I
Impact protection: IK06
Suspension Length: 5000 mm
Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. With MIRO-SILVER® reflector. Transparent pendant cable 5 m, can be shortened, with integrated steel cable.
Canopy made of powder-coated sheet steel with magnetic attachment.
Suitable for decor cylinder DEECOS P tube.
Available colours (X): 2 = white, 3 = black, 4 = silver



Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com

Comparison
LED vs. conventional lamps

LED 20 W ≈
1 x 35 W HIT (43 W Psys)
LED 29 W ≈
1 x 50 W HIT (56 W Psys)

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 α [°]	Lighting control
Pendant luminaires - Reflector spot							Price Category 21
911513.00X	D 87, H 195	930	2450	20	123	18	on/off
911513.00X.76	D 87, H 195	930	2450	20	123	18	DALI
911513.00X.1	D 87, H 195	940	2550	20	128	18	on/off
911513.00X.1.76	D 87, H 195	940	2550	20	128	18	DALI
911521.00X	D 87, H 195	930	3500	29	121	18	on/off
911521.00X.76	D 87, H 195	930	3500	29	121	18	DALI
911521.00X.1	D 87, H 195	940	3550	29	122	18	on/off
911521.00X.1.76	D 87, H 195	940	3550	29	122	18	DALI
Pendant luminaires - Reflector medium							Price Category 21
911514.00X	D 87, H 195	930	2400	20	120	31	on/off
911514.00X.76	D 87, H 195	930	2400	20	120	31	DALI
911514.00X.1	D 87, H 195	940	2450	20	123	31	on/off
911514.00X.1.76	D 87, H 195	940	2450	20	123	31	DALI
911522.00X	D 87, H 195	930	3350	29	116	31	on/off
911522.00X.76	D 87, H 195	930	3350	29	116	31	DALI
911522.00X.1	D 87, H 195	940	3500	29	121	31	on/off
911522.00X.1.76	D 87, H 195	940	3500	29	121	31	DALI
Pendant luminaires - Reflector wide flood							Price Category 21
911515.00X	D 87, H 195	930	2450	20	123	60	on/off
911515.00X.76	D 87, H 195	930	2450	20	123	60	DALI
911515.00X.1	D 87, H 195	940	2550	20	128	60	on/off
911515.00X.1.76	D 87, H 195	940	2550	20	128	60	DALI
911523.00X	D 87, H 195	930	3500	29	121	60	on/off
911523.00X.76	D 87, H 195	930	3500	29	121	60	DALI
911523.00X.1	D 87, H 195	940	3650	29	126	60	on/off
911523.00X.1.76	D 87, H 195	940	3650	29	126	60	DALI



Accessories:
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Pendant luminaires | DEECOS P mini - Optic lens

Type of protection: IP 20

Protection class: I

Impact protection: IK06

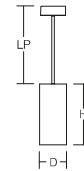
Suspension Length: 5000 mm

Housing: die-cast aluminium, powder-coated, Heat resistant plastic ring black.

With optical assembly polycarbonate lens. Transparent pendant cable 5 m, can be shortened, with integrated steel cable. Canopy made of powder-coated sheet steel with magnetic attachment.

Suitable for decor cylinder DEECOS P tube.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com


Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Pendant luminaires - Spot lens							Price Category 21
911516.00X	D 87, H 195	930	2150	20	108	20	on/off
911516.00X.76	D 87, H 195	930	2150	20	108	20	DALI
911516.00X.1	D 87, H 195	940	2250	20	113	20	on/off
911516.00X.1.76	D 87, H 195	940	2250	20	113	20	DALI
911524.00X	D 87, H 195	930	3050	29	105	20	on/off
911524.00X.76	D 87, H 195	930	3050	29	105	20	DALI
911524.00X.1	D 87, H 195	940	3200	29	110	20	on/off
911524.00X.1.76	D 87, H 195	940	3200	29	110	20	DALI

Pendant luminaires - Medium lens							Price Category 21
911517.00X	D 87, H 195	930	2050	20	103	31	on/off
911517.00X.76	D 87, H 195	930	2050	20	103	31	DALI
911517.00X.1	D 87, H 195	940	2100	20	105	31	on/off
911517.00X.1.76	D 87, H 195	940	2100	20	105	31	DALI
911525.00X	D 87, H 195	930	2900	29	100	31	on/off
911525.00X.76	D 87, H 195	930	2900	29	100	31	DALI
911525.00X.1	D 87, H 195	940	3050	29	105	31	on/off
911525.00X.1.76	D 87, H 195	940	3050	29	105	31	DALI

Pendant luminaires - Flood lens							Price Category 21
911518.00X	D 87, H 195	930	1900	20	95	44	on/off
911518.00X.76	D 87, H 195	930	1900	20	95	44	DALI
911518.00X.1	D 87, H 195	940	2000	20	100	44	on/off
911518.00X.1.76	D 87, H 195	940	2000	20	100	44	DALI
911526.00X	D 87, H 195	930	2750	29	95	44	on/off
911526.00X.76	D 87, H 195	930	2750	29	95	44	DALI
911526.00X.1	D 87, H 195	940	2850	29	98	44	on/off
911526.00X.1.76	D 87, H 195	940	2850	29	98	44	DALI

Pendant luminaires - Extra wide flood lens							Price Category 21
911519.00X	D 87, H 195	930	2200	20	110	72	on/off
911519.00X.76	D 87, H 195	930	2200	20	110	72	DALI
911519.00X.1	D 87, H 195	940	2300	20	115	72	on/off
911519.00X.1.76	D 87, H 195	940	2300	20	115	72	DALI
911527.00X	D 87, H 195	930	3100	29	107	72	on/off
911527.00X.76	D 87, H 195	930	3100	29	107	72	DALI
911527.00X.1	D 87, H 195	940	3250	29	112	72	on/off
911527.00X.1.76	D 87, H 195	940	3250	29	112	72	DALI

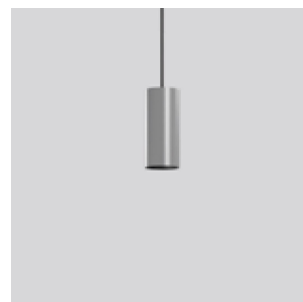
Comparison LED vs. conventional lamps
LED 20 W ≈

1 x 35 HIT (43 W Psys)

LED 29 W ≈

1 x 50 W HIT (56 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°


 Accessories:
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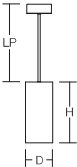



Pendant luminaires | DEECOS P mini - Oval corridor optic lens

Type of protection: IP 20
Protection class: I
Impact protection: IK06
Suspension Length: 5000 mm
Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. With optical assembly polycarbonate lens. Transparent pendant cable 5 m, can be shortened, with integrated steel cable. Canopy made of powder-coated sheet steel with magnetic attachment.

Suitable for decor cylinder DEECOS P tube.
Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com




Comparison
LED vs. conventional lamps

LED 20 W ≈
1 x 20 HIT (23 W Psys)

LED 29 W ≈
1 x 35 W HIT (43 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 α [°]	Lighting control
Pendant luminaires - Oval corridor lens							
911520.00X	D 87, H 195	930	1850	20	93	40/28	on/off
911520.00X.76	D 87, H 195	930	1850	20	93	40/28	DALI
911520.00X.1	D 87, H 195	940	1950	20	98	40/28	on/off
911520.00X.1.76	D 87, H 195	940	1950	20	98	40/28	DALI
911528.00X	D 87, H 195	930	2650	29	91	40/28	on/off
911528.00X.76	D 87, H 195	930	2650	29	91	40/28	DALI
911528.00X.1	D 87, H 195	940	2750	29	95	40/28	on/off
911528.00X.1.76	D 87, H 195	940	2750	29	95	40/28	DALI



Accessories:
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Pendant luminaires | DEECOS P maxi - Optic reflector

Type of protection: IP 20

Protection class: I

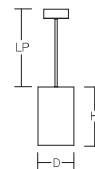
Impact protection: IK06

Suspension Length: 2000 mm

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black.
With MIRO-SILVER® reflector. Transparent suspension cable 2 m, can be shortened.
Canopy made of powder-coated sheet steel with magnetic attachment.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 25 W ≈

1 x 35 HIT (43 W Psys)

LED 35 W ≈

1 x 50 W HIT (56 W Psys)



Pendant luminaires - Reflector spot

Price Category 21

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
911529.00X	D 123, H 181	930	3050	25	122	12	on/off
911529.00X.76	D 123, H 181	930	3050	25	122	12	DALI
911529.00X.1	D 123, H 181	940	3200	25	128	12	on/off
911529.00X.1.76	D 123, H 181	940	3200	25	128	12	DALI
911536.00X	D 123, H 181	930	4000	35	114	12	on/off
911536.00X.76	D 123, H 181	930	4000	35	114	12	DALI
911536.00X.1	D 123, H 181	940	4200	35	120	12	on/off
911536.00X.1.76	D 123, H 181	940	4200	35	120	12	DALI



Pendant luminaires - Reflector medium

Price Category 21

911530.00X	D 123, H 181	930	3150	25	126	21	on/off
911530.00X.76	D 123, H 181	930	3150	25	126	21	DALI
911530.00X.1	D 123, H 181	940	3300	25	132	21	on/off
911530.00X.1.76	D 123, H 181	940	3300	25	132	21	DALI
911537.00X	D 123, H 181	930	4200	35	120	21	on/off
911537.00X.76	D 123, H 181	930	4200	35	120	21	DALI
911537.00X.1	D 123, H 181	940	4300	35	123	21	on/off
911537.00X.1.76	D 123, H 181	940	4300	35	123	21	DALI



Pendant luminaires - Reflector flood

Price Category 21

911531.00X	D 123, H 181	930	3150	25	126	33	on/off
911531.00X.76	D 123, H 181	930	3150	25	126	33	DALI
911531.00X.1	D 123, H 181	940	3350	25	134	33	on/off
911531.00X.1.76	D 123, H 181	940	3350	25	134	33	DALI
911538.00X	D 123, H 181	930	4200	35	120	33	on/off
911538.00X.76	D 123, H 181	930	4200	35	120	33	DALI
911538.00X.1	D 123, H 181	940	4350	35	124	33	on/off
911538.00X.1.76	D 123, H 181	940	4350	35	124	33	DALI



Pendant luminaires - Reflector wide flood

Price Category 21

911532.00X	D 123, H 181	930	3050	25	122	65	on/off
911532.00X.76	D 123, H 181	930	3050	25	122	65	DALI
911532.00X.1	D 123, H 181	940	3200	25	128	65	on/off
911532.00X.1.76	D 123, H 181	940	3200	25	128	65	DALI
911539.00X	D 123, H 181	930	3950	35	113	65	on/off
911539.00X.76	D 123, H 181	930	3950	35	113	65	DALI
911539.00X.1	D 123, H 181	940	4200	35	120	65	on/off
911539.00X.1.76	D 123, H 181	940	4200	35	120	65	DALI



Accessories:
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Pendant luminaires | DEECOS P maxi - Optic lens

Type of protection: IP 20

Protection class: I

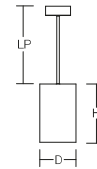
Impact protection: IK06

Suspension Length: 2000 mm

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black.

 With optical assembly polycarbonate lens. Transparent suspension cable 2 m, can be shortened.
 Canopy made of powder-coated sheet steel with magnetic attachment.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com


Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Pendant luminaires - Spot lens							Price Category 21
911533.00X	D 123, H 181	930	2700	25	108	13	on/off
911533.00X.76	D 123, H 181	930	2700	25	108	13	DALI
911533.00X.1	D 123, H 181	940	2800	25	112	13	on/off
911533.00X.1.76	D 123, H 181	940	2800	25	112	13	DALI
911540.00X	D 123, H 181	930	3500	35	100	13	on/off
911540.00X.76	D 123, H 181	930	3500	35	100	13	DALI
911540.00X.1	D 123, H 181	940	3700	35	106	13	on/off
911540.00X.1.76	D 123, H 181	940	3700	35	106	13	DALI

Pendant luminaires - Medium lens							Price Category 21
911534.00X	D 123, H 181	930	2600	25	104	31	on/off
911534.00X.76	D 123, H 181	930	2600	25	104	31	DALI
911534.00X.1	D 123, H 181	940	2700	25	108	31	on/off
911534.00X.1.76	D 123, H 181	940	2700	25	108	31	DALI
911541.00X	D 123, H 181	930	3400	35	97	31	on/off
911541.00X.76	D 123, H 181	930	3400	35	97	31	DALI
911541.00X.1	D 123, H 181	940	3550	35	101	31	on/off
911541.00X.1.76	D 123, H 181	940	3550	35	101	31	DALI

Pendant luminaires - Flood lens							Price Category 21
911535.00X	D 123, H 181	930	2650	25	106	42	on/off
911535.00X.76	D 123, H 181	930	2650	25	106	42	DALI
911535.00X.1	D 123, H 181	940	2800	25	112	42	on/off
911535.00X.1.76	D 123, H 181	940	2800	25	112	42	DALI
911542.00X	D 123, H 181	930	3450	35	99	42	on/off
911542.00X.76	D 123, H 181	930	3450	35	99	42	DALI
911542.00X.1	D 123, H 181	940	3650	35	104	42	on/off
911542.00X.1.76	D 123, H 181	940	3650	35	104	42	DALI

**Comparison
LED vs. conventional lamps**
LED 25 W ≈

1 x 35 HIT (43 W Psys)

LED 35 W ≈

1 x 50 W HIT (56 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°


 Accessories:
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Pendant luminaires | DEECOS P maxi - Food optic reflector

Type of protection: IP 20

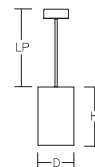
Protection class: I

Impact protection: IK06

Suspension Length: 2000 mm


Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. With MIRO-SILVER® reflector and special food LED, Transparent suspension cable 2 m, can be shortened, Canopy made of powder-coated sheet steel with magnetic attachment.

Available colours (X): 2 = white, 3 = black, 4 = silver



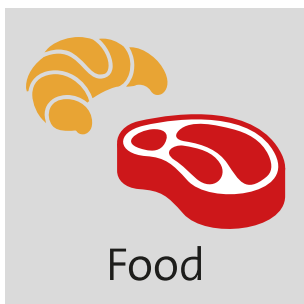
Food LED light colours show food in its best light:

- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 α [°]	Lighting control
Pendant luminaires - Reflector spot							Price Category 21
911557.00X.2	D 123, H 181	bakery	3300	33	100	17	on/off
911557.00X.2.76	D 123, H 181	bakery	3300	33	100	17	DALI
911543.00X	D 123, H 181	fresh meat	2100	33	64	17	on/off
911543.00X.76	D 123, H 181	fresh meat	2100	33	64	17	DALI
911550.00X	D 123, H 181	meat +	2200	33	67	17	on/off
911550.00X.76	D 123, H 181	meat +	2200	33	67	17	DALI
Pendant luminaires - Reflector medium							Price Category 21
911558.00X.2	D 123, H 181	bakery	3400	33	103	23	on/off
911558.00X.2.76	D 123, H 181	bakery	3400	33	103	23	DALI
911544.00X	D 123, H 181	fresh meat	2150	33	65	23	on/off
911544.00X.76	D 123, H 181	fresh meat	2150	33	65	23	DALI
911551.00X	D 123, H 181	meat +	2250	33	68	23	on/off
911551.00X.76	D 123, H 181	meat +	2250	33	68	23	DALI
Pendant luminaires - Reflector flood							Price Category 21
911559.00X.2	D 123, H 181	bakery	3450	33	105	33	on/off
911559.00X.2.76	D 123, H 181	bakery	3450	33	105	33	DALI
911545.00X	D 123, H 181	fresh meat	2150	33	65	33	on/off
911545.00X.76	D 123, H 181	fresh meat	2150	33	65	33	DALI
911552.00X	D 123, H 181	meat +	2250	33	68	33	on/off
911552.00X.76	D 123, H 181	meat +	2250	33	68	33	DALI
Pendant luminaires - Reflector wide flood							Price Category 21
911560.00X.2	D 123, H 181	bakery	3300	33	100	67	on/off
911560.00X.2.76	D 123, H 181	bakery	3300	33	100	67	DALI
911546.00X	D 123, H 181	fresh meat	2050	33	62	67	on/off
911546.00X.76	D 123, H 181	fresh meat	2050	33	62	67	DALI
911553.00X	D 123, H 181	meat +	2150	33	65	67	on/off
911553.00X.76	D 123, H 181	meat +	2150	33	65	67	DALI



Accessories:
Page 285



Pendant luminaires | DEECOS P maxi - Food optic lens

Type of protection: IP 20

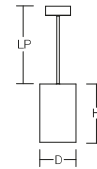
Protection class: I

Impact protection: IK06

Suspension Length: 2000 mm

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. With optical assembly polycarbonate lens and special food LED. Transparent suspension cable 2 m, can be shortened. Canopy made of powder-coated sheet steel with magnetic attachment.

Available colours (X): 2 = white, 3 = black, 4 = silver



Food LED light colours show food in its best light:

- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Pendant luminaires - Spot lens							
911561.00X.2	D 123, H 181	bakery	2950	33	89	17	on/off
911561.00X.2.76	D 123, H 181	bakery	2950	33	89	17	DALI
911547.00X	D 123, H 181	fresh meat	1800	33	55	17	on/off
911547.00X.76	D 123, H 181	fresh meat	1800	33	55	17	DALI
911554.00X	D 123, H 181	meat +	1900	33	58	17	on/off
911554.00X.76	D 123, H 181	meat +	1900	33	58	17	DALI
Pendant luminaires - Medium lens							
911562.00X.2	D 123, H 181	bakery	2850	33	86	35	on/off
911562.00X.2.76	D 123, H 181	bakery	2850	33	86	35	DALI
911548.00X	D 123, H 181	fresh meat	1750	33	53	35	on/off
911548.00X.76	D 123, H 181	fresh meat	1750	33	53	35	DALI
911555.00X	D 123, H 181	meat +	1850	33	56	35	on/off
911555.00X.76	D 123, H 181	meat +	1850	33	56	35	DALI
Pendant luminaires - Flood lens							
911563.00X.2	D 123, H 181	bakery	2900	33	88	44	on/off
911563.00X.2.76	D 123, H 181	bakery	2900	33	88	44	DALI
911549.00X	D 123, H 181	fresh meat	1800	33	55	44	on/off
911549.00X.76	D 123, H 181	fresh meat	1800	33	55	44	DALI
911556.00X	D 123, H 181	meat +	1900	33	58	44	on/off
911556.00X.76	D 123, H 181	meat +	1900	33	58	44	DALI

Accessories:
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The application image shows:
DEECOS S
DEECOS P

Accessories | DEECOS P micro



Diffuser			Price Category 21
982802.000	D 49, H 3	Safety glass, clear.	
982802.010	D 49, H 3	Safety glass, satin finish.	



Anti-glare honeycomb louvre			Price Category 21
982801.003	D 51, H 3	Aluminium, anodised matt black.	



Interchangeable plastic rings			Price Category 21
982806.002	D 57, H 16	White plastic ring for reflector.	
982807.002	D 57, H 16	White plastic ring for lens.	



Interchangeable optics			Price Category 21
982804.003	D 57, H 34	Spot lens, narrow beam	
982804.013	D 57, H 34	Medium lens, medium beam	
982804.023	D 57, H 34	Wide flood lens, very wide beam	
982805.003	D 57, H 34	Lens with oval light distribution for corridor	
982803.003	D 57, H 34	Reflector spot, narrow beam	
982803.013	D 57, H 34	Reflector flood, wide beam	





Accessories | DEECOS P mini

Available colours (X): 2 = white, 3 = black, 4 = silver



Diffuser

Price Category 21

982370.000	D 74, H 3	Safety glass, clear.
982370.010	D 74, H 3	Safety glass, satin finish.



Decorative glasses

Price Category 21

982647.002	D 87, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.
982648.002	D 87, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.



Anti-glare honeycomb louvre

Price Category 21

982371.003	D 74, H 3	Aluminium, anodised matt black.
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Interchangeable plastic rings

Price Category 21

982419.002	D 82, H 20	White plastic ring for reflector.
982421.002	D 82, H 31	White plastic ring for lens.



Interchangeable optics

Price Category 21

982368.003	D 82, H 55	Reflector spot, narrow beam
982368.013	D 82, H 55	Reflector medium, medium beam
982368.023	D 82, H 55	Reflector flood, wide beam
982368.033	D 82, H 55	Reflector wide flood, very wide beam
982369.003	D 82, H 55	Spot lens, narrow beam
982369.013	D 82, H 55	Medium lens, medium beam
982369.023	D 82, H 55	Flood lens, wide beam
982369.033	D 82, H 55	Extra wide flood lens, extremely wide beam
982369.043	D 82, H 55	Lens with oval light distribution for corridor



Decorative cylinder DEECOS P tube

Price Category 21

982672.00X	D 95, H 500	Decorative cylinder extension
982673.00X	D 95, H 750	Decorative cylinder extension
982674.00X	D 95, H 1000	Decorative cylinder extension

Accessories | DEECOS P maxi


Diffuser
Price Category 21

982374.000	D 111, H 3	Safety glass, clear.
982374.010	D 111, H 3	Safety glass, satin finish.


Decorative glasses
Price Category 21

982649.002	D 123, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.
982650.002	D 123, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.


Anti-glare honeycomb louvre
Price Category 21

982375.003	D 111, H 3	Aluminium, anodised matt black.
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Interchangeable plastic rings
Price Category 21

982420.002	D 118, H 20	White plastic ring for reflector.
982422.002	D 118, H 33	White plastic ring for lens.


Interchangeable optics
Price Category 21

982372.003	D 118, H 83	Reflector spot, narrow beam
982372.013	D 118, H 83	Reflector medium, medium beam
982372.023	D 118, H 83	Reflector flood, wide beam
982372.033	D 118, H 83	Reflector wide flood, very wide beam
982373.003	D 118, H 83	Spot lens, narrow beam
982373.013	D 118, H 83	Medium lens, medium beam
982373.023	D 118, H 83	Flood lens, wide beam





DALI



TOLEDO FLAT

Pendant luminaires

ARCHITECTURE

- **Design-oriented:** Flat cylindrical LED pendant luminaire in three sizes.
- **Reduced:** Very low installation height.

LIGHTING DESIGN

- **Homogenous:** Diffuser made of non-yellowing plastic (PMMA), opal.
- **Combinable:** Mounting rings for retrofitting a fabric lampshade available as accessory.

INSTALLATION

- **Easy installation:** Easy installation with transparent and adjustable 2 m suspension cable and canopy.
- **Applicable:** Corridors, side rooms, hotels, restaurants, conference rooms, private rooms.



Further luminaires of this series, see:

Indoor lighting | Recessed downlights
Indoor lighting | Recessed modular luminaires
Indoor lighting | Surface mounted downlights
Indoor lighting | Fabric lampshade luminaires

Pendant luminaires | TOLEDO FLAT

Type of protection: IP 20

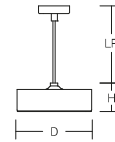
Protection class: I

Impact protection: IK06

Suspension Length: 2000 mm

Cylinder housing sheet steel, powder coated. Housing: die cast aluminium and sheet steel, powder-coated. Bezel ring: die-cast aluminium, powder coated. Light guide and diffuser made of non-yellowing PMMA, opal matt. Transparent suspension cable 2 m, can be shortened. Canopy: sheet steel, powder coated.

Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	Price Category 21
Pendant luminaires							
Diffuser: plastic, opal							
Diameter D 192 mm							
901684.002	D 192, H 83	830	780	7,7	101	on/off	
901684.002.76	D 192, H 83	830	780	7,7	101	DALI	
901684.002.1	D 192, H 83	840	840	7,7	109	on/off	
901684.002.1.76	D 192, H 83	840	840	7,7	109	DALI	
Diameter D 257 mm							
901685.002	D 257, H 89	830	1650	17	97	on/off	
901685.002.76	D 257, H 89	830	1650	17	97	DALI	
901685.002.1	D 257, H 89	840	1800	17	106	on/off	
901685.002.1.76	D 257, H 89	840	1800	17	106	DALI	
Diameter D 319 mm							
901686.002	D 319, H 89	830	2150	22	98	on/off	
901686.002.76	D 319, H 89	830	2150	22	98	DALI	
901686.002.1	D 319, H 89	840	2250	22	102	on/off	
901686.002.1.76	D 319, H 89	840	2250	22	102	DALI	

Comparison LED vs. conventional lamps

LED 7,7 W ≈

1 x 18 W TC-D (26 W Psys)

LED 17 W ≈

2 x 18 W TC-D (52 W Psys)

LED 22 W ≈

2 x 26 W TC-D (68 W Psys)



Accessories | Mounting ring for fabric lamp shades

Retrofittable holder for a tool-free mounting of a lamp shade.

Ring metal powder coated. With M4 threaded and knurled nuts plastic.

Mounting ring for fabric lamp shades	Price Category 21
982387.002 D 204, H 10	For TOLEDO FLAT round D 192 For mounting the lamp shade TOLEDO FLATLINER 242
982388.002 D 270, H 10	For TOLEDO FLAT round D 257 For mounting the lamp shade TOLEDO FLATLINER 307
982389.002 D 331, H 10	For TOLEDO FLAT round D 319 For mounting the lamp shade TOLEDO FLATLINER 369



Further luminaires of this series
and a colour chart with more than 50
available colours, see:
Indoor Lighting: Fabric lampshade luminaires





FLAT POLYMER® KREIS SLIM

Pendant luminaires

ARCHITECTURE

- **Versatile:** Surface-mounted and suspended luminaires.
- **Long service life:** Diffuser made of non-yellowing PMMA or impact resistant PC.

LIGHTING DESIGN

- **Uniform:** Homogeneous and smooth light distribution.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.

INSTALLATION

- **Easy installation:** Quick and easy to install.
- **Straightforward:** Patented fastening system for opening the luminaire(s) without tools.
- **Standard:** Suitable for through-wiring.



Further luminaires of this series, see:
Indoor lighting | Ceiling and wall luminaires - decorative

Pendant luminaires | FLAT POLYMERO KREIS SLIM

Type of protection: IP 40

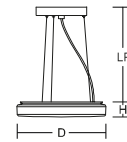
Protection class: I

Impact protection: IK03 (PMMA), IK10 (polycarbonate)

Suspension Length: 200-1300 mm, 350-1300 mm

Base and canopy: metal, powder-coated, white, Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof, Diffuser fastening: patented push system, Canopy Ø 205 mm, h 35 mm, 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency [#] [lm/W]	Lighting control
Pendant luminaires						
Diffuser: plastic (PMMA)						
Diameter D 360 mm, LP 200-1300 mm						
312089.002.1 */**	D 360, H 61	830	1900	19	100	Phase-cut
312089.002.1.76 */***	D 360, H 61	830	1900	19	100	DALI
312089.002.3 */**	D 360, H 61	840	2000	19	105	Phase-cut
312089.002.3.76 */***	D 360, H 61	840	2100	19	111	DALI
Diameter D 460 mm, LP 200-1300 mm						
312241.002.1 */**	D 460, H 68	830	2600	24	108	Phase-cut
312241.002.1.76 */***	D 460, H 68	830	3000	32	94	DALI
312241.002.3 */**	D 460, H 68	840	2750	24	115	Phase-cut
312241.002.3.76 */***	D 460, H 68	840	3150	31	102	DALI
Diameter D 515 mm, LP 350-1300 mm						
312091.002.1 */**	D 515, H 69	830	3100	29	107	Phase-cut
312091.002.1.76 */***	D 515, H 69	830	3700	40	93	DALI
312091.002.3 */**	D 515, H 69	840	3400	28	121	Phase-cut
312091.002.3.76 */***	D 515, H 69	840	3800	38	100	DALI
Diffuser: plastic (polycarbonate)						
Diameter D 360 mm, LP 200-1300 mm						
312089.002.2 */**	D 360, H 61	830	2000	19	105	Phase-cut
312089.002.2.76 */***	D 360, H 61	830	2000	19	105	DALI
312089.002.4 */**	D 360, H 61	840	2050	19	108	Phase-cut
312089.002.4.76 */***	D 360, H 61	840	2150	19	113	DALI
Diameter D 460 mm, LP 200-1300 mm						
312241.002.2 */**	D 460, H 68	830	2850	24	119	Phase-cut
312241.002.2.76 */***	D 460, H 68	830	3300	32	103	DALI
312241.002.4 */**	D 460, H 68	840	3000	24	125	Phase-cut
312241.002.4.76 */***	D 460, H 68	840	3450	31	111	DALI
Diameter D 515 mm, LP 350-1300 mm						
312091.002.2 */**	D 515, H 69	830	3400	29	117	Phase-cut
312091.002.2.76 */***	D 515, H 69	830	4050	40	101	DALI
312091.002.4 */**	D 515, H 69	840	3500	28	125	Phase-cut
312091.002.4.76 */***	D 515, H 69	840	4150	38	109	DALI

* With mains voltage LED | ** Suitable for phase cut dimming (10-100%) | *** DALI dimmable (10-100%)



Applies to versions with .76

Comparison LED vs. conventional lamps

LED 19 W ≈

2 x 26 W TC-D (68 W Psys)

LED 24 W ≈

3 x 26 W TC-D (102 W Psys)

LED 28 / 29 / 31 / 32 / 38 / 40 W ≈

4 x 26 W TC-D (112 W Psys)

Pendant luminaires | FLAT POLYMERO KREIS XXL

Type of protection: IP 40

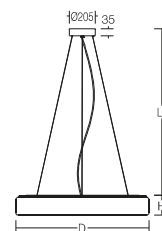
Protection class: I

Impact protection: IK07 (PMMA), IK10 (polycarbonate)

Suspension Length: 600-1300 mm

Base and canopy: metal, powder-coated, white, Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof, Diffuser fastening: sash lock, Canopy Ø 205 mm, h 35 mm, 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency [#] [lm/W]	Lighting control
Pendant luminaires						
Diffuser: plastic (PMMA) D 1040 mm						
311697.002.76	D 1040, H 150	830	9600	100	96	DALI
311697.002.1.76	D 1040, H 150	840	10400	100	104	DALI
Diffuser: plastic (polycarbonate) D 1040 mm						
311697.002.2.76	D 1040, H 150	830	10400	100	104	DALI
311697.002.3.76	D 1040, H 150	840	11300	100	113	DALI

Comparison LED vs. conventional lamps

LED 100 W ≈

4 x 55 W TC-L (232 W Psys)



FLAT POLYMERO®

Pendant luminaires

ARCHITECTURE

- **Versatile:** Surface-mounted and suspended luminaires.
- **Long service life:** Diffuser made of non-yellowing PMMA or impact resistant PC.

LIGHTING DESIGN

- **Uniform:** Homogeneous and smooth light distribution.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.

INSTALLATION

- **Easy installation:** Quick and easy to install.
- **Straightforward:** Patented fastening system for opening the luminaire(s) without tools.
- **Standard:** Suitable for through-wiring.



Further luminaires of this series, see:
Indoor lighting | Ceiling and wall luminaires - decorative

Pendant luminaires | FLAT POLYMERO

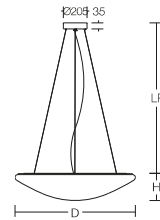
Type of protection: **IP 40**

Protection class: **I**

Impact protection: **IK03 (PMMA), IK10 (polycarbonate)**

Suspension Length: **200-1300 mm, 350-1300 mm**

Base and canopy: metal, powder-coated, white. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: patented push system. Canopy Ø 205 mm, h 35 mm. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: **2 = white**


Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency [#] [lm/W]	Lighting control
Pendant luminaires						
Diffuser: plastic (PMMA)						
D 360 mm, LP 200-1300 mm						
311974.002.3 */**	D 360, H 100	830	1850	19	97	Phase-cut
311974.002.3.76 */***	D 360, H 100	830	1850	19	97	DALI
311974.002.1 */**	D 360, H 100	840	1950	19	103	Phase-cut
311974.002.1.76 */***	D 360, H 100	840	2050	19	108	DALI
D 460 mm, LP 200-1300 mm						
312245.002.3 */**	D 460, H 120	830	2750	24	115	Phase-cut
312245.002.3.76 */***	D 460, H 120	830	3200	32	100	DALI
312245.002.1 */**	D 460, H 120	840	2850	24	119	Phase-cut
312245.002.1.76 */***	D 460, H 120	840	3350	31	108	DALI
D 515 mm, LP 350-1300 mm						
312093.002.3 */**	D 515, H 150	830	3200	29	110	Phase-cut
312093.002.3.76 */***	D 515, H 150	830	3750	40	94	DALI
312093.002.1 */**	D 515, H 150	840	3450	28	123	Phase-cut
312093.002.1.76 */***	D 515, H 150	840	3800	38	100	DALI
D 620 mm, LP 350-1300 mm						
312097.002.3 */**	D 620, H 160	830	3200	29	110	Phase-cut
312097.002.3.76 */***	D 620, H 160	830	3750	40	94	DALI
312097.002.1 */**	D 620, H 160	840	3450	28	123	Phase-cut
312097.002.1.76 */***	D 620, H 160	840	3800	38	100	DALI
Diffuser: plastic (polycarbonate)						
D 360 mm, LP 200-1300 mm						
311974.002.4 */**	D 360, H 100	830	1900	19	100	Phase-cut
311974.002.4.76 */***	D 360, H 100	830	1900	19	100	DALI
311974.002.2 */**	D 360, H 100	840	2000	19	105	Phase-cut
311974.002.2.76 */***	D 360, H 100	840	2100	19	111	DALI
D 460 mm, LP 200-1300 mm						
312245.002.4 */**	D 460, H 120	830	2950	24	123	Phase-cut
312245.002.4.76 */***	D 460, H 120	830	3450	32	108	DALI
312245.002.2 */**	D 460, H 120	840	2950	24	123	Phase-cut
312245.002.2.76 */***	D 460, H 120	840	3450	31	111	DALI
D 515 mm, LP 350-1300 mm						
312093.002.4 */**	D 515, H 150	830	3250	29	112	Phase-cut
312093.002.4.76 */***	D 515, H 150	830	3800	40	95	DALI
312093.002.2 */**	D 515, H 150	840	3500	28	125	Phase-cut
312093.002.2.76 */***	D 515, H 150	840	3850	38	101	DALI
D 620 mm, LP 350-1300 mm						
312097.002.4 */**	D 620, H 160	830	3250	29	112	Phase-cut
312097.002.4.76 */***	D 620, H 160	830	3850	40	96	DALI
312097.002.2 */**	D 620, H 160	840	3500	28	125	Phase-cut
312097.002.2.76 */***	D 620, H 160	840	3900	38	103	DALI

* With mains voltage LED | ** Suitable for phase cut dimming (10-100%) | *** DALI dimmable (10-100%)

Pendant luminaires | FLAT POLYMERO XXL

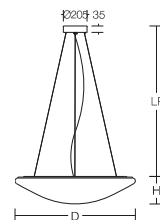
Type of protection: **IP 40**

Protection class: **I**

Impact protection: **IK10**

Suspension Length: **600-1300 mm**

Base and canopy: metal, powder-coated, white. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: sash lock. Canopy Ø 205 mm, h 35 mm. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: **2 = white**


Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency [#] [lm/W]	Lighting control
Pendant luminaires						
Diffuser: plastic (PMMA) D 1040 mm						
311696.002.76	D 1040, H 230	830	9450	100	95	DALI
311696.002.1.76	D 1040, H 230	840	10300	100	103	DALI
Diffuser: plastic (polycarbonate) D 1040 mm						
311696.002.2.76	D 1040, H 230	830	10000	100	100	DALI
311696.002.3.76	D 1040, H 230	840	10900	100	109	DALI

Comparison LED vs. conventional lamps

LED 100 W ≈

4 x 55 W TC-L (232 W Psys)



The application image shows:
TOLEDO FLATLINER



FLATLINER SLIM
296-301

TOLEDO FLAT
302-307

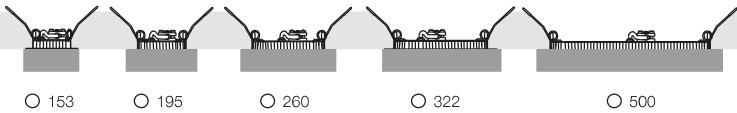
TOLEDO FLATLINER
308-313

FLATLINER
314-316

Ceiling luminaires

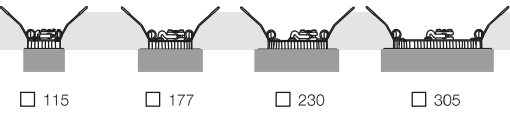
TOLEDO FLAT round

H 60



TOLEDO FLAT square

H 60



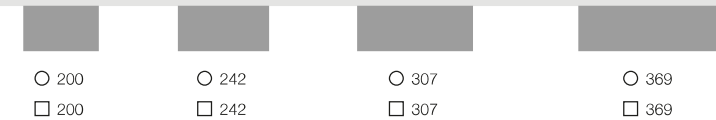
FLATLINER SLIM

H 60



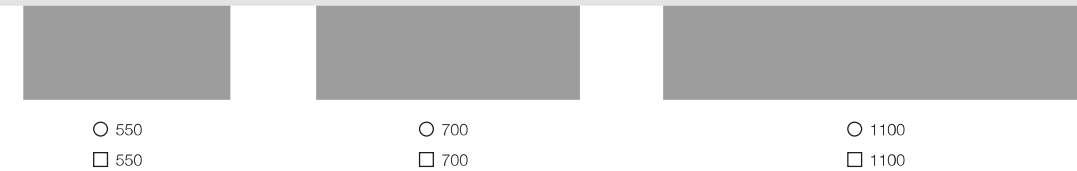
TOLEDO FLATLINER

H 120



FLATLINER

H 250

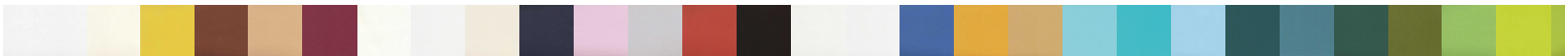


TOLEDO FLATLINER

H 300



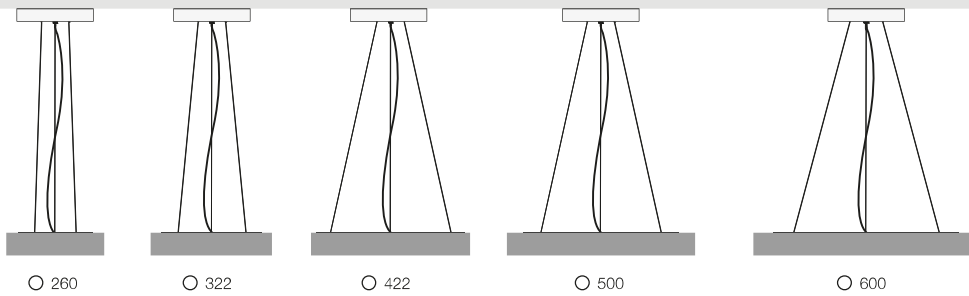
Colour options of the chintz lampshades



Pendant luminaires

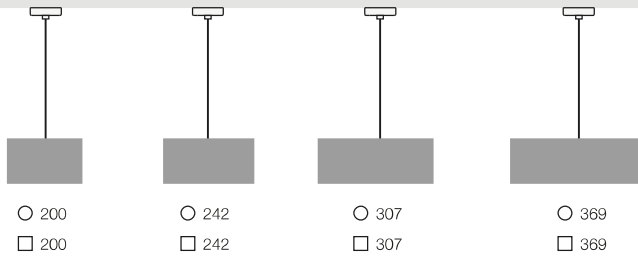
FLATLINER SLIM

H 60



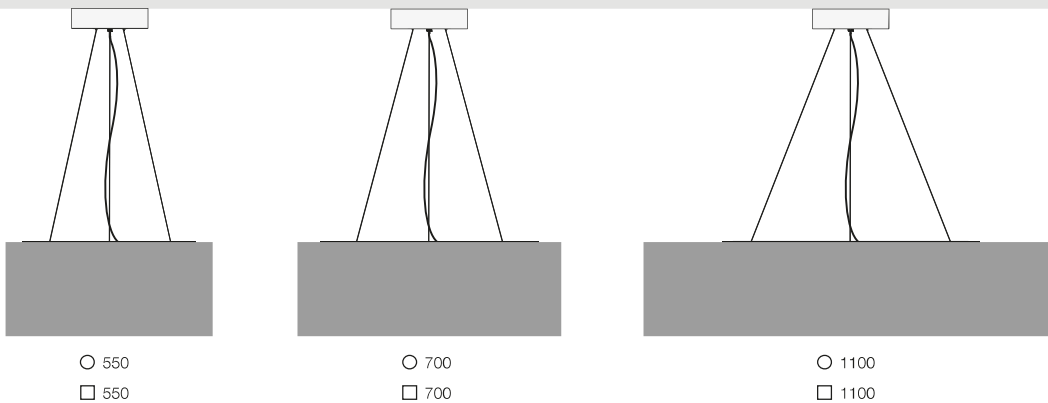
TOLEDO FLATLINER

H 120



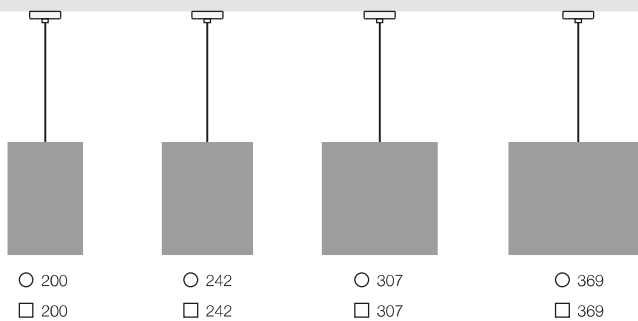
FLATLINER

H 250



TOLEDO FLATLINER

H 300





DALI



FLATLINER SLIM

Ceiling luminaires, Pendant luminaires

ARCHITECTURE

- **Design-oriented:** Decorative fabric lampshade luminaire for room design.
- **Individual:** More than 50 different standard colours to choose for the fabric lampshade.
- **Advantageous:** Very flat design with a height of only 60 mm.

LIGHTING DESIGN

- **Anti-glare:** Particularly homogeneous, soft and glare-free light thanks to the use of AC boards.
- **Standard:** Includes satin-finish diffuser.
- **Varied:** Material of fabric lampshade chintz or optionally also flame retardant fabric in compliance with B1.

INSTALLATION

- **Optimum:** Ceiling or pendant mounting.
- **Easy installation:** Fabric lampshades can be fitted to the basic luminaire without tools.





Applies to
versions
with .76

Comparison LED vs. conventional lamps

LED 11 / 12 / 13 W ≈
2 x 18 W TC-D (52 W Psys)



Comparison LED vs. conventional lamps

LED 19 W ≈
2 x 26 W TC-D (68 W Psys)



Comparison LED vs. conventional lamps

LED 24 / 31 W ≈
2 x 26 W TC-D (68 W Psys)



Ceiling luminaires | FLATLINER SLIM

Type of protection: IP 20

Protection class: I

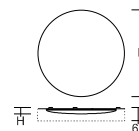
Basic luminaire: Base: metal, white, powder-coated. Fabric lampshade and diffuser can be assembled without the use of tools.

Fabric lampshade with classic chintz fabric. Covering surface Chintz, various fabric colors available. Diffuser made of plastic satin finish.

Modular design: The fabric lampshades need to be ordered separately for each luminaire. Color code for the fabric lampshade must be specified in the order.

Available colours (Y): Color code overview see page 317.

Please be aware of possible increased freight charges for deliveries outside of Germany.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment FLATLINER SLIM 260						Price Category 21
312280.002 */**	D 255, H 34	830	950	12	79	Phase-cut
312280.002.76 */***	D 255, H 34	830	950	12	79	DALI
312280.002.1 */**	D 255, H 34	840	1050	11	95	Phase-cut
312280.002.1.76 */***	D 255, H 34	840	1050	13	81	DALI

* With mains voltage LED | ** Suitable for phase cut dimming (10-100%) | *** DALI dimmable (10-100%)

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshades FLATLINER SLIM 260			Price Category 21
982555.Y	D 260, H 60	Chintz lampshade with satin finish diffuser made of plastic	

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment FLATLINER SLIM 322						Price Category 21
312281.002 */**	D 317, H 34	830	1600	19	84	Phase-cut
312281.002.76 */***	D 317, H 34	830	1600	19	84	DALI
312281.002.1 */**	D 317, H 34	840	1700	19	89	Phase-cut
312281.002.1.76 */***	D 317, H 34	840	1700	19	89	DALI

* With mains voltage LED | ** Suitable for phase cut dimming (10-100%) | *** DALI dimmable (10-100%)

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshades FLATLINER SLIM 322			Price Category 21
982556.Y	D 322, H 60	Chintz lampshade with satin finish diffuser made of plastic	

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment FLATLINER SLIM 422						Price Category 21
312283.002 */**	D 418, H 34	830	1900	24	79	Phase-cut
312283.002.76 */***	D 418, H 34	830	2200	31	71	DALI
312283.002.1 */**	D 418, H 34	840	2050	24	85	Phase-cut
312283.002.1.76 */***	D 418, H 34	840	2400	31	77	DALI

* With mains voltage LED | ** Suitable for phase cut dimming (10-100%) | *** DALI dimmable (10-100%)

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshades FLATLINER SLIM 422			Price Category 21
982557.Y	D 422, H 60	Chintz lampshade with satin finish diffuser made of plastic	

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment FLATLINER SLIM 500						Price Category 21
312285.002 *	D 496, H 34	830	2300	29	79	Phase-cut
312285.002.76 */**	D 496, H 34	830	2750	38	72	DALI
312285.002.1 *	D 496, H 34	840	2500	28	89	Phase-cut
312285.002.1.76 */**	D 496, H 34	840	3000	38	79	DALI

* With mains voltage LED | ** DALI dimmable (10-100%) Indication of luminaire flux when using the white fabric lampshade.

Comparison LED vs. conventional lamps

LED 28 / 29 / 38 W ≈
3 x 26 W TC-D (102 W P_{sys})

Chintz fabric lampshades FLATLINER SLIM 500						Price Category 21
982558.Y	D 500, H 60	Chintz lampshade with satin finish diffuser made of plastic				



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment FLATLINER SLIM 600						Price Category 21
312287.002 *	D 596, H 34	830	2300	29	79	Phase-cut
312287.002.76 */**	D 596, H 34	830	2750	38	72	DALI
312287.002.1 *	D 596, H 34	840	2500	28	89	Phase-cut
312287.002.1.76 */**	D 596, H 34	840	3000	38	79	DALI

* With mains voltage LED | ** DALI dimmable (10-100%) Indication of luminaire flux when using the white fabric lampshade.

Comparison LED vs. conventional lamps

LED 28 / 29 / 38 W ≈
3 x 26 W TC-D (102 W P_{sys})

Chintz fabric lampshades FLATLINER SLIM 600						Price Category 21
982559.Y	D 600, H 60	Chintz lampshade with satin finish diffuser made of plastic				



Colour chart Chintz lampshades						Price Category 21
W06630	L 150, B 65, H 40	Chintz lampshades are available in more than 50 different colours.				



Color code overview for
the fabric lampshades
see page 317





Applies to
versions
with .76

Comparison LED vs. conventional lamps

LED 11 / 12 / 13 W ≈
2 x 18 W TC-D (52 W Psys)



Comparison LED vs. conventional lamps

LED 19 W ≈
2 x 26 W TC-D (68 W Psys)



Comparison LED vs. conventional lamps

LED 24 / 31 W ≈
2 x 26 W TC-D (68 W Psys)



Pendant luminaires | FLATLINER SLIM

Type of protection: IP 20

Protection class: I

Suspension Length: 200-1300 mm

Basic luminaire: Base and canopy: metal, powder-coated, white, 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Transparent connecting cable.

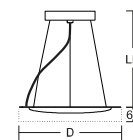
Fabric lampshade and diffuser can be assembled without the use of tools.

Fabric lampshade with classic chintz fabric. Covering surface Chintz, various fabric colors available. Diffuser made of plastic satin finish.

Modular design: The fabric lampshades need to be ordered separately for each luminaire. Color code for the fabric lampshade must be specified in the order.

Available colours (Y): Color code overview see page 317.

Please be aware of possible increased freight charges for deliveries outside of Germany.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment FLATLINER SLIM 260						Price Category 21
312289.002 */**	D 255, H 34	830	950	12	79	Phase-cut
312289.002.76 */***	D 255, H 34	830	950	12	79	DALI
312289.002.1 */**	D 255, H 34	840	1050	11	95	Phase-cut
312289.002.1.76 */***	D 255, H 34	840	1050	13	81	DALI

* With mains voltage LED | ** Suitable for phase cut dimming (10-100%) | *** DALI dimmable (10-100%)

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshades FLATLINER SLIM 260			Price Category 21
982555.Y	D 260, H 60	Chintz lampshade with satin finish diffuser made of plastic	

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment FLATLINER SLIM 322						Price Category 21
312282.002 */**	D 317, H 34	830	1600	19	84	Phase-cut
312282.002.76 */***	D 317, H 34	830	1600	19	84	DALI
312282.002.1 */**	D 317, H 34	840	1700	19	89	Phase-cut
312282.002.1.76 */***	D 317, H 34	840	1700	19	89	DALI

* With mains voltage LED | ** Suitable for phase cut dimming (10-100%) | *** DALI dimmable (10-100%)

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshades FLATLINER SLIM 322			Price Category 21
982556.Y	D 322, H 60	Chintz lampshade with satin finish diffuser made of plastic	

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment FLATLINER SLIM 422						Price Category 21
312284.002 */**	D 418, H 34	830	1900	24	79	Phase-cut
312284.002.76 */***	D 418, H 34	830	2200	31	71	DALI
312284.002.1 */**	D 418, H 34	840	2050	24	85	Phase-cut
312284.002.1.76 */***	D 418, H 34	840	2400	31	77	DALI

* With mains voltage LED | ** Suitable for phase cut dimming (10-100%) | *** DALI dimmable (10-100%)

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshades FLATLINER SLIM 422			Price Category 21
982557.Y	D 422, H 60	Chintz lampshade with satin finish diffuser made of plastic	

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment FLATLINER SLIM 500						Price Category 21
312286.002 *	D 496, H 34	830	2300	29	79	Phase-cut
312286.002.76 */**	D 496, H 34	830	2750	38	72	DALI
312286.002.1 *	D 496, H 34	840	2500	28	89	Phase-cut
312286.002.1.76 */**	D 496, H 34	840	3000	38	79	DALI

* With mains voltage LED | ** Suitable for phase cut dimming (10-100%) | *** DALI dimmable (10-100%)
 Indication of luminaire flux when using the white fabric lampshade.

Comparison LED vs. conventional lamps

LED 28 / 29 / 38 W ≈
 3 x 26 W TC-D (102 W P_{sys})

Chintz fabric lampshades FLATLINER SLIM 500						Price Category 21
982558.Y	D 500, H 60	Chintz lampshade with satin finish diffuser made of plastic				



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment FLATLINER SLIM 600						Price Category 21
312288.002 *	D 596, H 34	830	2300	29	79	Phase-cut
312288.002.76 */**	D 596, H 34	830	2750	38	72	DALI
312288.002.1 *	D 596, H 34	840	2500	28	89	Phase-cut
312288.002.1.76 */**	D 596, H 34	840	3000	38	79	DALI

* With mains voltage LED | ** Suitable for phase cut dimming (10-100%) | *** DALI dimmable (10-100%)
 Indication of luminaire flux when using the white fabric lampshade.

Comparison LED vs. conventional lamps

LED 28 / 29 / 38 W ≈
 3 x 26 W TC-D (102 W P_{sys})

Chintz fabric lampshades FLATLINER SLIM 600						Price Category 21
982559.Y	D 600, H 60	Chintz lampshade with satin finish diffuser made of plastic				



Colour chart Chintz lampshades						Price Category 21
W06630	L 150, B 65, H 40	Chintz lampshades are available in more than 50 different colours.				



Color code overview for
 the fabric lampshades
 see page 317





Tunable White



HCL ready

DALI



Casambi
smart+
free



Master-Slave



Bluetooth®
Mesh



Corridor
Function



Plug & Play



IP54



TOLEDO FLAT

Recessed downlights with decorative fabric lampshade (accessories)

ARCHITECTURE

- **Design-oriented:** Minimalist design. Shallow recessed depth.
- **Protected:** High protection type IP 54 on the room side.
- **Advantageous:** Tunable White versions are predestined for use in the context of Human Centric Lighting (HCL) in combination with RZB light management systems.
- **Safe:** Also available as an emergency luminaire in accordance with EN 60598-2-22.
- **Applicable:** Corridors, side rooms, hotels, restaurants, conference rooms, private rooms.

LIGHTING DESIGN

- **Homogenous:** Diffuser made of non-yellowing plastic (PMMA) opal or microprismatic.
- **Variable:** Tunable white dynamically adjustable from 2700 K to 6500 K.
- **Optimum:** LED rated life 50,000 h (L80/B50).
- **Dynamic:** Versions with connected HF motion detector can be configured through app via Bluetooth® or buttons.
- **Combinable:** Retrofittable decorative chintz lampshades as accessory.

INSTALLATION

- **Easy installation:** Simple mounting spring system for installation without tools.
- **Straightforward:** Easy installation with Plug & Play plug connection.
- **Expandable:** Suitable for through-wiring with separately available accessories.
- **Connected:** Versions with Casambi smart+free Bluetooth® control system for wireless network.
- **Smart Lighting:** HF motion detector with DALI and Bluetooth® interfaces for switching, dimming and networking from individual luminaires up to complex light installations.



Further luminaires of this series, see:

Indoor lighting | Recessed modular luminaires
Indoor lighting | Recessed mounted downlights
Indoor lighting | Surface mounted downlights
Indoor lighting | Pendant luminaires

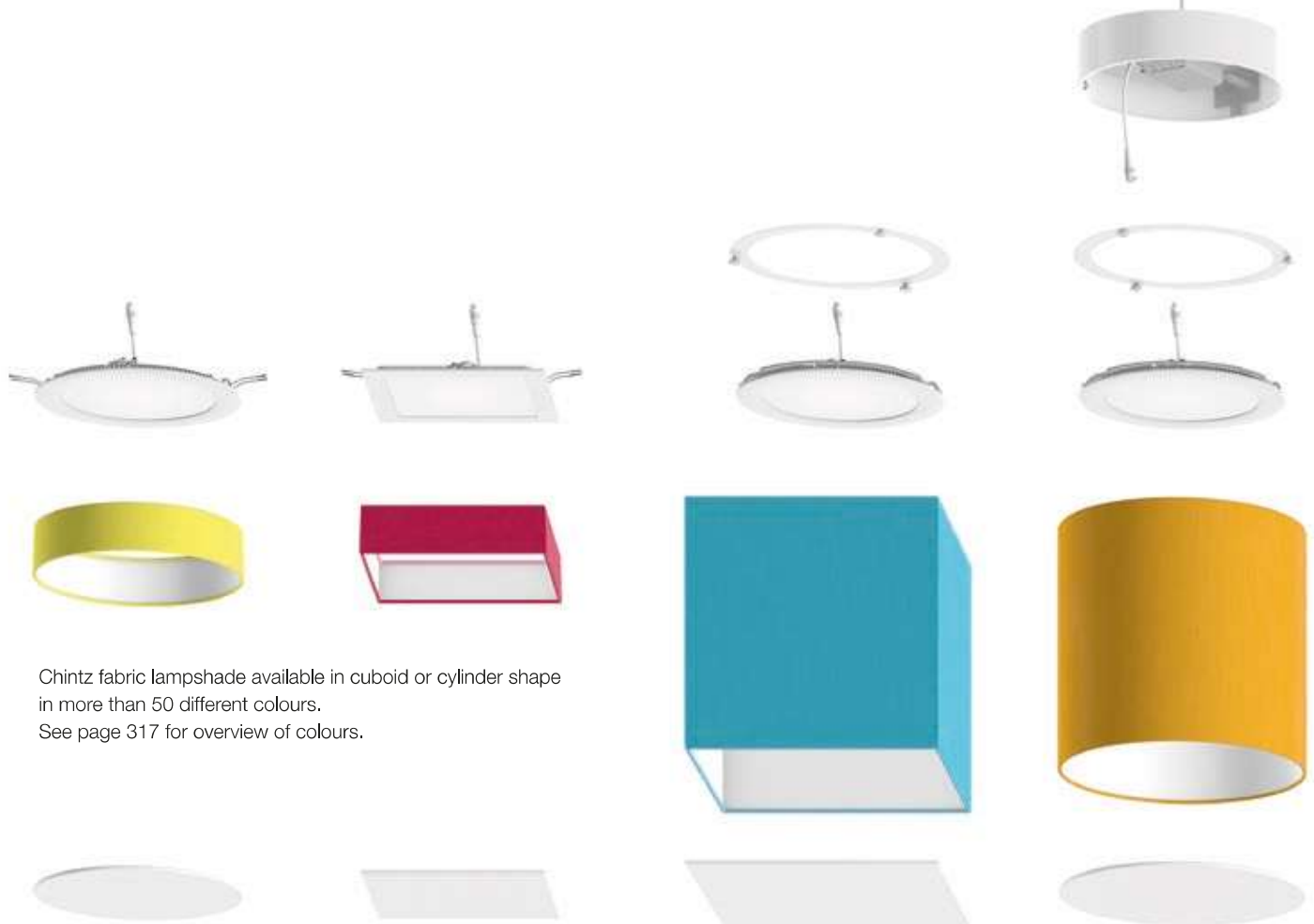
TOLEDO FLAT



TOLEDO FLATLINER

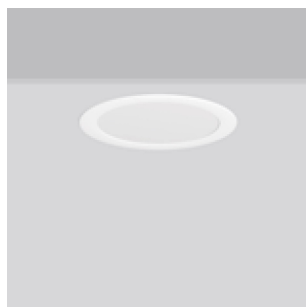


Basic luminaire for ceiling or pendant mounting.



Chintz fabric lampshade available in cuboid or cylinder shape in more than 50 different colours. See page 317 for overview of colours.

Satin finish diffusers made of polycarbonate are optionally available.



Recessed downlights | TOLEDO FLAT round

Type of protection: **IP 54**

Protection class: II

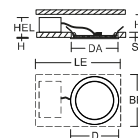
Ceiling thickness S: 1-20 mm

Impact protection: IK06

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA). Ceiling installation with spring system. Mounting depth depends on ceiling strength. Including separate LED converter with connecting cable 250 mm.

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 5 W ≈

1 x 10 W TC-D (16 W Psys)

LED 7,7 W ≈

1 x 18 W TC-D (26 W Psys)

LED 17 / 19 W ≈

1 x 32 W TC-TEL (36 W Psys)

LED 22 / 24 W ≈

2 x 26 W TC-D (68 W Psys)

LED 30 W ≈

3 x 26 W TC-D (102 W Psys)



This luminaire is also available as self-contained and/or emergency luminaire for central battery systems according to EN 60598 2-22 – further information page 11.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency ^a [lm/W]	Lighting control	Price Category 21
Recessed downlights							
Diffuser: plastic, opal							
Ceiling cut out DA 128 mm							
901451.002 .Q	D 148, H 2, HE 27-53	830	470	5	94	110 on/off	✓
901451.002.76	D 148, H 2, HE 31-53	830	470	5	94	110 DALI	
901451.002.1	D 148, H 2, HE 27-53	840	530	5	106	110 on/off	✓
901451.002.1.76	D 148, H 2, HE 31-53	840	530	5	106	110 DALI	
Ceiling cut out DA 170 mm							
901452.002 .Q	D 190, H 2, HE 27-53	830	780	7,7	101	110 on/off	✓
901452.002.76	D 190, H 2, HE 31-53	830	780	7,7	101	110 DALI	
901452.002.1 .Q	D 190, H 2, HE 27-53	840		7,7	109	110 on/off	✓
901452.002.1.76	D 190, H 2, HE 31-53	840		7,7	109	110 DALI	
Ceiling cut out DA 234 mm							
901453.002 .Q	D 255, H 3, HE 30-56	830	1650	17	97	110 on/off	✓
901453.002.76 .Q	D 255, H 3, HE 31-56	830	1650	17	97	110 DALI	
901453.002.1 .Q	D 255, H 3, HE 30-56	840	1800	17	106	110 on/off	✓
901453.002.1.76 .Q	D 255, H 3, HE 31-56	840	1800	17	106	110 DALI	
Tunable White - 2700 K to 6500 K							
901666.002.76	D 255, H 3, HE 30-56	827-865	1700	19	89	110 DALI	
901666.002.730	D 255, H 3, HE 55-75	827-865	1700	19	89	110 smart+free	
Ceiling cut out DA 288 mm							
901484.002 .Q	D 317, H 3, HE 31-54	830	2150	22	98	108 on/off	✓
901484.002.76	D 317, H 3, HE 31-54	830	2150	22	98	108 DALI	
901484.002.1 .Q	D 317, H 3, HE 31-54	840	2250	22	102	108 on/off	✓
901484.002.1.76	D 317, H 3, HE 31-54	840	2250	22	102	108 DALI	
Tunable White - 2700 K to 6500 K							
901667.002.76	D 317, H 3, HE 31-54	827-865	2450	24	104	108 DALI	
901667.002.730	D 317, H 3, HE 55-75	827-865	2350	24	98	108 smart+free	
Ceiling cut out DA 470 mm							
901585.002	D 495, H 6, HE 40-59	830	3550	30	118	113 on/off	
901585.002.76	D 495, H 6, HE 40-59	830	3550	30	118	113 DALI	
901585.002.1	D 495, H 6, HE 40-59	840	3600	30	120	113 on/off	
901585.002.1.76	D 495, H 6, HE 40-59	840	3600	30	120	113 DALI	
Tunable White - 2700 K to 6500 K							
901668.002.76	D 495, H 6, HE 35-55	827-865	3150	30	105	113 DALI	
901668.002.730	D 495, H 6, HE 55-75	827-865	3150	30	105	113 smart+free	

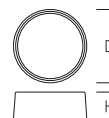
Accessories | Chintz decorative element TOLEDO FLAT round

Fabric shade with classic chintz fabric. Can be retrofitted without tools to the recessed downlight. Various fabric colors available.

Color code must be specified in the order.

Available colour (Y): Color code overview see page 317

Please be aware of possible increased freight charges for deliveries outside of Germany.



without diffuser



with diffuser

Chintz lampshades			Price Category 21
982319.Y	D 153, H 60	Chintz decorative cylinder for TOLEDO FLAT round D 148	
982320.Y	D 195, H 60	Chintz decorative cylinder for TOLEDO FLAT round D 190	
982321.Y	D 260, H 60	Chintz decorative cylinder for TOLEDO FLAT round D 255	
982322.Y	D 322, H 60	Chintz decorative cylinder for TOLEDO FLAT round D 317	
982323.Y	D 500, H 60	Chintz decorative cylinder for TOLEDO FLAT round D 495	
Cannot be fitted with surface mount housing			
Satin finish plastic diffuser (optional)			Price Category 21
Can be installed on the decorative element without any tools			
982324.002	D 151, H 4	Accessories for chintz decorative cylinder D 153	
982325.002	D 193, H 4	Accessories for chintz decorative cylinder D 195	
982326.002	D 258, H 4	Accessories for chintz decorative cylinder D 260	
982327.002	D 320, H 4	Accessories for chintz decorative cylinder D 322	
982328.002	D 498, H 4	Accessories for chintz decorative cylinder D 500	

Colour chart Chintz lampshades

Price Category 21

W06630 Chintz lampshades are available in more than 50 different colours.



Recessed downlights | TOLEDO FLAT round - movement sensor DALI/BT

 Type of protection: IP 20, **IP 54** on room side

Protection class: I

Ceiling thickness S: 1-20 mm

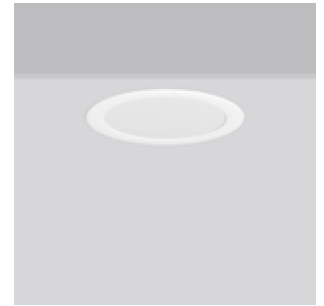
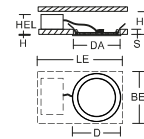
Impact protection: IK06

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Including separate LED converter with connecting cable 250 mm.

Available colour: 2 = white


Function parameters: HF motion detector Bluetooth® DALI

- HF detector 5.8 GHz
- Holding time: 5 sec. - 60 min., adjustable in 13 steps
- Detection angle 120°
- Range: up to 8 m; adjustable in 10% steps.
- Factory setting: holding time 30 seconds, range approx. 6 m, dim level 30%.
- Dim functions: Soft Start, Corridor, Permanent
- Additional functions: create profiles and groups, networking the sensors
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired
- Master-slave: up to three additional Toledo Flat DALI 17 W can be connected
- Brightness sensor without function.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	
Recessed downlights with connected movement sensor adjustable with app via Bluetooth®-DAL							Price Category 21
Ceiling cut out DA 234 mm							
901715.002.19	D 255, H 3, HE 55-76	830	1650	17	98	110	smart+free
901715.002.1.19	D 255, H 3, HE 55-76	840	1800	17	106	109	smart+free

Not suitable for metal ceilings.

Comparison LED vs. conventional lamps
LED 17 W ≈

1 x 32 W TC-TEL (36 W Psys)


**MICAS Autolight App
download now!**
Recessed downlights | TOLEDO FLAT round - movement sensor EASY

 Type of protection: IP 20, **IP 54** on room side

Protection class: I

Ceiling thickness S: 1-20 mm

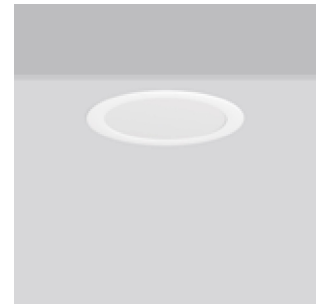
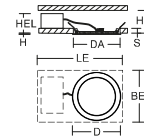
Impact protection: IK06

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Including separate LED converter with connecting cable 250 mm.

Available colour: 2 = white


Function parameters: HF motion detector EASY

- HF detector 5.8 GHz
- Holding time: 10 sec. - 20 min., adjustable in 7 steps.
- Detection angle 120°
- Range: up to 8 m; adjustable in 5 steps.
- Factory setting: holding time 15 minutes, range approx. 6 m.
- Adjustable in control gear box
- Master-slave: up to three additional Toledo Flat on/off 17 W can be connected
- Brightness sensor without function.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	
Recessed downlights with connected movement sensor EASY adjustable with buttons							Price Category 21
Ceiling cut out DA 234 mm							
901453.002.19	D 255, H 3, HE 55-76	830	1650	17	98	110	on/off
901453.002.1.19	D 255, H 3, HE 55-76	840	1800	17	106	109	on/off

Not suitable for metal ceilings.

Comparison LED vs. conventional lamps
LED 17 W ≈

1 x 32 W TC-TEL (36 W Psys)

 Color code overview for
the fabric lampshades
see page 317




Recessed downlights | TOLEDO FLAT square

Type of protection: **IP 54**

Protection class: **II**

Ceiling thickness S: 1-20 mm

Impact protection: **IK06**

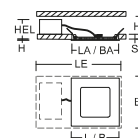
Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Including separate LED converter with connecting cable 250 mm.

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 5 W ≈

1 x 10 W TC-D (16 W Psys)

LED 8 W ≈

1 x 18 W TC-D (26 W Psys)

LED 17 / 19 W ≈

1 x 32 W TC-TEL (36 W Psys)

LED 21 / 24 W ≈

2 x 26 W TC-D (68 W Psys)



This luminaire is also available as self-contained and/or emergency luminaire for central battery systems according to EN 60598 2-22 – further information page 11.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control	Price Category 21
Recessed downlights								
Diffuser: plastic, opal								
Ceiling cut out LA 96 x BA 96 mm								
901485.002	L 110, B 110, H 3, HE 27-56	830	420	5	84	107	on/off	✓
901485.002.76	L 110, B 110, H 3, HE 31-56	830	420	5	84	107	DALI	
901485.002.1	L 110, B 110, H 3, HE 27-56	840	430	5	86	107	on/off	✓
901485.002.1.76	L 110, B 110, H 3, HE 31-56	840	430	5	86	107	DALI	
Ceiling cut out LA 156 x BA 156 mm								
901486.002	L 172, B 172, H 3, HE 28-56	830	770	8	97	108	on/off	✓
901486.002.76	L 172, B 172, H 3, HE 31-56	830	770	8	97	108	DALI	
901486.002.1	L 172, B 172, H 3, HE 28-56	840	800	8	100	108	on/off	✓
901486.002.1.76	L 172, B 172, H 3, HE 31-56	840	800	8	100	108	DALI	
Ceiling cut out LA 208 x BA 208 mm								
901487.002	L 225, B 225, H 3, HE 29-56	830	1650	17	98	108	on/off	✓
901487.002.76	L 225, B 225, H 3, HE 31-56	830	1650	17	98	108	DALI	
901487.002.1	L 225, B 225, H 3, HE 29-56	840	1800	17	106	108	on/off	✓
901487.002.1.76	L 225, B 225, H 3, HE 31-56	840	1800	17	106	108	DALI	
Tunable White - 2700 K to 6500 K								
901670.002.76	L 225, B 225, H 3, HE 29-56	827-865	1600	19	87	108	DALI	
901670.002.730	L 225, B 225, H 3, HE 55-75	827-865	1600	19	87	108	smart+free	
Ceiling cut out LA 280 x BA 280 mm								
901488.002	L 300, B 300, H 3, HE 31-56	830	2150	21	103	108	on/off	✓
901488.002.76	L 300, B 300, H 3, HE 31-56	830	2150	21	103	108	DALI	
901488.002.1 .Q	L 300, B 300, H 3, HE 31-56	840	2250	21	108	108	on/off	✓
901488.002.1.76	L 300, B 300, H 3, HE 31-56	840	2250	21	108	108	DALI	
Tunable White - 2700 K to 6500 K								
901671.002.76	L 300, B 300, H 3, HE 31-56	827-865	2400	24	100	108	DALI	
901671.002.730	L 300, B 300, H 3, HE 55-75	827-865	2400	24	100	108	smart+free	

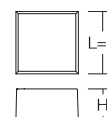
Accessories | Chintz decorative element TOLEDO FLAT square

Fabric shade with classic chintz fabric. Can be retrofitted without tools to the recessed downlight. Various fabric colors available.

Color code must be specified in the order.

Available colour (Y): Color code overview see page 317

Please be aware of possible increased freight charges for deliveries outside of Germany.



without diffuser



with diffuser

Chintz lampshades	Price Category 21
982501.Y L 115, B 115, H 60 Chintz decorative element for TOLEDO FLAT square 110 x 110	
982502.Y L 177, B 177, H 60 Chintz decorative element for TOLEDO FLAT square 172 x 172	
982503.Y L 230, B 230, H 60 Chintz decorative element for TOLEDO FLAT square 225 x 225	
982504.Y L 305, B 305, H 60 Chintz decorative element for TOLEDO FLAT square 300 x 300	

Cannot be fitted with surface mount housing

Satin finish plastic diffuser (optional)

Price Category 21

Can be installed on the decorative element without any tools

982505.002	L 113, B 113, H 4	Accessories for chintz decor cube 115 x 115
982506.002	L 175, B 175, H 4	Accessories for chintz decor cube 177 x 177
982507.002	L 228, B 228, H 4	Accessories for chintz decor cube 230 x 230
982508.002	L 303, B 303, H 4	Accessories for chintz decor cube 305 x 305

Colour chart Chintz lampshades

Price Category 21

W06630 Chintz lampshades are available in more than 50 different colours.



Recessed downlights | TOLEDO FLAT square - movement sensor DALI/BT

Type of protection: IP 20, **IP 54** on room side

Protection class: I

Ceiling thickness S: 1-20 mm

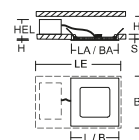
Impact protection: IK06

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Including separate LED converter with connecting cable 250 mm.

Available colour: 2 = white



Comparison LED vs. conventional lamps

LED 17 W ≈

1 x 32 W TC-TEL (36 W Psys)

Function parameters: HF motion detector Bluetooth®-DALI

- HF detector 5.8 GHz
- Holding time: 5 sec. - 60 min., adjustable in 13 steps
- Detection angle 120°
- Range: up to 8 m; adjustable in 10% steps.
- Factory setting: holding time 30 seconds, range approx. 6 m, dim level 30%.
- Dim functions: Soft Start, Corridor, Permanent
- Additional functions: create profiles and groups, networking the sensors
- Master-slave: up to three additional Toledo Flat DALI 17 W can be connected
- Brightness sensor without function.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	
Recessed downlights with connected movement sensor adjustable with app via Bluetooth®-DALI							Price Category 21
Ceiling cut out LA 208 x BA 208 mm							
901716.002.19	L 225, B 225, H 3, HE 55-76	830	1650	17	98	108	smart+free
901716.002.1.19	L 225, B 225, H 3, HE 55-76	840	1800	17	106	108	smart+free

Not suitable for metal ceilings.



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Recessed downlights | TOLEDO FLAT square - movement sensor EASY

Type of protection: IP 20, **IP 54** on room side

Protection class: I

Ceiling thickness S: 1-20 mm

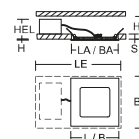
Impact protection: IK06

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Including separate LED converter with connecting cable 250 mm.

Available colour: 2 = white



Comparison LED vs. conventional lamps

LED 17 W ≈

1 x 32 W TC-TEL (36 W Psys)

Function parameters: HF motion detector EASY

- HF detector 5.8 GHz
- Holding time: 10 sec. - 20 min., adjustable in 7 steps.
- Detection angle 120°
- Range: up to 8 m; adjustable in 5 steps.
- Factory setting: holding time 15 minutes, range approx. 6 m.
- Master-slave: up to three additional Toledo Flat on/off 17 W can be connected
- Brightness sensor without function.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	
Recessed downlights with connected movement sensor EASY adjustable with buttons							Price Category 21
Ceiling cut out LA 208 x BA 208 mm							
901487.002.19	L 225, B 225, H 3, HE 55-76	830	1650	17	98	108	on/off
901487.002.1.19	L 225, B 225, H 3, HE 55-76	840	1800	17	106	108	on/off

Not suitable for metal ceilings.

Color code overview for
the fabric lampshades
see page 317





DALI

TOLEDO FLATLINER

Ceiling luminaires, Pendant luminaires

ARCHITECTURE

- **Design-oriented:** Decorative fabric lampshade luminaire for room design.
- **Individual:** More than 50 different standard colours to choose for the fabric lampshade.
- **Extensive:** Standard cylinder and cuboid shapes.

LIGHTING DESIGN

- **Advantageous:** The basic luminaire for fabric lampshades is the TOLEDO FLAT series.
- **Functional:** Satin finish diffusers made of plastic are optionally available.
- **Varied:** Material of fabric lampshade chintz or optionally also flame retardant fabric in compliance with B1.

INSTALLATION

- **Optimum:** Ceiling or pendant mounting.
- **Easy installation:** Fabric lampshades can be retrofitted to the basic luminaire without tools.



Further luminaires of this series, see:

Indoor lighting | Recessed modular luminaires
 Indoor lighting | Recessed mounted downlights
 Indoor lighting | Surface mounted downlights
 Indoor lighting | Pendant luminaires





Ceiling luminaires | TOLEDO FLATLINER

Type of protection: **IP 40**

Protection class: II

Impact protection: IK06

Basic luminaire: Cylinder housing sheet steel, powder-coated. Housing: die cast aluminium and sheet steel, powder-coated. Bezel ring: die-cast aluminium, powder coated. Light guide and diffuser made of non-yellowing PMMA, opal matt.

Fabric lampshade with classic chintz fabric. Covering surface Chintz, various fabric colors available. Order cover as separate accessory.

Modular design: The fabric lampshades need to be ordered separately for each luminaire. Color code for the fabric lampshade must be specified in the order.

Available colours (Y): Color code overview see page 317.

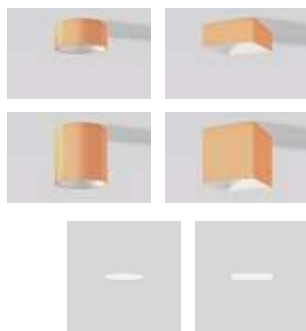
Please be aware of possible increased freight charges for deliveries outside of Germany.

Available colour: 2 = white



Comparison LED vs. conventional lamps

LED 5 W ≈
1 x 10 W TC-D (16 W P_{sys})



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - TOLEDO FLATLINER 200						Price Category 21
901628.002	D 160, H 65	830	310	5	62	on/off
901628.002.1	D 160, H 65	840	360	5	72	on/off

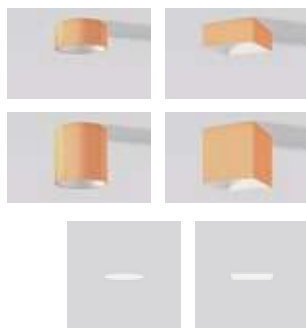
Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshade - TOLEDO FLATLINER 200						Price Category 21
Height of the fabric lampshade 120 mm						
982493.Y	D 200, H 120	Cylinder shape				
982497.Y	L 200, B 200, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982299.Y	D 200, H 300	Cylinder shape				
982309.Y	L 200, B 200, H 300	Cuboid shape				

Satin finish plastic diffuser (optional)						Price Category 21
Can be installed on the decorative element without any tools						
982304.002	D 198, H 5	Accessories for Toledo Flatliner 200 cylinder shape				
982314.002	L 198, B 198, H 5	Accessories for Toledo Flatliner 200 cuboid shape				

Comparison LED vs. conventional lamps

LED 7,7 W ≈
1 x 18 W TC-D (26 W P_{sys})



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - TOLEDO FLATLINER 242						Price Category 21
901630.002	D 202, H 65	830	610	7,7	79	on/off
901630.002.76	D 202, H 65	830	610	7,7	79	DALI
901630.002.1	D 202, H 65	840	660	7,7	86	on/off
901630.002.1.76	D 202, H 65	840	660	7,7	86	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshade - TOLEDO FLATLINER 242						Price Category 21
Height of the fabric lampshade 120 mm						
982494.Y	D 242, H 120	Cylinder shape				
982498.Y	L 242, B 242, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982300.Y	D 242, H 300	Cylinder shape				
982310.Y	L 242, B 242, H 300	Cuboid shape				

Satin finish plastic diffuser (optional)						Price Category 21
Can be installed on the decorative element without any tools						
982305.002	D 240, H 5	Accessories for Toledo Flatliner 242 cylinder shape				
982315.002	L 240, B 240, H 5	Accessories for Toledo Flatliner 242 cuboid shape				

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - TOLEDO FLATLINER 307						Price Category 21
901632.002	D 268, H 70	830	1250	17	74	on/off
901632.002.76	D 268, H 70	830	1250	17	74	DALI
901632.002.1	D 268, H 70	840	1400	17	82	on/off
901632.002.1.76	D 268, H 70	840	1400	17	82	DALI

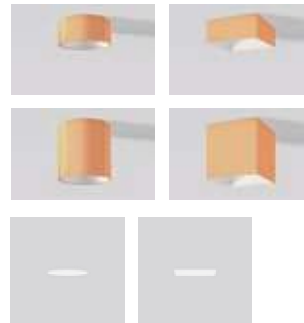
Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshade - TOLEDO FLATLINER 307						Price Category 21
Height of the fabric lampshade 120 mm						
982495.Y	D 307, H 120	Cylinder shape				
982499.Y	L 307, B 307, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982301.Y	D 307, H 300	Cylinder shape				
982311.Y	L 307, B 307, H 300	Cuboid shape				

Satin finish plastic diffuser (optional)						Price Category 21
Can be installed on the decorative element without any tools						
982306.002	D 305, H 5	Accessories for Toledo Flatliner 307 cylinder shape				
982316.002	L 305, B 305, H 5	Accessories for Toledo Flatliner 307 cuboid shape				

Comparison LED vs. conventional lamps

LED 17 W ≈
2 x 18 W TC-D (52 W Psys)



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - TOLEDO FLATLINER 369						Price Category 21
901634.002	D 330, H 70	830	1700	22	77	on/off
901634.002.76	D 330, H 70	830	1700	22	77	DALI
901634.002.1	D 330, H 70	840	1950	22	89	on/off
901634.002.1.76	D 330, H 70	840	1950	22	89	DALI

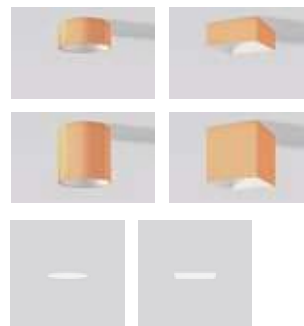
Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshade - TOLEDO FLATLINER 369						Price Category 21
Height of the fabric lampshade 120 mm						
982496.Y	D 369, H 120	Cylinder shape				
982500.Y	L 369, B 369, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982302.Y	D 369, H 300	Cylinder shape				
982312.Y	L 369, B 369, H 300	Cuboid shape				

Satin finish plastic diffuser (optional)						Price Category 21
Can be installed on the decorative element without any tools						
982307.002	D 367, H 5	Accessories for Toledo Flatliner 369 cylinder shape				
982317.002	L 367, B 367, H 5	Accessories for Toledo Flatliner 369 cuboid shape				

Comparison LED vs. conventional lamps

LED 22 W ≈
2 x 26 W TC-D (68 W Psys)



Colour chart Chintz lampshades						Price Category 21
W06630	L 150, B 65, H 40	Chintz lampshades are available in more than 50 different colours.				



Color code overview for
the fabric lampshades
see page 317





Pendant luminaires | TOLEDO FLATLINER

Type of protection: IP 20

Protection class: I

Impact protection: IK06

Suspension Length: 2000 mm

Basic luminaire: Cylinder housing sheet steel, powder coated, Housing die cast aluminium and sheet steel, powder-coated, Bezel ring die-cast aluminium, powder coated, Light guide and diffuser made of non-yellowing PMMA, opal matt. Fabric lampshades can be mounted without tools. Transparent suspension cable 2 m, can be shortened. Canopy sheet steel, powder coated.

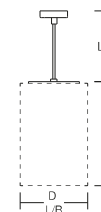
Fabric lampshade with classic chintz fabric. Covering surface Chintz, various fabric colors available. Order cover as separate accessory.

Modular design: The fabric lampshades need to be ordered separately for each luminaire. Color code for the fabric lampshade must be specified in the order.

Available colours (Y): Color code overview see page 317.

Please be aware of possible increased freight charges for deliveries outside of Germany.

Available colour: 2 = white



Comparison LED vs. conventional lamps

LED 5 W ≈
1 x 10 W TC-D (16 W Psys)



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - TOLEDO FLATLINER 200						Price Category 21
901629.002	D 162, H 90	830	310	5	62	on/off
901629.002.1	D 162, H 90	840	360	5	72	on/off

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshade - TOLEDO FLATLINER 200						Price Category 21
Height of the fabric lampshade 120 mm						
982493.Y	D 200, H 120	Cylinder shape				
982497.Y	L 200, B 200, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982299.Y	D 200, H 300	Cylinder shape				
982309.Y	L 200, B 200, H 300	Cuboid shape				

Satin finish plastic diffuser (optional)						Price Category 21
Can be installed on the decorative element without any tools						
982304.002	D 198, H 5	Accessories for Toledo Flatliner 200 cylinder shape				
982314.002	L 198, B 198, H 5	Accessories for Toledo Flatliner 200 cuboid shape				

Comparison LED vs. conventional lamps

LED 7,7 W ≈
1 x 18 W TC-D (26 W Psys)



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - TOLEDO FLATLINER 242						Price Category 21
901631.002	D 204, H 90	830	610	7,7	79	on/off
901631.002.76	D 204, H 90	830	610	7,7	79	DALI
901631.002.1	D 204, H 90	840	660	7,7	86	on/off
901631.002.1.76	D 204, H 90	840	660	7,7	86	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshade - TOLEDO FLATLINER 242						Price Category 21
Height of the fabric lampshade 120 mm						
982494.Y	D 242, H 120	Cylinder shape				
982498.Y	L 242, B 242, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982300.Y	D 242, H 300	Cylinder shape				
982310.Y	L 242, B 242, H 300	Cuboid shape				

Satin finish plastic diffuser (optional)						Price Category 21
Can be installed on the decorative element without any tools						
982305.002	D 240, H 5	Accessories for Toledo Flatliner 242 cylinder shape				
982315.002	L 240, B 240, H 5	Accessories for Toledo Flatliner 242 cuboid shape				

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - TOLEDO FLATLINER 307						Price Category 21
901633.002	D 270, H 96	830	1250	17	74	on/off
901633.002.76	D 270, H 96	830	1250	17	74	DALI
901633.002.1	D 270, H 96	840	1400	17	82	on/off
901633.002.1.76	D 270, H 96	840	1400	17	82	DALI

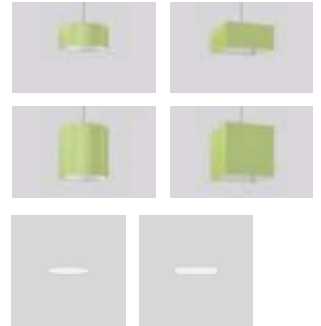
Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshade - TOLEDO FLATLINER 307						Price Category 21
Height of the fabric lampshade 120 mm						
982495.Y	D 307, H 120	Cylinder shape				
982499.Y	L 307, B 307, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982301.Y	D 307, H 300	Cylinder shape				
982311.Y	L 307, B 307, H 300	Cuboid shape				

Satin finish plastic diffuser (optional)						Price Category 21
Can be installed on the decorative element without any tools						
982306.002	D 305, H 5	Accessories for Toledo Flatliner 307 cylinder shape				
982316.002	L 305, B 305, H 5	Accessories for Toledo Flatliner 307 cuboid shape				

Comparison LED vs. conventional lamps

LED 17 W ≈
2 x 18 W TC-D (52 W Psys)



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - TOLEDO FLATLINER 369						Price Category 21
901635.002	D 331, H 96	830	1750	22	80	on/off
901635.002.76	D 331, H 96	830	1750	22	80	DALI
901635.002.1	D 331, H 96	840	1950	22	89	on/off
901635.002.1.76	D 331, H 96	840	1950	22	89	DALI

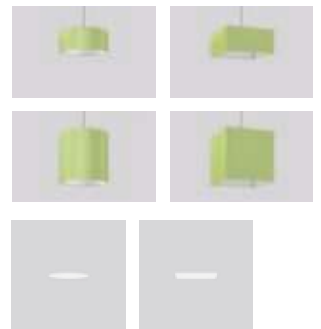
Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshade - TOLEDO FLATLINER 369						Price Category 21
Height of the fabric lampshade 120 mm						
982496.Y	D 369, H 120	Cylinder shape				
982500.Y	L 369, B 369, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982302.Y	D 369, H 300	Cylinder shape				
982312.Y	L 369, B 369, H 300	Cuboid shape				

Satin finish plastic diffuser (optional)						Price Category 21
Can be installed on the decorative element without any tools						
982307.002	D 367, H 5	Accessories for Toledo Flatliner 369 cylinder shape				
982317.002	L 367, B 367, H 5	Accessories for Toledo Flatliner 369 cuboid shape				

Comparison LED vs. conventional lamps

LED 22 W ≈
2 x 26 W TC-D (68 W Psys)



Colour chart Chintz lampshades						Price Category 21
W06630	L 150, B 65, H 40	Chintz lampshades are available in more than 50 different colours.				



Color code overview for
the fabric lampshades
see page 317





DALI IP40

FLATLINER

Ceiling luminaires, Pendant luminaires

ARCHITECTURE

- **Design-oriented:** Decorative fabric lampshade luminaire for room design.
- **Individual:** More than 50 different standard colours to choose for the fabric lampshade.
- **Extensive:** Standard cylinder and cuboid shapes.

LIGHTING DESIGN

- **Advantageous:** Fabric lampshade and cover made of chintz for a pleasant living room ambience.
- **Anti-glare:** Pleasantly gentle light with soft shadows.
- **Varied:** Material of fabric lampshade chintz or optionally also flame retardant fabric in compliance with B1.

INSTALLATION

- **Optimum:** Ceiling or pendant mounting.
- **Easy installation:** Fabric lampshades can be fitted to the basic luminaire without tools.

Ceiling luminaires | FLATLINER

Type of protection: **IP 40**

Protection class: I

Impact protection: IK02

Basic luminaire: Base: metal, white, powder-coated. Fabric lampshades can be mounted without tools.

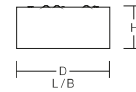
Fabric lampshade with classic chintz fabric. The fabric lampshade are closed at the bottom. Covering surface Chintz, various fabric colors available. Cover chintz white (FC01).

Modular design: The fabric lampshades need to be ordered separately for each luminaire.

Color code for the fabric lampshade must be specified in the order.

Available colours (Y): Color code overview see page 317.

Please be aware of possible increased freight charges for deliveries outside of Germany.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - FLATLINER 550						Price Category 21
311933.002	D 460, H 120	830	1450	19	76	on/off
311933.002.76	D 460, H 120	830	1450	19	76	DALI
311933.002.1	D 460, H 120	840	1450	19	76	on/off
311933.002.1.76	D 460, H 120	840	1450	19	76	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshades - FLATLINER 550						Price Category 21
981867.Y	D 550, H 250	Shape: cylinder				
981870.Y	L 550, B 550, H 250	Shape: cuboid				

Comparison LED vs. conventional lamps

LED 19 W ≈

2 x 18 W TC-D (52 W Psys)



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - FLATLINER 700						Price Category 21
311934.002	D 620, H 160	830	2800	38	74	on/off
311934.002.76	D 620, H 160	830	2800	38	74	DALI
311934.002.1	D 620, H 160	840	2800	38	74	on/off
311934.002.1.76	D 620, H 160	840	2800	38	74	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshades - FLATLINER 700						Price Category 21
981868.Y	D 700, H 250	Shape: cylinder				
981871.Y	L 700, B 700, H 250	Shape: cuboid				

Comparison LED vs. conventional lamps

LED 38 W ≈

3 x 26 W TC-D (102 W Psys)



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - FLATLINER 1100						Price Category 21
311935.002	D 1040, H 230	830	7000	100	70	on/off
311935.002.76	D 1040, H 230	830	7000	100	70	DALI
311935.002.1	D 1040, H 230	840	7300	100	73	on/off
311935.002.1.76	D 1040, H 230	840	7300	100	73	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshades - FLATLINER 1100						Price Category 21
981869.Y	D 1100, H 250	Shape: cylinder				
981872.Y	L 1100, B 1100, H 250	Shape: cuboid				

Colour chart Chintz lampshades						Price Category 21
W06630	L 150, B 65, H 40	Chintz lampshades are available in more than 50 different colours.				



Color code overview for the fabric lampshades see page 317





Pendant luminaires | FLATLINER

Type of protection: **IP 40**

Protection class: I

Impact protection: IK02

Suspension Length: 200-3500 mm (FLATLINER 550)

Suspension Length: 350-3500 mm (FLATLINER 700)

Suspension Length: 600-3500 mm (FLATLINER 1100)

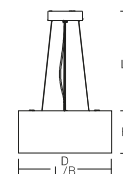
Basic luminaire: Base and canopy: metal, powder-coated, white. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Transparent connecting cable. Fabric ampshades can be mounted without tools.

Fabric lampshade with classic chintz fabric. The fabric lampshade are closed at the bottom. Covering surface Chintz, various fabric colors available. Cover chintz white (FC01).

Modular design: The fabric lampshades need to be ordered separately for each luminaire. Color code for the fabric lampshade must be specified in the order.

Available colours (Y): Color code overview see page 317.

Please be aware of possible increased freight charges for deliveries outside of Germany.



Comparison LED vs. conventional lamps

LED 19 W ≈
2 x 18 W TC-D (52 W Psys)



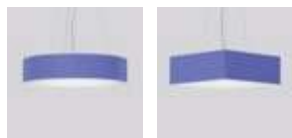
Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - FLATLINER 550						Price Category 21
311930.002	D 460, H 120	830	1450	19	76	on/off
311930.002.76	D 460, H 120	830	1450	19	76	DALI
311930.002.1	D 460, H 120	840	1450	19	76	on/off
311930.002.1.76	D 460, H 120	840	1450	19	76	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshades - FLATLINER 550						Price Category 21
981867.Y	D 550, H 250	Shape: cylinder				
981870.Y	L 550, B 550, H 250	Shape: cuboid				

Comparison LED vs. conventional lamps

LED 38 W ≈
3 x 26 W TC-D (102 W Psys)



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - FLATLINER 700						Price Category 21
311931.002	D 620, H 160	830	2800	38	74	on/off
311931.002.76	D 620, H 160	830	2800	38	74	DALI
311931.002.1	D 620, H 160	840	2800	38	74	on/off
311931.002.1.76	D 620, H 160	840	2800	38	74	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshades - FLATLINER 700						Price Category 21
981868.Y	D 700, H 250	Shape: cylinder				
981871.Y	L 700, B 700, H 250	Shape: cuboid				

Comparison LED vs. conventional lamps

LED 100 W ≈
4 x 42 W TC-TEL (180 W Psys)



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Basic luminaire for fabric lampshade attachment - FLATLINER 1100						Price Category 21
311932.002	D 1040, H 230	830	7000	100	70	on/off
311932.002.76	D 1040, H 230	830	7000	100	70	DALI
311932.002.1	D 1040, H 230	840	7300	100	73	on/off
311932.002.1.76	D 1040, H 230	840	7300	100	73	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz fabric lampshades - FLATLINER 1100						Price Category 21
981869.Y	D 1100, H 250	Shape: cylinder				
981872.Y	L 1100, B 1100, H 250	Shape: cuboid				

Colour chart Chintz lampshades

W06630 L 150, B 65, H 40 Chintz lampshades are available in more than 50 different colours.



Colour options of the chintz lampshades

The fabric lampshades need to be ordered separately for each luminaire.
Color code for the fabric lampshade must be specified in the order.

Available colours (Y): Insert the color code (FC..) of the desired fabric color



Order example

Pendant luminaires FLATLINER SLIM 322

Basic luminaire (830, 1600 lm, on/off) **312282.002**

Fabric lampshade 982566,Y **982566.FC42**

	FC01 66.8003.01		FC41 66.8003.41		FC78 66.8003.78
	FC02 66.8003.02		FC42 66.8003.42		FC80 66.8003.80
	FC03 66.8003.03		FC43 66.8003.43		FC81 66.8003.81
	FC07 66.8003.07		FC44 66.8003.44		FC82 66.8003.82
	FC08 66.8003.08		FC46 66.8003.46		FC83 66.8003.83
	FC09 66.8003.09		FC48 66.8003.48		FC84 66.8003.84
	FC10 66.8003.10		FC49 66.8003.49		FC86 66.8003.86
	FC11 66.8003.11		FC50 66.8003.50		FC87 66.8003.87
	FC12 66.8003.12		FC52 66.8003.52		FC92 66.8003.92
	FC14 66.8003.14		FC53 66.8003.53		FC95 66.8003.95
	FC17 66.8003.17		FC54 66.8003.54		FC96 66.8003.96
	FC18 66.8003.18		FC56 66.8003.56		
	FC19 66.8003.19		FC57 66.8003.57		
	FC20 66.8003.20		FC60 66.8003.60		
	FC21 66.8003.21		FC62 66.8003.62		
	FC23 66.8003.23		FC64 66.8003.64		
	FC24 66.8003.24		FC67 66.8003.67		
	FC32 66.8003.32		FC68 66.8003.68		
	FC33 66.8003.33		FC69 66.8003.69		
	FC35 66.8003.35		FC72 66.8003.72		
	FC36 66.8003.36		FC74 66.8003.74		
	FC37 66.8003.37		FC75 66.8003.75		
	FC40 66.8003.40		FC77 66.8003.77		

















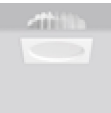




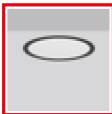

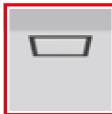


Note on available fabric colours:

RZB is committed to keep the colour code listings in the sales documents and the sample colour charts of the more than 50 different colours up to date at all times. The colours currently available are determined by the fabric manufacturers, who make changes to their range of fabrics at short notice from time to time. As a luminaire manufacturer, RZB unfortunately has only limited influence on this.

Our fabric shade luminaires are individually hand-crafted in Germany to order and are therefore dependent on the current supply situation of the fabrics. As a result, it can occasionally happen that some colours are not available. Your sales contact will be happy to provide information about the colours of our fabric shade luminaires that are available on a daily basis.



The application image shows:
TOLEDO FLAT

		LEVIDO 320-323
321	322	
		ARELO 324-325
	325	
		ENERGO DARKLIGHT 326-327
	327	
		HELEDON 328-337
330-331	332-335	
		PASCALA 338-343
341	341	
		
342	342	
		QUARDO 344-345
	345	
		LEDONA 346-351
348-349	350-351	
		LEDONA ECO 352-353
353	353	
		TOLEDO FLAT 354-365
360-361	362-363	
		TOLEDO FLAT PRO 354-355 366-369
	369	
		TOLEDO FLAT+ 354-355 370-377
374-375	374-375	
		
376-377	376-377	
		TRIXY 378-379
379	379	



LEVIDO®

Recessed downlights

ARCHITECTURE

- **Design-oriented:** Decorative LED downlight with daintily small dimensions.
- **Versatile:** 2 designs, 2 beam angles, 2 colours.
- **Long service life:** Die-cast aluminium cover.
- **Protected:** Safety glass cover to protect the LED.

LIGHTING DESIGN

- **Efficient:** Alternative for low-voltage 35 W and 50 W.
- **Standard:** MultiLumen - 2-step adjustable luminous flux.
- **Anti-glare:** Very good glare limitation due to back-mounted LED.
- **Advantageous:** LED rated life 50000 h (L90/B50).
- **Homogenous:** Opal diffuser (PMMA) for uniform, homogenous light distribution are available as accessory items.

INSTALLATION

- **Easy installation:** Converter in separate box. Very simple installation with plug-in locking system.
- **Straightforward:** DALI variants suitable for through wiring as standard.



Further luminaires of this series, see:
Indoor lighting | Recessed projectors

Recessed downlights | LEVIDO round

Type of protection: IP 20, **IP 44** on room side

Protection class: II

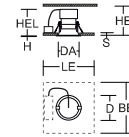
Ceiling thickness S: 1-20 mm

Impact protection: IK06

Die-cast aluminium cover, powder-coated. Heat sink die-cast aluminium. Reflector: aluminium, highly polished anodised finish. With safety glass. Ceiling installation with spring system. Including separate LED converter with connecting cable 250 mm. DALI variants suitable for through wiring as standard. DALI converter is compatible with DC.

Available colours: 2 = white, 3 = black

MultiLumen: 2 steps adjustable luminous flux. Factory setting is the highest luminous flux.

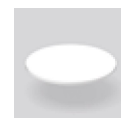


Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency [#] [lm/W]	α [°]	UGR	Lighting control
Recessed downlights - Colour white								
Ceiling cut out DA 78 mm								
Medium beam light distribution								
901831.002.2	D 91, H 2, HE 95	827	620/960	7,5/12	83	23	18,3/19,8	Phase-cut
901831.002.2.76	D 91, H 2, HE 95	827	620/960	7,5/12	83	23	18,3/19,8	DALI
901831.002	D 91, H 2, HE 95	830	670/1050	7,5/12	90	23	18,6/20,1	Phase-cut
901831.002.76	D 91, H 2, HE 95	830	670/1050	7,5/12	90	23	18,6/20,1	DALI
901831.002.1	D 91, H 2, HE 95	840	670/1050	7,5/12	90	23	18,6/20,1	Phase-cut
901831.002.1.76	D 91, H 2, HE 95	840	670/1050	7,5/12	90	23	18,6/20,1	DALI
Wide beam light distribution								
901832.002.2	D 91, H 2, HE 95	827	650/1000	7,5/12	87	52	18,5/20	Phase-cut
901832.002.2.76	D 91, H 2, HE 95	827	650/1000	7,5/12	87	52	18,5/20	DALI
901832.002	D 91, H 2, HE 95	830	710/1100	7,5/12	95	52	18,8/20,3	Phase-cut
901832.002.76	D 91, H 2, HE 95	830	710/1100	7,5/12	95	52	18,8/20,3	DALI
901832.002.1	D 91, H 2, HE 95	840	730/1100	7,5/12	98	52	18,9/20,3	Phase-cut
901832.002.1.76	D 91, H 2, HE 95	840	730/1100	7,5/12	98	52	18,9/20,3	DALI
Recessed downlights - Colour black								
Ceiling cut out DA 78 mm								
Medium beam light distribution								
901831.003.2	D 91, H 2, HE 95	827	550/850	7,5/12	74	23	9,8/11,3	Phase-cut
901831.003.2.76	D 91, H 2, HE 95	827	550/850	7,5/12	74	23	9,8/11,3	DALI
901831.003	D 91, H 2, HE 95	830	590/920	7,5/12	79	23	10/11,6	Phase-cut
901831.003.76	D 91, H 2, HE 95	830	590/920	7,5/12	79	23	10/11,6	DALI
901831.003.1	D 91, H 2, HE 95	840	600/920	7,5/12	80	23	10,1/11,6	Phase-cut
901831.003.1.76	D 91, H 2, HE 95	840	600/920	7,5/12	80	23	10,1/11,6	DALI
Wide beam light distribution								
901832.003.2	D 91, H 2, HE 95	827	560/870	7,5/12	75	48	11/12,6	Phase-cut
901832.003.2.76	D 91, H 2, HE 95	827	560/870	7,5/12	75	48	11/12,6	DALI
901832.003	D 91, H 2, HE 95	830	620/950	7,5/12	83	48	11,4/12,9	Phase-cut
901832.003.76	D 91, H 2, HE 95	830	620/950	7,5/12	83	48	11,4/12,9	DALI
901832.003.1	D 91, H 2, HE 95	840	630/980	7,5/12	84	48	11,4/13	Phase-cut
901832.003.1.76	D 91, H 2, HE 95	840	630/980	7,5/12	84	48	11,4/13	DALI
Cover: plastic, opal								
982184.002	D 44, H 2	Opal plastic cover (PMMA); can be fitted without tools.						

**Comparison
LED vs. conventional lamps**

LED 7,5 W ≈
1 x 13 W TC-D (19 W P_{sys})

LED 12 W ≈
1 x 18 W TC-D (26 W P_{sys})





Recessed downlights | LEVIDO square

Type of protection: IP 20, IP 44 on room side

Protection class: II

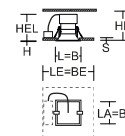
Ceiling thickness S: 1-20 mm

Impact protection: IK06

Die-cast aluminium cover, powder-coated. Heat sink die-cast aluminium. Reflector: aluminium, highly polished anodised finish. With safety glass. Ceiling installation with spring system. Including separate LED converter with connecting cable 250 mm. DALI variants suitable for through wiring as standard. DALI converter is compatible with DC.

Available colours: 2 = white, 3 = black

MultiLumen: 2 steps adjustable luminous flux. Factory setting is the highest luminous flux.



Comparison LED vs. conventional lamps

LED 7,5 W ≈

1 x 13 W TC-D (19 W P_{sys})

LED 12 W ≈

1 x 18 W TC-D (26 W P_{sys})



Recessed downlights - Colour white

Ceiling cut out LA 86 x BA 86 mm

Medium beam light distribution

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control
901833.002.2	L 98, B 98, H 2, HE 95	827	640/990	7,5/12	86	23	15,7/17,2	Phase-cut
901833.002.2.76	L 98, B 98, H 2, HE 95	827	640/990	7,5/12	86	23	15,7/17,2	DALI
901833.002	L 98, B 98, H 2, HE 95	830	690/1050	7,5/12	92	23	16/17,4	Phase-cut
901833.002.76	L 98, B 98, H 2, HE 95	830	690/1050	7,5/12	92	23	16/17,4	DALI
901833.002.1	L 98, B 98, H 2, HE 95	840	700/1100	7,5/12	94	23	16/17,6	Phase-cut
901833.002.1.76	L 98, B 98, H 2, HE 95	840	700/1100	7,5/12	94	23	16/17,6	DALI

Wide beam light distribution

901834.002.2	L 98, B 98, H 2, HE 95	827	660/1000	7,5/12	88	54	15,7/17,1	Phase-cut
901834.002.2.76	L 98, B 98, H 2, HE 95	827	660/1000	7,5/12	88	54	15,7/17,1	DALI
901834.002	L 98, B 98, H 2, HE 95	830	720/1100	7,5/12	96	54	16/17,4	Phase-cut
901834.002.76	L 98, B 98, H 2, HE 95	830	720/1100	7,5/12	96	54	16/17,4	DALI
901834.002.1	L 98, B 98, H 2, HE 95	840	740/1150	7,5/12	99	54	16,1/17,6	Phase-cut
901834.002.1.76	L 98, B 98, H 2, HE 95	840	740/1150	7,5/12	99	54	16,1/17,6	DALI

Recessed downlights - Colour black

Ceiling cut out LA 86 x BA 86 mm

Medium beam light distribution

901833.003.2	L 98, B 98, H 2, HE 95	827	600/930	7,5/12	80	23	13,4/15	Phase-cut
901833.003.2.76	L 98, B 98, H 2, HE 95	827	600/930	7,5/12	80	23	13,4/15	DALI
901833.003	L 98, B 98, H 2, HE 95	830	650/1000	7,5/12	87	23	13,7/15,2	Phase-cut
901833.003.76	L 98, B 98, H 2, HE 95	830	650/1000	7,5/12	87	23	13,7/15,2	DALI
901833.003.1	L 98, B 98, H 2, HE 95	840	650/1000	7,5/12	87	23	13,7/15,2	Phase-cut
901833.003.1.76	L 98, B 98, H 2, HE 95	840	650/1000	7,5/12	87	23	13,7/15,2	DALI

Wide beam light distribution

901834.003.2	L 98, B 98, H 2, HE 95	827	620/960	7,5/12	83	54	13,6/15,1	Phase-cut
901834.003.2.76	L 98, B 98, H 2, HE 95	827	620/960	7,5/12	83	54	13,6/15,1	DALI
901834.003	L 98, B 98, H 2, HE 95	830	680/1050	7,5/12	91	54	14/15,5	Phase-cut
901834.003.76	L 98, B 98, H 2, HE 95	830	680/1050	7,5/12	91	54	14/15,5	DALI
901834.003.1	L 98, B 98, H 2, HE 95	840	700/1100	7,5/12	94	54	14,1/15,6	Phase-cut
901834.003.1.76	L 98, B 98, H 2, HE 95	840	700/1100	7,5/12	94	54	14,1/15,6	DALI

Cover: plastic, opal

982184.002	D 44, H 2	Opal plastic cover (PMMA); can be fitted without tools.
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Compensating rings available for various ceiling cut outs!





DALI

IP44

ARELO®

Recessed downlights

ARCHITECTURE

- Housing made of shockproof, UV-resistant plastic (polycarbonate).
- Aluminium faceted reflector, highly polished anodised finish for brilliant illumination.
- Satin finish LED diffuser to reduce direct glare.

LIGHTING DESIGN

- **MultiColour:** with rear switching element, variable colour temperature 3000 K or 4000 K.
- Highly homogeneous light distribution through the combination of the reflector and the satin finish LED diffuser.
- LED rated life 50000 h (L70/B50).

INSTALLATION

- Quick and easy to install.
- Installation without tools thanks to spring fastening system.
- Suitable for through-wiring (doesn't apply to D130/DALI).

Recessed downlights | ARELO

Type of protection: IP 20, **IP 44** on room side

Protection class: II

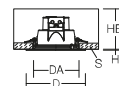
Ceiling thickness S: 1-25 mm

Impact protection: IK05

Bezel ring: die-cast aluminium, powder coated. Housing made of UV-resistant polycarbonate. Aluminium faceted reflector, highly polished anodised finish, LED diffuser, satin finish (UV-resistant polycarbonate, shockproof). Spring fastening system. On/off version with integrated converter. DALI version with separate converter.

Available colour: 2 = white

MultiColour: Colour temperature adjustable via switching element. Factory setting is 4000 K.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control
Recessed downlights								
Ceiling cut out DA 105 mm								
901702.002	D 130, H 2, HE 100	830, 840	750	6,5	116	94	22,7/23,1	on/off
901702.002.76	D 130, H 2, HE 100	830, 840	750	6,5	116	94	22,7/23,1	DALI
Ceiling cut out DA 150 mm								
901703.002	D 172, H 2, HE 140	830, 840	1800	16	113	91	22/22,5	on/off
901703.002.76	D 172, H 2, HE 140	830, 840	1800	16	113	91	22/22,5	DALI
Ceiling cut out DA 200 mm								
901704.002	D 225, H 4, HE 140	830, 840	2700	23	118	72	21,3/22	on/off
901704.002.76	D 225, H 4, HE 140	830, 840	2700	23	118	72	21,3/22	DALI

MultiColour: luminous flux and system power can vary depends on the light color. You will find more detailed information on www.rzb-lighting.com.

Comparison LED vs. conventional lamps

LED 6,5 W ≈

1 x 13 W TC-D (19 W Psys)

LED 16 W ≈

1 x 32 W TC-TEL (36 W Psys)

LED 23 W ≈

1 x 42 W TC-TEL (47 W Psys)



Compensating rings
available for various
ceiling cut outs!



MultiColour: Colour temperature adjustable via switching element.



DALI



ENERGO® DARKLIGHT

Recessed downlights

ARCHITECTURE

- High quality recessed downlight.
- Die cast aluminium ring with trumpet reflector.
- Trumpet reflector creates a darklight effect, i.e. when switched on, the luminaire appears dark (when seen from the side), you don't need turbo louvre any more to create this effect.

LIGHTING DESIGN

- Harmonised lighting and excellent glare suppression.
- LED rated life 50000 h (L80/B10).
- Colour tolerance within 2-steps MacAdam (2 SDCM).

INSTALLATION

- Quick and easy to install.
- Installation without tools thanks to spring fastening system.
- Suitable for through-wiring.

Recessed downlights | ENERGO DARKLIGHT

Type of protection: IP 20

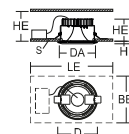
Protection class: I, II

Ceiling thickness S: 3-18 mm, 1-18 mm, 1-20 mm

Impact protection: IK03

Recessed and bezel ring: die-cast aluminium. Bezel ring with bayonet fixing. Recessed mounting frame: sheet steel, powder-coated. Heat sink made of black anodised extruded aluminium. Trumpet reflector: high purity aluminium, matt. Ceiling installation with spring system. Converter in separate box. With connecting cable (L 400 mm). Suitable for through-wiring. Converter connected for standard (on/off) or DALI dimmable. Converter compatible with DC.

Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control
Recessed downlights								
Ceiling cut out DA 140 mm, Ceiling thickness: 3-18 mm								
901545.002	D 156, H 9, HE 155	830	1200	10	120	38	16	on/off
901545.002.76	D 156, H 9, HE 155	830	1200	10	120	38	16	DALI
901545.002.1	D 156, H 9, HE 155	840	1250	10	125	38	16,2	on/off
901545.002.1.76	D 156, H 9, HE 155	840	1250	10	125	38	16,2	DALI
Ceiling cut out DA 175 mm, Ceiling thickness: 1-18 mm								
901547.002	D 195, H 9, HE 160	830	2150	18	120	42	16,8	on/off
901547.002.76	D 195, H 9, HE 160	830	2150	18	120	42	16,8	DALI
901547.002.1	D 195, H 9, HE 160	840	2250	18	125	42	17	on/off
901547.002.1.76	D 195, H 9, HE 160	840	2250	18	125	42	17	DALI
Ceiling cut out DA 210 mm, Ceiling thickness: 1-20 mm								
901549.002	D 230, H 9, HE 175	830	3050	27	113	51	17,4	on/off
901549.002.76	D 230, H 9, HE 175	830	3050	27	113	51	17,4	DALI
901549.002.1	D 230, H 9, HE 175	840	3200	27	119	51	17,5	on/off
901549.002.1.76	D 230, H 9, HE 175	840	3200	27	119	51	17,5	DALI

Ra > 90 options on request

Price Category 21

Comparison LED vs. conventional lamps

LED 10 W ≈

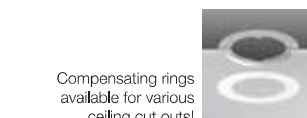
1 x 17 W TC-TEL (21 W Psys)

LED 18 W ≈

1 x 42 W TC-TEL (47 W Psys)

LED 27 W ≈

1 x 57 W TC-TEL (59 W Psys)



Compensating rings available for various ceiling cut outs!



Trumpet reflector for darklight effect



HELEDON

Recessed downlights

ARCHITECTURE

- **Design-oriented:** Classic, timeless and with minimalist design.
- **Flexible:** Surface and recessed mounted downlights.
- **Versatile:** 2 sizes, 2 types of installation, 2 optical systems, 3 colours.
- **Individual:** 8 interchangeable lenses with different beam angles.
- **Long service life:** Housing made of top quality die-cast aluminium.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.



Further luminaires of this series, see:
Indoor lighting | Surface mounted downlights

LIGHTING DESIGN

- **Variable:** MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone.
- **Standard:** Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality.
- **Versatile:** 7 different light colors with CRI >90 and special Food-LEDs available as standard.
- **Advantageous:** LED rated life 50000 h (L90/B10).
- **Optimum:** Colour tolerance within 2-steps MacAdam (2 SDCM).

INSTALLATION

- **Easy installation:** Tool-free assembly.
- **Straightforward:** Installation could not be easier thanks to Plug & Play.
- **Expandable:** Suitable for through-wiring with separately available accessories.
- **Extensive:** The following accessories can be mounted without use of tools: interchangeable lenses, decorative glasses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring.





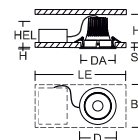
Recessed downlights | HELEDON mini - Optic reflector

Type of protection: IP 20
Protection class: II
Ceiling thickness S: 1-20 mm
Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With MIRO-SILVER® reflector. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 42 W TC-TEL (47 W Psys)
1 x 35 W HIT (43 W Psys)

LED 29 W ≈

1 x 57 W TC-TEL (59 W Psys)
1 x 50 W HIT (56 W Psys)



Recessed downlights - Reflector spot

Price Category 21

Ceiling cut out DA 114 mm

901740.00X	D 124, H 3, HE 170	930	2450	20	123	18	on/off
901740.00X.76	D 124, H 3, HE 170	930	2450	20	123	18	DALI
901740.00X.1	D 124, H 3, HE 170	940	2550	20	128	18	on/off
901740.00X.1.76	D 124, H 3, HE 170	940	2550	20	128	18	DALI
901748.00X	D 124, H 3, HE 170	930	3500	29	121	18	on/off
901748.00X.76	D 124, H 3, HE 170	930	3500	29	121	18	DALI
901748.00X.1	D 124, H 3, HE 170	940	3550	29	123	18	on/off
901748.00X.1.76	D 124, H 3, HE 170	940	3550	29	123	18	DALI



Recessed downlights - Reflector medium

Price Category 21

Ceiling cut out DA 114 mm

901741.00X	D 124, H 3, HE 170	930	2400	20	120	31	on/off
901741.00X.76	D 124, H 3, HE 170	930	2400	20	120	31	DALI
901741.00X.1	D 124, H 3, HE 170	940	2450	20	123	31	on/off
901741.00X.1.76	D 124, H 3, HE 170	940	2450	20	123	31	DALI
901749.00X	D 124, H 3, HE 170	930	3350	29	116	31	on/off
901749.00X.76	D 124, H 3, HE 170	930	3350	29	116	31	DALI
901749.00X.1	D 124, H 3, HE 170	940	3500	29	121	31	on/off
901749.00X.1.76	D 124, H 3, HE 170	940	3500	29	121	31	DALI



Recessed downlights - Reflector wide flood

Price Category 21

Ceiling cut out DA 114 mm

901742.00X	D 124, H 3, HE 170	930	2450	20	123	60	on/off
901742.00X.76	D 124, H 3, HE 170	930	2450	20	123	60	DALI
901742.00X.1	D 124, H 3, HE 170	940	2550	20	128	60	on/off
901742.00X.1.76	D 124, H 3, HE 170	940	2550	20	128	60	DALI
901750.00X	D 124, H 3, HE 170	930	3500	29	121	60	on/off
901750.00X.76	D 124, H 3, HE 170	930	3500	29	121	60	DALI
901750.00X.1	D 124, H 3, HE 170	940	3650	29	126	60	on/off
901750.00X.1.76	D 124, H 3, HE 170	940	3650	29	126	60	DALI



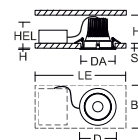
Recessed downlights | HELEDON mini - Oval corridor optic lens

Type of protection: IP 20
Protection class: II
Ceiling thickness S: 1-20 mm
Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With optical assembly polycarbonate lens. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Recessed downlights - Oval corridor lens

Price Category 21

Ceiling cut out DA 114 mm

901747.00X	D 124, H 3, HE 170	930	1850	20	93	40/28	on/off
901747.00X.76	D 124, H 3, HE 170	930	1850	20	93	40/28	DALI
901747.00X.1	D 124, H 3, HE 170	940	1950	20	98	40/28	on/off
901747.00X.1.76	D 124, H 3, HE 170	940	1950	20	98	40/28	DALI
901755.00X	D 124, H 3, HE 170	930	2650	29	92	40/28	on/off
901755.00X.76	D 124, H 3, HE 170	930	2650	29	92	40/28	DALI
901755.00X.1	D 124, H 3, HE 170	940	2750	29	95	40/28	on/off
901755.00X.1.76	D 124, H 3, HE 170	940	2750	29	95	40/28	DALI

Recessed downlights | HELEDON mini - Optic lens

Type of protection: IP 20

Protection class: II

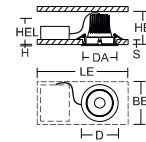
Ceiling thickness S: 1-20 mm

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With optical assembly polycarbonate lens. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Recessed downlights - Spot lens							Price Category 21

Ceiling cut out DA 114 mm

901743.00X	D 124, H 3, HE 170	930	2150	20	108	20	on/off
901743.00X.76	D 124, H 3, HE 170	930	2150	20	108	20	DALI
901743.00X.1	D 124, H 3, HE 170	940	2250	20	113	20	on/off
901743.00X.1.76	D 124, H 3, HE 170	940	2250	20	113	20	DALI
901751.00X	D 124, H 3, HE 170	930	3050	29	106	20	on/off
901751.00X.76	D 124, H 3, HE 170	930	3050	29	106	20	DALI
901751.00X.1	D 124, H 3, HE 170	940	3200	29	111	20	on/off
901751.00X.1.76	D 124, H 3, HE 170	940	3200	29	111	20	DALI

Recessed downlights - Medium lens							Price Category 21
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Ceiling cut out DA 114 mm

901744.00X	D 124, H 3, HE 170	930	2050	20	103	31	on/off
901744.00X.76	D 124, H 3, HE 170	930	2050	20	103	31	DALI
901744.00X.1	D 124, H 3, HE 170	940	2100	20	105	31	on/off
901744.00X.1.76	D 124, H 3, HE 170	940	2100	20	105	31	DALI
901752.00X	D 124, H 3, HE 170	930	2900	29	100	31	on/off
901752.00X.76	D 124, H 3, HE 170	930	2900	29	100	31	DALI
901752.00X.1	D 124, H 3, HE 170	940	3050	29	106	31	on/off
901752.00X.1.76	D 124, H 3, HE 170	940	3050	29	106	31	DALI

Recessed downlights - Flood lens							Price Category 21
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Ceiling cut out DA 114 mm

901745.00X	D 124, H 3, HE 170	930	1900	20	95	44	on/off
901745.00X.76	D 124, H 3, HE 170	930	1900	20	95	44	DALI
901745.00X.1	D 124, H 3, HE 170	940	2000	20	100	44	on/off
901745.00X.1.76	D 124, H 3, HE 170	940	2000	20	100	44	DALI
901753.00X	D 124, H 3, HE 170	930	2750	29	95	44	on/off
901753.00X.76	D 124, H 3, HE 170	930	2750	29	95	44	DALI
901753.00X.1	D 124, H 3, HE 170	940	2850	29	99	44	on/off
901753.00X.1.76	D 124, H 3, HE 170	940	2850	29	99	44	DALI

Recessed downlights - Extra wide flood lens							Price Category 21
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Ceiling cut out DA 114 mm

901746.00X	D 124, H 3, HE 170	930	2200	20	110	72	on/off
901746.00X.76	D 124, H 3, HE 170	930	2200	20	110	72	DALI
901746.00X.1	D 124, H 3, HE 170	940	2300	20	115	72	on/off
901746.00X.1.76	D 124, H 3, HE 170	940	2300	20	115	72	DALI
901754.00X	D 124, H 3, HE 170	930	3100	29	107	72	on/off
901754.00X.76	D 124, H 3, HE 170	930	3100	29	107	72	DALI
901754.00X.1	D 124, H 3, HE 170	940	3250	29	113	72	on/off
901754.00X.1.76	D 124, H 3, HE 170	940	3250	29	113	72	DALI

Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 42 W TC-TEL (47 W Psys)

1 x 35 W HIT (43 W Psys)

LED 29 W ≈

1 x 57 W TC-TEL (59 W Psys)

1 x 50 W HIT (56 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



Accessories:
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Recessed downlights | HELEDON maxi - Optic reflector

Type of protection: IP 20

Protection class: II

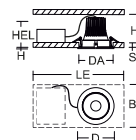
Ceiling thickness S: 1-20 mm

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With MIRO-SILVER® reflector. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 25 W ≈

1 x 35 W HIT (43 W Psys)

LED 35 W ≈

1 x 50 W HIT (56 W Psys)



Recessed downlights - Reflector spot

Price Category 21

Ceiling cut out DA 152 mm

901756.00X	D 162, H 3, HE 200	930	3050	25	122	12	on/off
901756.00X.76	D 162, H 3, HE 200	930	3050	25	122	12	DALI
901756.00X.1	D 162, H 3, HE 200	940	3200	25	128	12	on/off
901756.00X.1.76	D 162, H 3, HE 200	940	3200	25	128	12	DALI
901763.00X	D 162, H 3, HE 200	930	4000	35	115	12	on/off
901763.00X.76	D 162, H 3, HE 200	930	4000	35	115	12	DALI
901763.00X.1	D 162, H 3, HE 200	940	4200	35	120	12	on/off
901763.00X.1.76	D 162, H 3, HE 200	940	4200	35	120	12	DALI



Recessed downlights - Reflector medium

Price Category 21

Ceiling cut out DA 152 mm

901757.00X	D 162, H 3, HE 200	930	3150	25	126	21	on/off
901757.00X.76	D 162, H 3, HE 200	930	3150	25	126	21	DALI
901757.00X.1	D 162, H 3, HE 200	940	3300	25	132	21	on/off
901757.00X.1.76	D 162, H 3, HE 200	940	3300	25	132	21	DALI
901764.00X	D 162, H 3, HE 200	930	4200	35	120	21	on/off
901764.00X.76	D 162, H 3, HE 200	930	4200	35	120	21	DALI
901764.00X.1	D 162, H 3, HE 200	940	4300	35	123	21	on/off
901764.00X.1.76	D 162, H 3, HE 200	940	4300	35	123	21	DALI



Recessed downlights - Reflector flood

Price Category 21

Ceiling cut out DA 152 mm

901758.00X	D 162, H 3, HE 200	930	3150	25	126	33	on/off
901758.00X.76	D 162, H 3, HE 200	930	3150	25	126	33	DALI
901758.00X.1	D 162, H 3, HE 200	940	3350	25	134	33	on/off
901758.00X.1.76	D 162, H 3, HE 200	940	3350	25	134	33	DALI
901765.00X	D 162, H 3, HE 200	930	4200	35	120	33	on/off
901765.00X.76	D 162, H 3, HE 200	930	4200	35	120	33	DALI
901765.00X.1	D 162, H 3, HE 200	940	4350	35	125	33	on/off
901765.00X.1.76	D 162, H 3, HE 200	940	4350	35	125	33	DALI



Recessed downlights - Reflector wide flood

Price Category 21

Ceiling cut out DA 152 mm

901759.00X	D 162, H 3, HE 200	930	3050	25	122	65	on/off
901759.00X.76	D 162, H 3, HE 200	930	3050	25	122	65	DALI
901759.00X.1	D 162, H 3, HE 200	940	3200	25	128	65	on/off
901759.00X.1.76	D 162, H 3, HE 200	940	3200	25	128	65	DALI
901766.00X	D 162, H 3, HE 200	930	3950	35	113	65	on/off
901766.00X.76	D 162, H 3, HE 200	930	3950	35	113	65	DALI
901766.00X.1	D 162, H 3, HE 200	940	4200	35	120	65	on/off
901766.00X.1.76	D 162, H 3, HE 200	940	4200	35	120	65	DALI



Accessories:
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Recessed downlights | HELEDON maxi - Optic lens

Type of protection: IP 20

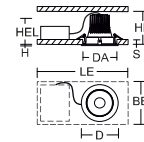
Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With optical assembly polycarbonate lens. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com


Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	[°]	Lighting control
Recessed downlights - Spot lens							
Ceiling cut out DA 152 mm							
901760.00X	D 162, H 3, HE 200	930	2700	25	108	13	on/off
901760.00X.76	D 162, H 3, HE 200	930	2700	25	108	13	DALI
901760.00X.1	D 162, H 3, HE 200	940	2800	25	112	13	on/off
901760.00X.1.76	D 162, H 3, HE 200	940	2800	25	112	13	DALI
901767.00X	D 162, H 3, HE 200	930	3500	35	100	13	on/off
901767.00X.76	D 162, H 3, HE 200	930	3500	35	100	13	DALI
901767.00X.1	D 162, H 3, HE 200	940	3700	35	106	13	on/off
901767.00X.1.76	D 162, H 3, HE 200	940	3700	35	106	13	DALI

Recessed downlights - Medium lens							
Ceiling cut out DA 152 mm							
901761.00X	D 162, H 3, HE 200	930	2600	25	104	31	on/off
901761.00X.76	D 162, H 3, HE 200	930	2600	25	104	31	DALI
901761.00X.1	D 162, H 3, HE 200	940	2700	25	108	31	on/off
901761.00X.1.76	D 162, H 3, HE 200	940	2700	25	108	31	DALI
901768.00X	D 162, H 3, HE 200	930	3400	35	98	31	on/off
901768.00X.76	D 162, H 3, HE 200	930	3400	35	98	31	DALI
901768.00X.1	D 162, H 3, HE 200	940	3550	35	102	31	on/off
901768.00X.1.76	D 162, H 3, HE 200	940	3550	35	102	31	DALI

Recessed downlights - Flood lens							
Ceiling cut out DA 152 mm							
901762.00X	D 162, H 3, HE 200	930	2650	25	106	42	on/off
901762.00X.76	D 162, H 3, HE 200	930	2650	25	106	42	DALI
901762.00X.1	D 162, H 3, HE 200	940	2800	25	112	42	on/off
901762.00X.1.76	D 162, H 3, HE 200	940	2800	25	112	42	DALI
901769.00X	D 162, H 3, HE 200	930	3450	35	99	42	on/off
901769.00X.76	D 162, H 3, HE 200	930	3450	35	99	42	DALI
901769.00X.1	D 162, H 3, HE 200	940	3650	35	105	42	on/off
901769.00X.1.76	D 162, H 3, HE 200	940	3650	35	105	42	DALI

**Comparison
LED vs. conventional lamps**
LED 25 W ≈

1 x 35 W HIT (43 W Psys)

LED 35 W ≈

1 x 50 W HIT (56 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°


 Accessories:
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Recessed downlights | HELEDON maxi - Food optic reflector

Type of protection: IP 20

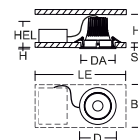
Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK06


Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With MIRO-SILVER® reflector and special food LED. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver



Food LED light colours show food in its best light:

- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	Lighting control
Recessed downlights - Reflector spot							Price Category 21
Ceiling cut out DA 152 mm							
901784.00X.2	D 162, H 3, HE 200	bakery	3300	33	100	17	on/off
901784.00X.2.76	D 162, H 3, HE 200	bakery	3300	33	100	17	DALI
901770.00X	D 162, H 3, HE 200	fresh meat	2100	33	64	17	on/off
901770.00X.76	D 162, H 3, HE 200	fresh meat	2100	33	64	17	DALI
901777.00X	D 162, H 3, HE 200	meat +	2200	33	67	17	on/off
901777.00X.76	D 162, H 3, HE 200	meat +	2200	33	67	17	DALI
Recessed downlights - Reflector medium							Price Category 21
Ceiling cut out DA 152 mm							
901785.00X.2	D 162, H 3, HE 200	bakery	3400	33	104	23	on/off
901785.00X.2.76	D 162, H 3, HE 200	bakery	3400	33	104	23	DALI
901771.00X	D 162, H 3, HE 200	fresh meat	2150	33	66	23	on/off
901771.00X.76	D 162, H 3, HE 200	fresh meat	2150	33	66	23	DALI
901778.00X	D 162, H 3, HE 200	meat +	2250	33	69	23	on/off
901778.00X.76	D 162, H 3, HE 200	meat +	2250	33	69	23	DALI
Recessed downlights - Reflector flood							Price Category 21
Ceiling cut out DA 152 mm							
901786.00X.2	D 162, H 3, HE 200	bakery	3450	33	105	33	on/off
901786.00X.2.76	D 162, H 3, HE 200	bakery	3450	33	105	33	DALI
901772.00X	D 162, H 3, HE 200	fresh meat	2150	33	66	33	on/off
901772.00X.76	D 162, H 3, HE 200	fresh meat	2150	33	66	33	DALI
901779.00X	D 162, H 3, HE 200	meat +	2250	33	69	33	on/off
901779.00X.76	D 162, H 3, HE 200	meat +	2250	33	69	33	DALI
Recessed downlights - Reflector wide flood							Price Category 21
Ceiling cut out DA 152 mm							
901787.00X.2	D 162, H 3, HE 200	bakery	3300	33	100	67	on/off
901787.00X.2.76	D 162, H 3, HE 200	bakery	3300	33	100	67	DALI
901773.00X	D 162, H 3, HE 200	fresh meat	2050	33	63	67	on/off
901773.00X.76	D 162, H 3, HE 200	fresh meat	2050	33	63	67	DALI
901780.00X	D 162, H 3, HE 200	meat +	2150	33	66	67	on/off
901780.00X.76	D 162, H 3, HE 200	meat +	2150	33	66	67	DALI



Accessories:
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Recessed downlights | HELEDON maxi - Food optic lens

Type of protection: IP 20

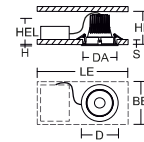
Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With optical assembly polycarbonate lens and special food LED. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver



Food LED light colours show food in its best light:

- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	
Recessed downlights - Spot lens							Price Category 21

Ceiling cut out DA 152 mm

901788.00X.2	D 162, H 3, HE 200	bakery	2950	33	90	17	on/off
901788.00X.2.76	D 162, H 3, HE 200	bakery	2950	33	90	17	DALI
901774.00X	D 162, H 3, HE 200	fresh meat	1800	33	55	17	on/off
901774.00X.76	D 162, H 3, HE 200	fresh meat	1800	33	55	17	DALI
901781.00X	D 162, H 3, HE 200	meat +	1900	33	58	17	on/off
901781.00X.76	D 162, H 3, HE 200	meat +	1900	33	58	17	DALI

Recessed downlights - Medium lens							Price Category 21
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Ceiling cut out DA 152 mm

901789.00X.2	D 162, H 3, HE 200	bakery	2850	33	87	35	on/off
901789.00X.2.76	D 162, H 3, HE 200	bakery	2850	33	87	35	DALI
901775.00X	D 162, H 3, HE 200	fresh meat	1750	33	54	35	on/off
901775.00X.76	D 162, H 3, HE 200	fresh meat	1750	33	54	35	DALI
901782.00X	D 162, H 3, HE 200	meat +	1850	33	57	35	on/off
901782.00X.76	D 162, H 3, HE 200	meat +	1850	33	57	35	DALI

Recessed downlights - Flood lens							Price Category 21
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Ceiling cut out DA 152 mm

901790.00X.2	D 162, H 3, HE 200	bakery	2900	33	88	44	on/off
901790.00X.2.76	D 162, H 3, HE 200	bakery	2900	33	88	44	DALI
901776.00X	D 162, H 3, HE 200	fresh meat	1800	33	55	44	on/off
901776.00X.76	D 162, H 3, HE 200	fresh meat	1800	33	55	44	DALI
901783.00X	D 162, H 3, HE 200	meat +	1900	33	58	44	on/off
901783.00X.76	D 162, H 3, HE 200	meat +	1900	33	58	44	DALI

Accessories:
Page 337





Accessories | HELEDON mini



Diffuser

Price Category 21

982370.000	D 74, H 3	Safety glass, clear.
982370.010	D 74, H 3	Safety glass, satin finish.

Decorative glasses

Price Category 21

982647.002	D 87, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.
982648.002	D 87, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.

Anti-glare honeycomb louvre

Price Category 21

982371.003	D 74, H 3	Aluminium, anodised matt black.
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Interchangeable plastic rings

Price Category 21

982419.002	D 82, H 20	White plastic ring for reflector.
982421.002	D 82, H 31	White plastic ring for lens.

Interchangeable optics

Price Category 21

982368.003	D 82, H 55	Reflector spot, narrow beam
982368.013	D 82, H 55	Reflector medium, medium beam
982368.023	D 82, H 55	Reflector flood, wide beam
982368.033	D 82, H 55	Reflector wide flood, very wide beam
982369.003	D 82, H 55	Spot lens, narrow beam
982369.013	D 82, H 55	Medium lens, medium beam
982369.023	D 82, H 55	Flood lens, wide beam
982369.033	D 82, H 55	Extra wide flood lens, extremely wide beam
982369.043	D 82, H 55	Lens with oval light distribution for corridor

Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box

Price Category 21

982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm ² or 3 x 2.5 mm ² possible.
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Compensating rings available for various ceiling cut outs!

Accessories | HELEDON maxi



Diffuser			Price Category 21
982374.000	D 111, H 3	Safety glass, clear.	
982374.010	D 111, H 3	Safety glass, satin finish.	



Decorative glasses			Price Category 21
982649.002	D 123, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.	
982650.002	D 123, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.	



Anti-glare honeycomb louvre			Price Category 21
982375.003	D 111, H 3	Aluminium, anodised matt black.	



Interchangeable plastic rings			Price Category 21
982420.002	D 118, H 20	White plastic ring for reflector.	
982422.002	D 118, H 33	White plastic ring for lens.	



Interchangeable optics			Price Category 21
982372.003	D 118, H 83	Reflector spot, narrow beam	
982372.013	D 118, H 83	Reflector medium, medium beam	
982372.023	D 118, H 83	Reflector flood, wide beam	
982372.033	D 118, H 83	Reflector wide flood, very wide beam	
982373.003	D 118, H 83	Spot lens, narrow beam	
982373.013	D 118, H 83	Medium lens, medium beam	
982373.023	D 118, H 83	Flood lens, wide beam	



Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box			Price Category 21
982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm ² or 3 x 2.5 mm ² possible.	



Compensating rings
available for various
ceiling cut outs!



superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°

PASCALA®

Everything at a glance

Suitable for ceiling
thicknesses of 6-35 mm.



Colour rendering index CRI >90
for true-to-life colour reproduction.

Round and square versions
with round ceiling cut-out.

Patented reflector made of
MIRO-SILVER® in round design
with total light reflection 98%.



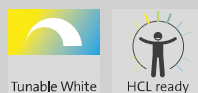
Ideal for office areas (UGR ≤ 19) and
environments with computer screens
in accordance with DIN EN 12464-1.

High quality converter without flickering and stroboscopic effect.

DALI converter is compatible with DC.



Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Tunable white versions, dynamically adjustable from 2700 K to 6500 K. Ideal for use as part of the Human Centric Lighting concept in connection with RZB light management systems.



MultiLumen version:

You can choose between 16 levels of luminous flux.

The luminous flux of the luminaire can be set on site in approx. 200 lm steps using DIP switches on the separate control gear.

MIRO-SILVER® – OPTIMAL REFLECTION

⊕ Reflection

A layer of the purest silver which is produced in a high vacuum, together with a reflection-enhanced layer system, enables a total light reflection of 98%.

⊕ Efficiency

Due to the extremely high reflectivity, light can be reflected almost with no losses. Reflection is the decisive factor for energy efficiency in reflector technology.

⊕ Colour neutral

The absolutely color-neutral reflecting surfaces have an extremely high long-term stability and can easily be cleaned.



Tunable White



HCL ready



UGR ≤ 19



MultiLumen



CRI
> 90



DALI



Casambi
smart+
free



reddot design award
winner 2012

PASCALA®

Recessed downlights

ARCHITECTURE

- Highly efficient recessed downlight with patented reflector made of MIRO-SILVER® in round design with total light reflection 98%.
- Brilliantly luminous corona at the light-emitting surfaces thanks to use of a specially designed cast aluminium ring as a reflector closure.
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.
- Environmentally friendly and resource-saving due to replaceable components.

LIGHTING DESIGN

- **MultiLumen:** 16 different luminous fluxes can be set on site in approx. 200 lm steps using DIP switches on the separate converter.
- Tunable white versions, dynamically adjustable from 2700 K to 6500 K.
- LED rated life 50000 h (L80/B10).
- Colour tolerance within 2 MacAdam ellipses (2 SDCM) with standard monochrome LED; 4 MacAdam ellipses (4 SDCM) with tunable white LED.
- DALI converter is compatible with DC.

INSTALLATION

- DALI variants suitable for through wiring as standard.
- With on/off suitable for through-wiring with separately available accessories.
- Large selection of decorative and functional accessory plates to be mounted additionally to the round versions.
- IP 54 to be achieved with corresponding accessories.

Recessed downlights | PASCALA square

Type of protection: IP 20

Protection class: II

Ceiling thickness S: 6-35 mm

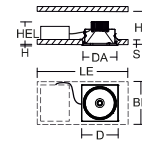
Impact protection: IK03

Mounting bracket: galvanised sheet steel. Inner ring and square cover plate: die-cast aluminium. Reflector material: MIRO-SILVER® with 98 percent total light reflection, Spring fastening system. Connected converter included in separate gearbox. With connecting cable (L 400 mm).

Available colours (X): 2 = white, 4 = silver

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.

MultiLumen: 16 steps adjustable luminous flux. Factory setting is step 5.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	UGR	Lighting control
Recessed downlights - Symmetrical light distribution							
Ceiling cut out DA 228 mm							
901805.00X	L 242, B 242, H 3, HE 160	930	1550...4700	11...39	141	57	15,5...19,3 on/off
901805.00X.76	L 242, B 242, H 3, HE 160	930	1550...4700	11...39	141	57	15,5...19,3 DALI
901805.00X.1	L 242, B 242, H 3, HE 160	940	1600...4900	11...39	146	57	15,5...19,4 on/off
901805.00X.1.76	L 242, B 242, H 3, HE 160	940	1600...4900	11...39	146	57	15,5...19,4 DALI
Tunable White - 2700 K to 6500 K							
901561.00X.2.76	L 242, B 242, H 3, HE 160	827-865	2900	30	97	54	16,1...16,4 DALI
901561.00X.2.730	L 242, B 242, H 3, HE 160	827-865	2900	30	97	54	16,1...16,4 smart+free
Recessed downlights - Asymmetrical light distribution							
Ceiling cut out DA 228 mm							
901806.00X	L 242, B 242, H 3, HE 175	930	1600...4750	11...39	146	27,9...31,7	on/off
901806.00X.76	L 242, B 242, H 3, HE 175	930	1600...4750	11...39	146	27,9...31,7	DALI
901806.00X.1	L 242, B 242, H 3, HE 175	940	1650...4950	11...39	150	28...31,8	on/off
901806.00X.1.76	L 242, B 242, H 3, HE 175	940	1650...4950	11...39	150	28...31,8	DALI
Tunable White - 2700 K to 6500 K							
901569.00X.2.76	L 242, B 242, H 3, HE 175	827-865	2800	30	94	29,8...30,1	DALI
901569.00X.2.730	L 242, B 242, H 3, HE 175	827-865	2800	30	94	29,8...30,1	smart+free

MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Comparison LED vs. conventional lamps

LED 11 W ≈

1 x 20 W HIT (23 W Psys)

LED 30 W ≈

1 x 35 W HIT (43 W Psys)

LED 39 W ≈

2 x 26 W TC-D (68 W Psys)
1 x 50 W HIT (56 W Psys)



Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter. Only required for on/off.

Through-wiring box			Price Category 21
982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm ² or 3 x 2.5 mm ² possible.	



Adjustable luminous flux MultiLumen

Symmetrical 901805.X			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	1550	1600	11
2	1780	1840	13
3	2000	2080	15
4	2230	2320	17
5	2450	2550	19
6	2660	2780	21
7	2880	3000	22
8	3090	3230	24
9	3300	3450	26
10	3500	3660	28
11	3700	3870	30
12	3900	4080	31
13	4100	4280	33
14	4300	4490	35
15	4500	4700	37
16	4700	4900	39

Asymmetrical 901806.X			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	1600	1650	11
2	1830	1890	13
3	2050	2130	15
4	2280	2370	17
5	2500	2600	19
6	2720	2830	21
7	2930	3050	22
8	3140	3280	24
9	3350	3500	26
10	3550	3710	28
11	3750	3920	30
12	3950	4130	31
13	4150	4330	33
14	4350	4540	35
15	4550	4750	37
16	4750	4950	39

Compensating rings available for various ceiling cut outs!





Recessed downlights | PASCALA round

Type of protection: IP 20, IP 54 with corresponding accessories

Protection class: II

Ceiling thickness S: 6-35 mm

Impact protection: IK03

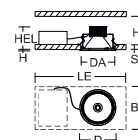
Mounting bracket: galvanised sheet steel. Inner and closure ring: die-cast aluminium.

Reflector material: MIRO-SILVER® with 98 percent total light reflection, Spring fastening system, Connected converter included in separate gearbox. With connecting cable (L 400 mm).

Available colours (X): 2 = white, 4 = silver

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.

MultiLumen: 16 steps adjustable luminous flux. Factory setting is step 5.



Comparison LED vs. conventional lamps

LED 11 W ≈

1 x 20 W HIT (23 W Psys)

LED 30 W ≈

1 x 35 W HIT (43 W Psys)

LED 39 W ≈

2 x 26 W TC-D (68 W Psys)

1 x 50 W HIT (56 W Psys)



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency ^a [lm/W]	UGR	Lighting control
Recessed downlights - Symmetrical light distribution							Price Category 21
Ceiling cut out DA 228 mm							
901803.00X	D 241, H 2, HE 160	930	1550...4700	11...39	141	57	15,5...19,3 on/off
901803.00X.76	D 241, H 2, HE 160	930	1550...4700	11...39	141	57	15,5...19,3 DALI
901803.00X.1	D 241, H 2, HE 160	940	1600...4900	11...39	146	57	15,5...19,4 on/off
901803.00X.1.76	D 241, H 2, HE 160	940	1600...4900	11...39	146	57	15,5...19,4 DALI
Tunable White - 2700 K to 6500 K							
901557.00X.2.76	D 241, H 2, HE 160	827-865	2900	30	97	54	16,1...16,4 DALI
901557.00X.2.730	D 241, H 2, HE 160	827-865	2900	30	97	54	16,1...16,4 smart+free

Recessed downlights - Asymmetrical light distribution							Price Category 21
Ceiling cut out DA 228 mm							
901804.00X	D 241, H 2, HE 160	930	1600...4750	11...39	146	27,9...31,7	on/off
901804.00X.76	D 241, H 2, HE 160	930	1600...4750	11...39	146	27,9...31,7	DALI
901804.00X.1	D 241, H 2, HE 160	940	1650...4950	11...39	150	28...31,8	on/off
901804.00X.1.76	D 241, H 2, HE 160	940	1650...4950	11...39	150	28...31,8	DALI
Tunable White - 2700 K to 6500 K							
901565.00X.2.76	D 241, H 2, HE 175	827-865	2800	30	94	29,8...30,1	DALI
901565.00X.2.730	D 241, H 2, HE 175	827-865	2800	30	94	29,8...30,1	smart+free

MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.



Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter. Only required for on/off.

Through-wiring box			Price Category 21
982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1,5 mm ² or 3 x 2,5 mm ² possible.	

Adjustable luminous flux MultiLumen

Symmetrical 901805.X			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	1550	1600	11
2	1780	1840	13
3	2000	2080	15
4	2230	2320	17
5	2450	2550	19
6	2660	2780	21
7	2880	3000	22
8	3090	3230	24
9	3300	3450	26
10	3500	3660	28
11	3700	3870	30
12	3900	4080	31
13	4100	4280	33
14	4300	4490	35
15	4500	4700	37
16	4700	4900	39

Asymmetrical 901806.X			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	1600	1650	11
2	1830	1890	13
3	2050	2130	15
4	2280	2370	17
5	2500	2600	19
6	2720	2830	21
7	2930	3050	22
8	3140	3280	24
9	3350	3500	26
10	3550	3710	28
11	3750	3920	30
12	3950	4130	31
13	4150	4330	33
14	4350	4540	35
15	4550	4750	37
16	4750	4950	39



Compensating rings available for various ceiling cut outs!

Accessories | PASCALA round

Available colours (X): 2 = white, 4 = silver

Not suitable for mounting to SQUARE version of Pascala.

Reference
number

Accessories Round

Price Category 21

for mounting to ROUND version of PASCALA

Diffuser: safety glass (IP 54)

981753.00X	transparent
981753.01X	matt
981753.02X	centre: matt
981753.03X	centre: transparent

Decorative rings, satin finish (coloured), D 246 mm, H 14 mm

981754.00X	clear
981754.03X	red
981754.04X	green
981754.05X	blue
981754.06X	yellow

Decorative designer glass cover with lens, IP 54, D 246 mm, H 34 mm

981757.00X	transparent
981757.01X	matt
981757.02X	covering surface: transparent; floor: matt
981757.03X	covering surface: transparent; floor: partially matt (with transparent centre)

Decorative attachment (hanging down), D 265 mm, H 35 mm

981758.000	transparent
981758.002	matt
981758.010	centre: matt
981758.020	centre: transparent



Accessories Round with square cover plate

Price Category 21

for mounting to ROUND version of PASCALA

Diffuser: safety glass IP 54, L 246 mm, B 246 mm, H 14 mm

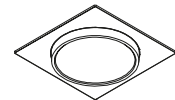
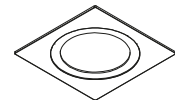
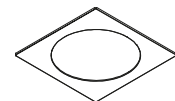
981895.00X	transparent
981895.01X	matt
981895.02X	centre: matt
981895.03X	centre: transparent

Decorative rings, satin finish (coloured), L 246 mm, B 246 mm, H 14 mm

981896.00X	transparent
981896.03X	red
981896.04X	green
981896.05X	blue
981896.06X	yellow

Decorative glass cover, IP 54, L 246 mm, B 246 mm, H 34 mm

981899.00X	transparent
981899.01X	matt
981899.02X	covering surface: transparent; floor: matt
981899.03X	covering surface: transparent; floor: partially matt (with transparent centre)





DALI



QUARDO®

Recessed downlights

ARCHITECTURE

- High-quality recessed downlight with square luminous surface.
- Open version for top efficiency, and square light pyramid.
- Version with recessed satin-finish cover plate for harmonious lighting and attractive luminaire design.

LIGHTING DESIGN

- LED rated life 50000 h (L90/B10).
- Colour tolerance within 2-steps MacAdam (2 SDCM).
- High quality converter without flickering and stroboscopic effect.

INSTALLATION

- Separate converter box with connecting cable.
- Easy to install thanks to tool-free spring fastening system.
- Suitable for through-wiring with separately available accessories.

Recessed downlights | QUARDO

Type of protection: IP 20

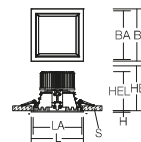
Protection class: II

Ceiling thickness S: 1-30 mm

Impact protection: IK03

Recessed frame: die-cast aluminium, powder-coated. Mounting bracket: galvanised sheet steel.
Reflector: aluminium, highly polished anodised finish. Open or with recessed diffuser in satin-finish polycarbonate. Ceiling installation with spring system. Including separate LED converter with connecting cable 600 mm.

Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	lighting control
Recessed downlights								
Ceiling cut out LA 165 x BA 165 mm								
Open version								
901705.002	L 176, B 176, H 4, HE 150	830	2500	19	132	87/88	21,9	on/off
901705.002.76	L 176, B 176, H 4, HE 150	830	2500	19	132	87/88	21,9	DALI
901705.002.1	L 176, B 176, H 4, HE 150	840	2600	19	137	87/88	22,1	on/off
901705.002.1.76	L 176, B 176, H 4, HE 150	840	2600	19	137	87/88	22,1	DALI
901706.002	L 176, B 176, H 4, HE 150	830	4200	37	114	87/88	23,8	on/off
901706.002.76	L 176, B 176, H 4, HE 150	830	4200	37	114	87/88	23,8	DALI
901706.002.1	L 176, B 176, H 4, HE 150	840	4450	37	121	87/88	24	on/off
901706.002.1.76	L 176, B 176, H 4, HE 150	840	4450	37	121	87/88	24	DALI
Includes satin-finish diffuser								
901707.002	L 176, B 176, H 4, HE 150	830	2300	19	122	88	24,9	on/off
901707.002.76	L 176, B 176, H 4, HE 150	830	2300	19	122	88	24,9	DALI
901707.002.1	L 176, B 176, H 4, HE 150	840	2400	19	127	88	25,1	on/off
901707.002.1.76	L 176, B 176, H 4, HE 150	840	2400	19	127	88	25,1	DALI
901708.002	L 176, B 176, H 4, HE 150	830	3900	37	106	88	26,8	on/off
901708.002.76	L 176, B 176, H 4, HE 150	830	3900	37	106	88	26,8	DALI
901708.002.1	L 176, B 176, H 4, HE 150	840	4150	37	113	88	27	on/off
901708.002.1.76	L 176, B 176, H 4, HE 150	840	4150	37	113	88	27	DALI

Ra > 90 options on request

Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box			Price Category 21
982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm ² or 3 x 2.5 mm ² possible.	

**Comparison
LED vs. conventional lamps**

LED 19 W ≈
1 x 35 W HIT (43 W Psys)

LED 37 W ≈
1 x 50 W HIT (56 W Psys)



Compensating rings
available for various
ceiling cut outs!





LEDONA®

Recessed downlights

ARCHITECTURE

- Recessed LED downlight featuring advanced technology and sophisticated design.
- IP 65 version also keeps the protection for the intermediate ceiling; this in turn means optimum protection against dust or moisture (does not apply to converter, IP 20).
- IP 65 versions with ball impact protection in accordance with DIN 18032-03.
- IP 65 versions with Gore™ Protective Vents diaphragm valve to avoid condensation.
- IP 65 versions suitable for use in the food and drink industry.
- Environmentally friendly and resource-saving due to replaceable components.

LIGHTING DESIGN

- **MultiLumen:** up to 16 different luminous fluxes can be set on site in approx. 200 lm steps using DIP switches on the separate converter.
- Tunable white versions, dynamically adjustable from 2700 K to 6500 K.
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.
- LED rated life 50000 h (L80/B10).
- Colour tolerance within 2 MacAdam ellipses (2 SDCM) with standard monochrome LED; 4 MacAdam ellipses (4 SDCM) with tunable white LED.

INSTALLATION

- DALI converter is compatible with DC.
- DALI variants suitable for through wiring as standard.
- With on/off suitable for through-wiring with separately available accessories.
- Round ceiling cut-out also with square types.
- Easy to install thanks to tool-free spring fastening system.

Tunable white versions, dynamically adjustable from 2700 K to 6500 K.

Ideal for use as part of the Human Centric Lighting concept in connection with RZB light management systems.



Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Passive cooling system.



Colour rendering index CRI >90 for true-to-life colour reproduction.

Unique light mixing chamber provides harmonized lighting and advanced anti-glare properties, as well as high LORs.

Four-segment aluminium faceted reflector surface-structured for IP 65 or mirror finish for IP 20.

LEDONA ROUND IP 20



MultiLumen version:

You can choose between up to 16 levels of luminous flux.

The luminous flux of the luminaire can be set on site in approx. 200 lm steps using DIP switches on the separate control gear.

IP65

Keeps the protection for the intermediate ceiling; this in turn means optimum protection against dust or moisture (does not apply to converter, IP 20).

With Gore™ Protective Vents diaphragm valve to avoid condensation.

Easy to install thanks to tool-free spring fastening system.

Single-layer safety glass diffuser.



Ball impact protection in accordance with DIN 18032-03.



Suitable for use in the food and drink industry.

LEDONA ROUND IP 65



Comparison LED vs. conventional lamps

LED 12 / 16 W ≈

1 x 20 W HIT (23 W Psys)

LED 25 / 30 W ≈

1 x 35 W HIT (43 W Psys)

LED 39 / 41 W ≈

1 x 50 W HIT (56 W Psys)

Recessed downlights | LEDONA round IP20

Type of protection: IP 20

Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK03

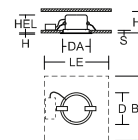
Housing: die-cast aluminium constructed as heat sink. Bezel ring: die-cast aluminium, powder coated. Open version. Faceted aluminium reflector high gloss, with high gloss light mixing chamber. Spring fastening system. Connected converter included in separate gearbox. With connecting cable (L 250 mm).

Available colour: 2 = white

MultiLumen: up to 16 steps adjustable luminous flux.

Factory setting: D 140 - 12 W | D 180 - 16 W | D 230 - 27 W

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency ^a [lm/W]	UGR	Lighting control
Recessed downlights							Price Category 21
Ceiling cut out DA 120 mm							
901791.002	D 140, H 3, HE 79	930	1500...3000	12...25	127	55	on/off
901791.002.76	D 140, H 3, HE 79	930	1500...3000	12...25	127	55	DALI
901791.002.1	D 140, H 3, HE 79	940	1600...3200	12...25	135	55	on/off
901791.002.1.76	D 140, H 3, HE 79	940	1600...3200	12...25	135	55	DALI
Tunable White - 2700 K to 6500 K							
901517.002.2.76	D 140, H 3, HE 105	827-865	1350	16	88	62	DALI
901517.002.2.730	D 140, H 3, HE 105	827-865	1350	16	88	62	smart+free
Ceiling cut out DA 160 mm							
901795.002	D 180, H 3, HE 89	930	1550...4400	12...39	130	64	on/off
901795.002.76	D 180, H 3, HE 89	930	1550...4400	12...39	130	64	DALI
901795.002.1	D 180, H 3, HE 89	940	1600...4700	12...39	137	64	on/off
901795.002.1.76	D 180, H 3, HE 89	940	1600...4700	12...39	137	64	DALI
Tunable White - 2700 K to 6500 K							
901519.002.2.76	D 180, H 3, HE 89	827-865	2600	30	87	71	DALI
901519.002.2.730	D 180, H 3, HE 89	827-865	2600	30	87	71	smart+free
Ceiling cut out DA 210 mm							
901799.002	D 230, H 3, HE 108	930	1550...4700	12...41	132	90	on/off
901799.002.76	D 230, H 3, HE 108	930	1550...4700	12...41	132	90	DALI
901799.002.1	D 230, H 3, HE 108	940	1650...5050	12...41	140	90	on/off
901799.002.1.76	D 230, H 3, HE 108	940	1650...5050	12...41	140	90	DALI

MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.



Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter. Only required for on/off.

Through-wiring box			Price Category 21
982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm ² or 3 x 2.5 mm ² possible.	



Recessed downlights | LEDONA round IP65

Type of protection: **IP 65**, Converter IP 20

Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK07

Housing: die-cast aluminium constructed as heat sink, Bezel ring: die-cast aluminium, powder coated, Closed version, Standard Gore™ Protective Vents diaphragm valve to avoid condensation, LED diffuser made of safety glass, Faceted aluminium reflector satin-matt, with high gloss light mixing chamber, Spring fastening system, Connected converter included in separate gearbox, With connecting cable (L 250 mm).

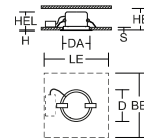
Ball impact proof in accordance with DIN 18032-03.

Available colour: 2 = white

MultiLumen: up to 16 steps adjustable luminous flux.

Factory setting: D 140 - 12 W | D 180 - 16 W | D 230 - 27 W

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 12 / 16 W ≈

1 x 20 W HIT (23 W Psys)

LED 25 / 30 W ≈

1 x 35 W HIT (43 W Psys)

LED 39 / 41 W ≈

1 x 50 W HIT (56 W Psys)

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α	UGR	Lighting control	Price Category 21
Recessed downlights									
Ceiling cut out DA 120 mm									
901793.002	D 140, H 3, HE 82	930	1450...3000	12...25	122	50	19,3...21,8	on/off	
901793.002.76	D 140, H 3, HE 82	930	1450...3000	12...25	122	50	19,3...21,8	DALI	
901793.002.1	D 140, H 3, HE 82	940	1500...3100	12...25	129	50	19,4...21,9	on/off	
901793.002.1.76	D 140, H 3, HE 82	940	1500...3100	12...25	129	50	19,4...21,9	DALI	
Tunable White - 2700 K to 6500 K									
901524.002.2.76	D 140, H 3, HE 105	827-865	1350	16	85	61	19,4...19,7	DALI	
901524.002.2.730	D 140, H 3, HE 105	827-865	1350	16	85	61	19,4...19,7	smart+free	
Ceiling cut out DA 160 mm									
901797.002	D 180, H 3, HE 92	930	1500...4300	12...39	125	65	18,4...22,1	on/off	
901797.002.76	D 180, H 3, HE 92	930	1500...4300	12...39	125	65	18,4...22,1	DALI	
901797.002.1	D 180, H 3, HE 92	940	1550...4500	12...39	132	65	18,5...22,2	on/off	
901797.002.1.76	D 180, H 3, HE 92	940	1550...4500	12...39	132	65	18,5...22,2	DALI	
Tunable White - 2700 K to 6500 K									
901526.002.2.76	D 180, H 3, HE 92	827-865	2450	30	84	72	20,2...20,4	DALI	
901526.002.2.730	D 180, H 3, HE 92	827-865	2450	30	84	72	20,2...20,4	smart+free	
Ceiling cut out DA 210 mm									
901801.002	D 230, H 3, HE 111	930	1500...4550	12...41	129	91	19,4...23,3	on/off	
901801.002.76	D 230, H 3, HE 111	930	1500...4550	12...41	129	91	19,4...23,3	DALI	
901801.002.1	D 230, H 3, HE 111	940	1600...4950	12...41	137	91	19,7...23,6	on/off	
901801.002.1.76	D 230, H 3, HE 111	940	1600...4950	12...41	137	91	19,7...23,6	DALI	

MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter. Only required for on/off.

Through-wiring box			Price Category 21
982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm² or 3 x 2.5 mm² possible.	



Compensating rings
available for various
ceiling cut outs!





Comparison LED vs. conventional lamps

LED 12 / 16 W ≈

1 x 20 W HIT (23 W Psys)

LED 25 / 30 W ≈

1 x 35 W HIT (43 W Psys)

LED 39 / 41 W ≈

1 x 50 W HIT (56 W Psys)

Recessed downlights | LEDONA square IP20

Type of protection: IP 20

Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK03

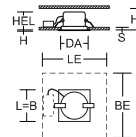
Housing: die-cast aluminium constructed as heat sink, Square cover plate: die-cast aluminium, powder-coated, Open version, Faceted aluminium reflector high gloss, with high gloss light mixing chamber, Spring fastening system, Connected converter included in separate gearbox, With connecting cable (L 250 mm).

Available colour: 2 = white

MultiLumen: up to 16 steps adjustable luminous flux.

Factory setting: L/B 130 - 12 W | L/B 170 - 16 W | L/B 220 - 27 W

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency ¹ [lm/W]	UGR [°]	Lighting control
Recessed downlights							Price Category 21
Ceiling cut out DA 120 mm							
901792.002	L 130, B 130, H 3, HE 79	930	1500...3000	12...25	127	55	19,3...21,7 on/off
901792.002.76	L 130, B 130, H 3, HE 79	930	1500...3000	12...25	127	55	19,3...21,7 DALI
901792.002.1	L 130, B 130, H 3, HE 79	940	1600...3200	12...25	135	55	19,5...21,9 on/off
901792.002.1.76	L 130, B 130, H 3, HE 79	940	1600...3200	12...25	135	55	19,5...21,9 DALI
Tunable White - 2700 K to 6500 K							
901531.002.2.76	L 130, B 130, H 3, HE 105	827-865	1350	16	88	62	19,4...19,5 DALI
901531.002.2.730	L 130, B 130, H 3, HE 105	827-865	1350	16	88	62	19,4...19,5 smart+free
Ceiling cut out DA 160 mm							
901796.002	L 170, B 170, H 3, HE 89	930	1550...4400	12...39	130	64	18,2...21,8 on/off
901796.002.76	L 170, B 170, H 3, HE 89	930	1550...4400	12...39	130	64	18,2...21,8 DALI
901796.002.1	L 170, B 170, H 3, HE 89	940	1600...4700	12...39	137	64	18,3...22,1 on/off
901796.002.1.76	L 170, B 170, H 3, HE 89	940	1600...4700	12...39	137	64	18,3...22,1 DALI
Tunable White - 2700 K to 6500 K							
901533.002.2.76	L 170, B 170, H 3, HE 89	827-865	2600	30	87	71	20,3...20,6 DALI
901533.002.2.730	L 170, B 170, H 3, HE 89	827-865	2600	30	87	71	20,3...20,6 smart+free
Ceiling cut out DA 210 mm							
901800.002	L 220, B 220, H 3, HE 108	930	1550...4700	12...41	132	90	19,5...23,3 on/off
901800.002.76	L 220, B 220, H 3, HE 108	930	1550...4700	12...41	132	90	19,5...23,3 DALI
901800.002.1	L 220, B 220, H 3, HE 108	940	1650...5050	12...41	140	90	19,7...23,6 on/off
901800.002.1.76	L 220, B 220, H 3, HE 108	940	1650...5050	12...41	140	90	19,7...23,6 DALI

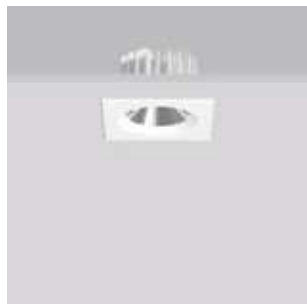
MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.



Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter. Only required for on/off.

Through-wiring box			Price Category 21
982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm ² or 3 x 2.5 mm ² possible.	



Recessed downlights | LEDONA square IP65

Type of protection: **IP 65**, Converter IP 20

Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK07

Housing: die-cast aluminium constructed as heat sink, Square cover plate: die-cast aluminium, powder-coated, Closed version, Standard Gore™ Protective Vents diaphragm valve to avoid condensation, LED diffuser made of safety glass, Faceted aluminium reflector satin-matt, with high gloss light mixing chamber, Spring fastening system, Connected converter included in separate gearbox. With connecting cable (L 250 mm).

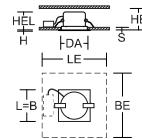
Ball impact proof in accordance with DIN 18032-03.

Available colour: 2 = white

MultiLumen: up to 16 steps adjustable luminous flux.

Factory setting: L/B 130 - 12 W | L/B 170 - 16 W | L/B 220 - 27 W

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 12 / 16 W ≈

1 x 20 W HIT (23 W Psys)

LED 25 / 30 W ≈

1 x 35 W HIT (43 W Psys)

LED 39 / 41 W ≈

1 x 50 W HIT (56 W Psys)

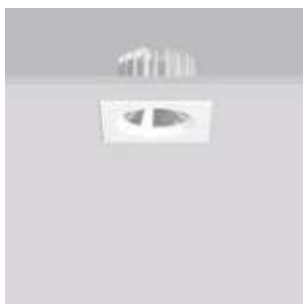
Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control	Price Category 21
Recessed downlights									
Ceiling cut out DA 120 mm									
901794.002	L 130, B 130, H 3, HE 82	930	1450...3000	12...25	122	50	19,3...21,8	on/off	
901794.002.76	L 130, B 130, H 3, HE 82	930	1450...3000	12...25	122	50	19,3...21,8	DALI	
901794.002.1	L 130, B 130, H 3, HE 82	940	1500...3100	12...25	129	50	19,4...21,9	on/off	
901794.002.1.76	L 130, B 130, H 3, HE 82	940	1500...3100	12...25	129	50	19,4...21,9	DALI	
Tunable White - 2700 K to 6500 K									
901538.002.2.76	L 130, B 130, H 3, HE 105	827-865	1350	16	85	61	19,4...19,7	DALI	
901538.002.2.730	L 130, B 130, H 3, HE 105	827-865	1350	16	85	61	19,4...19,7	smart+free	
Ceiling cut out DA 160 mm									
901798.002	L 170, B 170, H 3, HE 92	930	1500...4300	12...39	125	65	18,4...22,1	on/off	
901798.002.76	L 170, B 170, H 3, HE 92	930	1500...4300	12...39	125	65	18,4...22,1	DALI	
901798.002.1	L 170, B 170, H 3, HE 92	940	1550...4500	12...39	132	65	18,5...22,2	on/off	
901798.002.1.76	L 170, B 170, H 3, HE 92	940	1550...4500	12...39	132	65	18,5...22,2	DALI	
Tunable White - 2700 K to 6500 K									
901540.002.2.76	L 170, B 170, H 3, HE 92	827-865	2450	30	84	72	20,2...20,4	DALI	
901540.002.2.730	L 170, B 170, H 3, HE 92	827-865	2450	30	84	72	20,2...20,4	smart+free	
Ceiling cut out DA 210 mm									
901802.002	L 220, B 220, H 3, HE 111	930	1500...4550	12...41	129	91	19,4...23,3	on/off	
901802.002.76	L 220, B 220, H 3, HE 111	930	1500...4550	12...41	129	91	19,4...23,3	DALI	
901802.002.1	L 220, B 220, H 3, HE 111	940	1600...4950	12...41	137	91	19,7...23,6	on/off	
901802.002.1.76	L 220, B 220, H 3, HE 111	940	1600...4950	12...41	137	91	19,7...23,6	DALI	

MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter. Only required for on/off.

Through-wiring box			Price Category 21
982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm² or 3 x 2.5 mm² possible.	



Compensating rings
available for various
ceiling cut outs!





Phase-cut



HACCP



IP65

IK07

LEDONA® ECO

Recessed downlights

ARCHITECTURE

- Recessed LED downlight to fulfill highest demands.
- IP 65 rating also for the intermediate ceiling; this in turn means optimum protection against dust or moisture.
- With Gore™ Protective Vents diaphragm valve to avoid condensation.
- Qualified for use in the food and drink industry.
- Environmentally friendly and resource-saving due to replaceable components.

LIGHTING DESIGN

- Ball impact proof in accordance with DIN 18032-03.
- Shockproof cover made of plastic (opal).
- LED rated life 50000 h (L70/B30).
- Colour tolerance within 3-steps MacAdam (3 SDCM).
- Dimmable with standard trailing or leading edge dimmers.

INSTALLATION

- Direct connection to 220-240 V AC, i.e. no converter needed.
- Exchangeable mains voltage LED.
- Round ceiling cut-out also with square types.
- Easy to install thanks to tool-free spring fastening system.

Recessed downlights | LEDONA ECO round

Type of protection: **IP 65**

Protection class: **I**

Ceiling thickness S: 1-20 mm

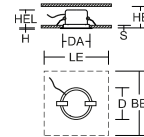
Impact protection: **IK07**

Bezel ring and housing: die-cast aluminium, powder-coated. Cover: plastic, opal. Standard Gore™

Protective Vents diaphragm valve to avoid condensation. Ceiling installation with spring system. 2 meter connecting cable with open wire ends. No converter required.

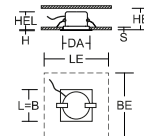
Ball impact proof in accordance with DIN 18032-03.

Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control
Recessed downlights								
Ceiling cut out DA 120 mm								
901431.002	D 140, H 3, HE 82	830	660	10	66	108	25,1	Phase-cut
901431.002.1	D 140, H 3, HE 82	840	690	10	69	108	27,4	Phase-cut
Ceiling cut out DA 160 mm								
901433.002	D 180, H 3, HE 92	830	740	10	74	108	25,5	Phase-cut
901433.002.1	D 180, H 3, HE 92	840	780	10	78	108	27,8	Phase-cut
901434.002	D 180, H 3, HE 92	830	1500	20	75	109	28	Phase-cut
901434.002.1	D 180, H 3, HE 92	840	1600	20	80	109	28,2	Phase-cut
Ceiling cut out DA 210 mm								
901454.002	D 230, H 2, HE 111	830	2200	30	74	110	27,5	Phase-cut
901454.002.1	D 230, H 2, HE 111	840	2400	30	80	110	27,8	Phase-cut

Dimmable via phase cut dimmer (10–100%)



Recessed downlights | LEDONA ECO square

Type of protection: **IP 65**

Protection class: **I**

Ceiling thickness S: 1-20 mm

Impact protection: **IK07**

Square cover and housing: die-cast aluminium, powder-coated. Cover: plastic, opal. Standard Gore™ Protective Vents diaphragm valve to avoid condensation. Ceiling installation with spring system. 2 meter connecting cable with open wire ends. No converter required.

Ball impact proof in accordance with DIN 18032-03.

Available colour: 2 = white

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control
Recessed downlights								
Ceiling cut out DA 120 mm								
901435.002	L 130, B 130, H 3, HE 82	830	660	10	66	108	25,1	Phase-cut
901435.002.1	L 130, B 130, H 3, HE 82	840	690	10	69	108	27,4	Phase-cut
Ceiling cut out DA 160 mm								
901437.002	L 170, B 170, H 3, HE 92	830	740	10	74	108	25,5	Phase-cut
901437.002.1	L 170, B 170, H 3, HE 92	840	780	10	78	108	27,8	Phase-cut
901438.002	L 170, B 170, H 3, HE 92	830	1500	20	75	109	28	Phase-cut
901438.002.1	L 170, B 170, H 3, HE 92	840	1600	20	80	109	28,2	Phase-cut
Ceiling cut out DA 210 mm								
901455.002	L 220, B 220, H 3, HE 111	830	2200	30	74	110	27,5	Phase-cut
901455.002.1	L 220, B 220, H 3, HE 111	840	2400	30	80	110	27,8	Phase-cut

Dimmable via phase cut dimmer (10–100%)

Comparison LED vs. conventional lamps

LED 10 W ≈
1 x 18 W TC-D (26 W Psys)

LED 20 W ≈
2 x 18 W TC-D (52 W Psys)



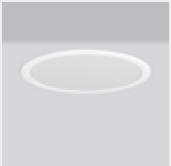
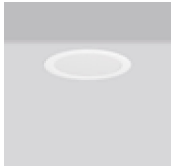
















LED 30 W ≈
2 x 26 W TC-D (68 W Psys)






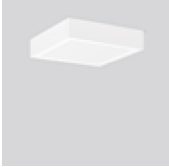



Compensating rings available for various ceiling cut outs!

Overview - TOLEDO FLAT family

This table provides an overview of the uniquely wide variety of the TOLEDO FLAT family from RZB. As a recessed, surface-mounted and pendant luminaire with a wide variety of sizes and luminous flux levels, this series is predestined for an exceptionally wide range of applications.

		TOLEDO FLAT round	TOLEDO FLAT square	TOLEDO FLAT PRO	TOLEDO FLAT+ round	TOLEDO FLAT+ square
						
						
Diffuser		PMMA opal microprismatic	PMMA opal	Polycarbonate smooth, satin finish microprismatic	PMMA opal microprismatic	PMMA opal microprismatic
Base		die-cast aluminium	die-cast aluminium	die-cast aluminium	Housing: sheet steel, luminaire frame: aluminium powder-coated	Housing: sheet steel, luminaire frame: aluminium powder-coated
Type of protection		IP 20 IP 54 on room side	IP 20 IP 54 on room side	IP 20 IP 54 on room side	IP 20 IP 54 on room side	IP 20 IP 54 on room side
Size [mm]		148 190 255 317 495	110 172 225 300	495	165 270 390 470	150 230 310
MultiLumen/MultiColour	 MultiLumen  MultiColour				✓ ✓ ✓ ✓	✓ ✓ ✓
Suitable for computer workstations	 UGR < 19			✓	✓ ✓	
Colour tolerance: MacAdam SDCM		4	4	3	3	3
	 CRI > 90			✓		
Tunable White	 Tunable White	✓ ✓ ✓	✓ ✓	✓	✓ ✓ ✓ ✓	✓ ✓ ✓
Casambi smart+free*	 Casambi smart+free	✓ ✓ ✓	✓ ✓	✓	✓ ✓ ✓ ✓	✓ ✓ ✓
Constant Light Output (CLO)	 Constant Light Output			✓		
Movement sensor		✓	✓		✓ ✓ ✓ ✓	✓ ✓ ✓
Corridor Function	 Corridor Function	✓	✓			
Master-Slave system	 Master-Slave	✓	✓		✓ ✓ ✓ ✓	✓ ✓ ✓
Bluetooth® Mesh	 Bluetooth® Mesh	✓	✓			
Fabric shade with chintz		✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓			
Available as emergency luminaire		✓ ✓ ✓ ✓	✓ ✓ ✓ ✓			
More information on page		360-361	362-363	369	374-375	376-377

TOLEDO FLAT round	TOLEDO FLAT round	TOLEDO FLAT square	TOLEDO FLAT PRO	TOLEDO FLAT+ round	TOLEDO FLAT+ square	TOLEDO FLAT round
						
PMMA opal microprismatic	PMMA opal microprismatic	PMMA opal	Polycarbonate smooth, satin finish microprismatic	PMMA opal microprismatic	PMMA opal microprismatic	PMMA opal
sheet steel, powder coated	sheet steel, powder coated	sheet steel, powder coated	sheet steel, powder coated	die-cast aluminium	die-cast aluminium	die-cast aluminium and sheet steel, powder coated
IP 40	IP 40	IP 40	IP 40	IP 40	IP 40	IP 20
595 622	150 192 257 319 500	110 172 225 300	500	165 270 390 470	150 230 310	192 257 319
				✓ ✓ ✓ ✓	✓ ✓ ✓	
			✓	✓ ✓		
4	4	4	3	3	3	4
			✓			
			✓	✓ ✓ ✓ ✓	✓ ✓ ✓	
			✓	✓ ✓ ✓ ✓	✓ ✓ ✓	
			✓			
	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓				✓ ✓ ✓
	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓				
55	395	396	399	402	403	287

TOLEDO FLAT

Everything at a glance



Master-Slave

Bluetooth® Mesh

Corridor Function

HF motion detector with **Bluetooth® interfaces** and DALI broadcast interfaces for switching, dimming and networking from individual luminaires up to complex light installations.

Mesh sensors create a wireless connection between each other. This allows for flexible configuration via smartphone or tablet.

Alternatively: low-cost HF motion detector EASY for direct setting of the sensor via buttons, also with master-slave wiring option.

Suitable for ceiling thicknesses of 1-20 mm.

Can be directly covered with thermal insulation material.

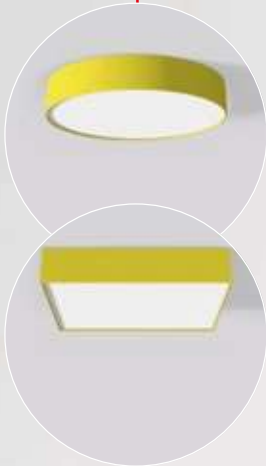
Ultra thin recessed downlight.

IP54

High type of protection (room side).

Retrofittable decorative cylinders made of chintz fabric in a wide range of colours.

Lightguide and plastic **diffuser** made of **non-yellowing PMMA**.





Very easy plug-in installation
(Quick connector).

DALI converter is compatible with DC,
suitable for central battery system.



Versions with Casambi smart+free Bluetooth®
control for wireless network and operation
using Android / iOS devices, free app available
for download.



Tunable white versions, dynamically
adjustable from 2700 K to 6500 K.
Ideal for use as part of the Human
Centric Lighting concept in connection
with RZB light management systems.

Recessed / surface-mounted downlights and
fabric lampshade luminaires available in round and
square shapes as well as recessed modular
pendant luminaires and emergency lighting.





Tunable White



HCL ready

DALI



Casambi
smart+
free



Master-Slave



Bluetooth®
Mesh



Corridor
Function



Plug & Play



IP 54



TOLEDO FLAT

Recessed downlights

ARCHITECTURE

- **Design-oriented:** Minimalist design. Shallow recessed depth.
- **Protected:** High protection type IP 54 on the room side.
- **Advantageous:** Tunable White versions are predestined for use in the context of Human Centric Lighting (HCL) in combination with RZB light management systems.
- **Safe:** Also available as an emergency luminaire in accordance with EN 60598-2-22.
- **Applicable:** Corridors, side rooms, hotels, restaurants, conference rooms, private rooms.



Further luminaires of this series, see:

Indoor lighting | Recessed modular luminaires

Indoor lighting | Pendant luminaires

Indoor lighting | Fabric lampshade luminaires

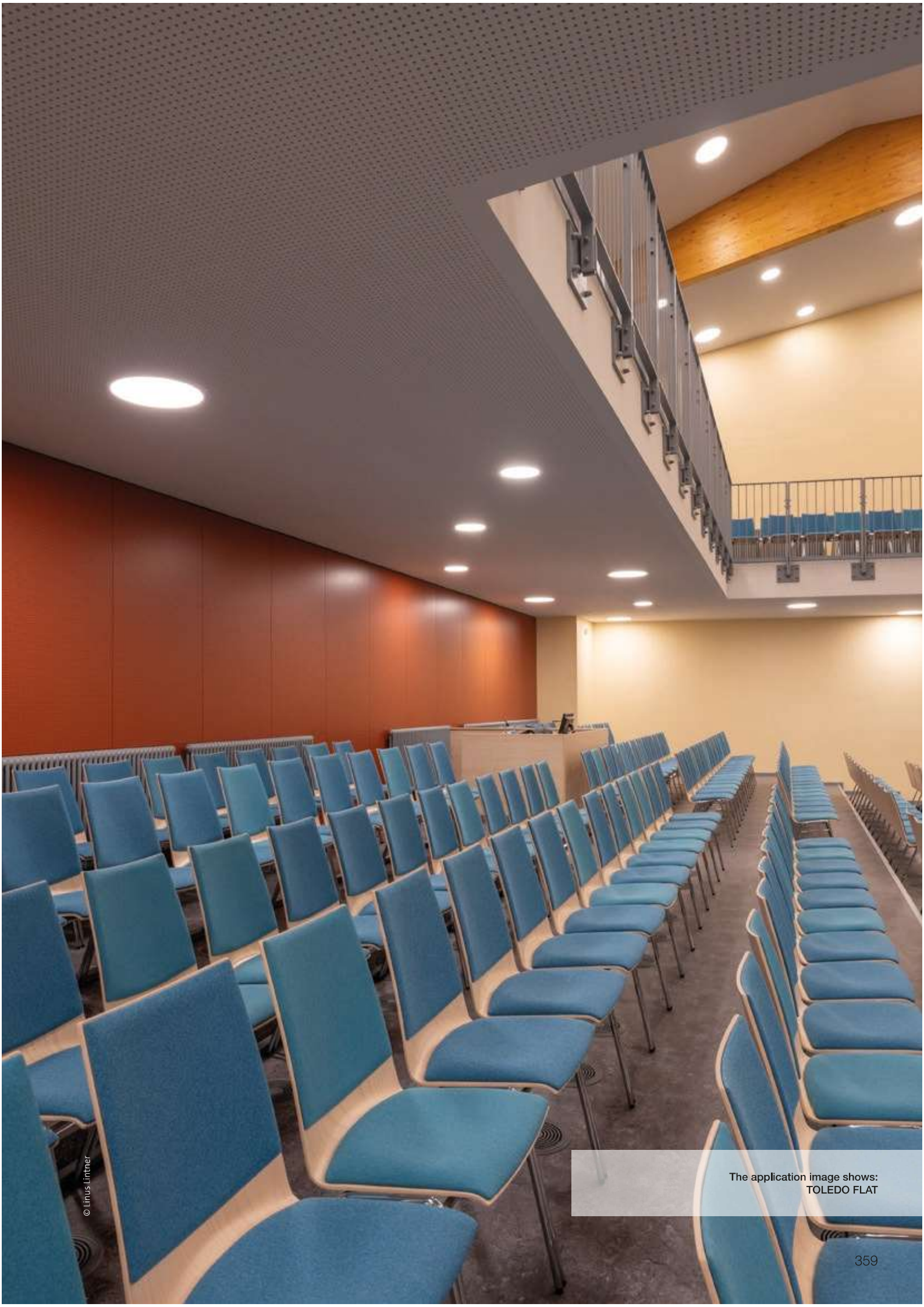
Indoor lighting | Surface mounted downlights

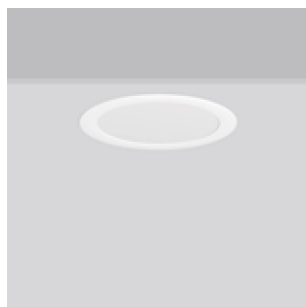
LIGHTING DESIGN

- **Homogenous:** Diffuser made of non-yellowing plastic (PMMA) opal or microprismatic.
- **Variable:** Tunable white dynamically adjustable from 2700 K to 6500 K.
- **Optimum:** LED rated life 50,000 h (L80/B50).
- **Dynamic:** Versions with connected HF motion detector can be configured through app via Bluetooth® or buttons.
- **Combinable:** Retrofittable decorative chintz lampshades as accessory.

INSTALLATION

- **Easy installation:** Simple mounting spring system for installation without tools.
- **Straightforward:** Easy installation with Plug & Play plug connection.
- **Expandable:** Suitable for through-wiring with separately available accessories.
- **Connected:** Versions with Casambi smart+free Bluetooth® control system for wireless network.
- **Smart Lighting:** HF motion detector with DALI and Bluetooth® interfaces for switching, dimming and networking from individual luminaires up to complex light installations.





Recessed downlights | TOLEDO FLAT round

Type of protection: IP 20, IP 54 on room side

Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK06

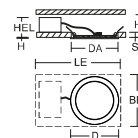
Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Including separate LED converter with connecting cable 250 mm.

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 5 W ≈

1 x 10 W TC-D (16 W Psys)

LED 7,7 W ≈

1 x 18 W TC-D (26 W Psys)

LED 17 / 19 W ≈

1 x 32 W TC-TEL (36 W Psys)

LED 22 / 24 W ≈

2 x 26 W TC-D (68 W Psys)

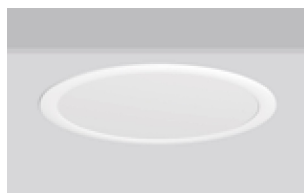
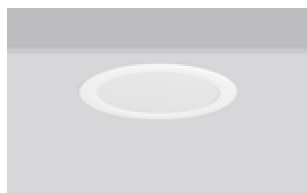
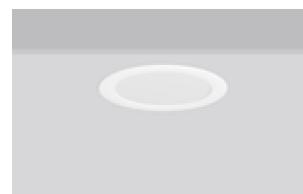
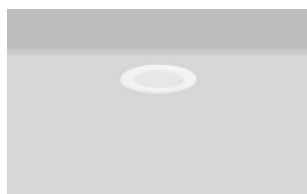
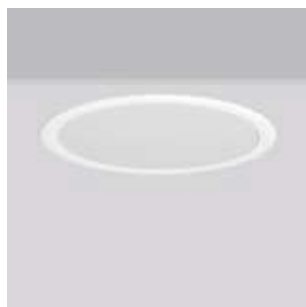
LED 30 W ≈

3 x 26 W TC-D (102 W Psys)



This luminaire is also available as self-contained and/or emergency luminaire for central battery systems according to EN 60598 2-22 – further information page 11.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control	Price Category 21
Recessed downlights								
Diffuser: plastic, opal								
Ceiling cut out DA 128 mm								
901451.002 .Q	D 148, H 2, HE 27-53	830	470	5	94	110	on/off	✓
901451.002.76	D 148, H 2, HE 31-53	830	470	5	94	110	DALI	
901451.002.1	D 148, H 2, HE 27-53	840	530	5	106	110	on/off	✓
901451.002.1.76	D 148, H 2, HE 31-53	840	530	5	106	110	DALI	
Ceiling cut out DA 170 mm								
901452.002 .Q	D 190, H 2, HE 27-53	830	780	7,7	102	110	on/off	✓
901452.002.76	D 190, H 2, HE 31-53	830	780	7,7	102	110	DALI	
901452.002.1 .Q	D 190, H 2, HE 27-53	840	840	7,7	110		on/off	✓
901452.002.1.76	D 190, H 2, HE 31-53	840	840	7,7	110		DALI	
Ceiling cut out DA 234 mm								
901453.002 .Q	D 255, H 3, HE 30-56	830	1650	17	98	110	on/off	✓
901453.002.76 .Q	D 255, H 3, HE 31-56	830	1650	17	98	110	DALI	
901453.002.1 .Q	D 255, H 3, HE 30-56	840	1800	17	106	110	on/off	✓
901453.002.1.76 .Q	D 255, H 3, HE 31-56	840	1800	17	106	110	DALI	
Tunable White - 2700 K to 6500 K								
901666.002.76	D 255, H 3, HE 30-56	827-865	1700	19	90	110	DALI	
901666.002.730	D 255, H 3, HE 55-75	827-865	1700	19	90	110	smart+free	
Ceiling cut out DA 288 mm								
901484.002 .Q	D 317, H 3, HE 31-54	830	2150	22	98	108	on/off	✓
901484.002.76	D 317, H 3, HE 31-54	830	2150	22	98	108	DALI	
901484.002.1 .Q	D 317, H 3, HE 31-54	840	2250	22	103	108	on/off	✓
901484.002.1.76	D 317, H 3, HE 31-54	840	2250	22	103	108	DALI	
Tunable White - 2700 K to 6500 K								
901667.002.76	D 317, H 3, HE 31-54	827-865	2450	24	105	108	DALI	
901667.002.730	D 317, H 3, HE 55-75	827-865	2350	24	98	108	smart+free	
Ceiling cut out DA 470 mm								
901585.002	D 495, H 6, HE 40-59	830	3550	30	119	113	on/off	
901585.002.76	D 495, H 6, HE 40-59	830	3550	30	119	113	DALI	
901585.002.1	D 495, H 6, HE 40-59	840	3600	30	120	113	on/off	
901585.002.1.76	D 495, H 6, HE 40-59	840	3600	30	120	113	DALI	
Tunable White - 2700 K to 6500 K								
901668.002.76	D 495, H 6, HE 35-55	827-865	3150	30	105	113	DALI	
901668.002.730	D 495, H 6, HE 55-75	827-865	3150	30	105	113	smart+free	
Diffuser: plastic, microprismatic								
Ceiling cut out DA 470 mm								
901586.002	D 495, H 6, HE 40-59	830	3450	30	115	88	on/off	
901586.002.76	D 495, H 6, HE 40-59	830	3450	30	115	88	DALI	
901586.002.1	D 495, H 6, HE 40-59	840	3550	30	119	88	on/off	
901586.002.1.76	D 495, H 6, HE 40-59	840	3550	30	119	88	DALI	
Tunable White - 2700 K to 6500 K								
901669.002.76	D 495, H 6, HE 35-55	827-865	2900	30	97	88	DALI	
901669.002.730	D 495, H 6, HE 55-75	827-865	2900	30	97	88	smart+free	



Accessories: Page 364

Recessed downlights | TOLEDO FLAT round - movement sensor DALI/BT

Type of protection: IP 20, **IP 54** on room side

Protection class: I

Ceiling thickness S: 1-20 mm

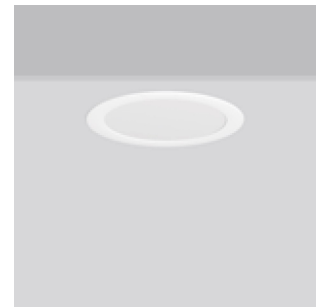
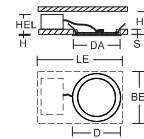
Impact protection: IK06

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Including separate LED converter with connecting cable 250 mm.

Available colour: 2 = white



Function parameters: HF motion detector Bluetooth® DALI

- HF detector 5.8 GHz
- Holding time: 5 sec. - 60 min., adjustable in 13 steps
- Detection angle 120°
- Range: up to 8 m; adjustable in 10% steps.
- Factory setting: holding time 30 seconds, range approx. 6 m, dim level 30%.
- Dim functions: Soft Start, Corridor, Permanent
- Additional functions: create profiles and groups, networking the sensors
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired
- Master-slave: up to three additional Toledo Flat DALI 17 W can be connected
- Brightness sensor without function.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Recessed downlights with connected movement sensor adjustable with app via Bluetooth®-DALI						
Ceiling cut out DA 234 mm						
901715.002.19	D 255, H 3, HE 55-76	830	1650	17	98	110 smart+free
901715.002.1.19	D 255, H 3, HE 55-76	840	1800	17	106	109 smart+free

Not suitable for metal ceilings.

Comparison LED vs. conventional lamps

LED 17 W ≈
1 x 32 W TC-TEL (36 W Psys)



MICAS Autolight App
download now!

Recessed downlights | TOLEDO FLAT round - movement sensor EASY

Type of protection: IP 20, **IP 54** on room side

Protection class: I

Ceiling thickness S: 1-20 mm

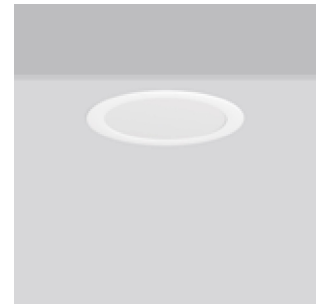
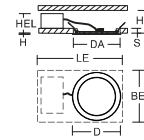
Impact protection: IK06

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Including separate LED converter with connecting cable 250 mm.

Available colour: 2 = white



Function parameters: HF motion detector EASY

- HF detector 5.8 GHz
- Holding time: 10 sec. - 20 min., adjustable in 7 steps.
- Detection angle 120°
- Range: up to 8 m; adjustable in 5 steps.
- Factory setting: holding time 15 minutes, range approx. 6 m.
- Adjustable in control gear box
- Master-slave: up to three additional Toledo Flat on/off 17 W can be connected
- Brightness sensor without function.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Recessed downlights with connected movement sensor EASY adjustable with buttons						
Ceiling cut out DA 234 mm						
901453.002.19	D 255, H 3, HE 55-76	830	1650	17	98	110 on/off
901453.002.1.19	D 255, H 3, HE 55-76	840	1800	17	106	109 on/off

Not suitable for metal ceilings.

Comparison LED vs. conventional lamps

LED 17 W ≈
1 x 32 W TC-TEL (36 W Psys)



Accessories: Page 364



Recessed downlights | TOLEDO FLAT square

Type of protection: IP 20, IP 54 on room side

Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK06

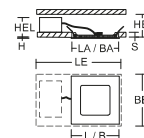
Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Including separate LED converter with connecting cable 250 mm.

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 5 W ≈

1 x 10 W TC-D (16 W Psys)

LED 8 W ≈

1 x 18 W TC-D (26 W Psys)

LED 17 / 19 W ≈

1 x 32 W TC-TEL (36 W Psys)

LED 21 / 24 W ≈

2 x 26 W TC-D (68 W Psys)



This luminaire is also available as self-contained and/or emergency luminaire for central battery systems according to EN 60598 2-22 – further information page 11.

Recessed downlights

Diffuser: plastic, opal

Ceiling cut out LA 96 x BA 96 mm

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control	
901485.002	L 110, B 110, H 3, HE 27-56	830	420	5	84	107	on/off	✓
901485.002.76	L 110, B 110, H 3, HE 31-56	830	420	5	84	107	DALI	
901485.002.1	L 110, B 110, H 3, HE 27-56	840	430	5	86	107	on/off	✓
901485.002.1.76	L 110, B 110, H 3, HE 31-56	840	430	5	86	107	DALI	

Ceiling cut out LA 156 x BA 156 mm

901486.002	L 172, B 172, H 3, HE 28-56	830	770	8	97	108	on/off	✓
901486.002.76	L 172, B 172, H 3, HE 31-56	830	770	8	97	108	DALI	
901486.002.1	L 172, B 172, H 3, HE 28-56	840	800	8	100	108	on/off	✓
901486.002.1.76	L 172, B 172, H 3, HE 31-56	840	800	8	100	108	DALI	

Ceiling cut out LA 208 x BA 208 mm

901487.002	L 225, B 225, H 3, HE 29-56	830	1650	17	98	108	on/off	✓
901487.002.76	L 225, B 225, H 3, HE 31-56	830	1650	17	98	108	DALI	
901487.002.1	L 225, B 225, H 3, HE 29-56	840	1800	17	106	108	on/off	✓
901487.002.1.76	L 225, B 225, H 3, HE 31-56	840	1800	17	106	108	DALI	

Tunable White - 2700 K to 6500 K

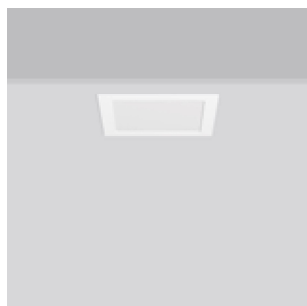
901670.002.76	L 225, B 225, H 3, HE 29-56	827-865	1600	19	87	108	DALI	
901670.002.730	L 225, B 225, H 3, HE 55-75	827-865	1600	19	87	108	smart+free	

Ceiling cut out LA 280 x BA 280 mm

901488.002	L 300, B 300, H 3, HE 31-56	830	2150	21	103	108	on/off	✓
901488.002.76	L 300, B 300, H 3, HE 31-56	830	2150	21	103	108	DALI	
901488.002.1.Q	L 300, B 300, H 3, HE 31-56	840	2250	21	108	108	on/off	✓
901488.002.1.76	L 300, B 300, H 3, HE 31-56	840	2250	21	108	108	DALI	

Tunable White - 2700 K to 6500 K

901671.002.76	L 300, B 300, H 3, HE 31-56	827-865	2400	24	100	108	DALI	
901671.002.730	L 300, B 300, H 3, HE 55-75	827-865	2400	24	100	108	smart+free	



Accessories:
Page 365

Recessed downlights | TOLEDO FLAT square - movement sensor DALI/BT

 Type of protection: IP 20, **IP 54** on room side

Protection class: I

Ceiling thickness S: 1-20 mm

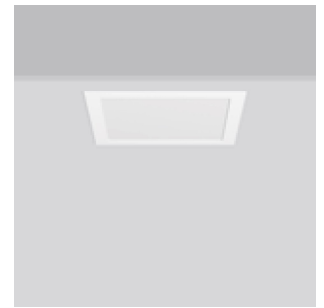
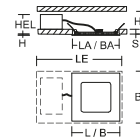
Impact protection: IK06

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Including separate LED converter with connecting cable 250 mm.

Available colour: 2 = white


Function parameters: HF motion detector Bluetooth®-DALI

- HF detector 5.8 GHz
- Holding time: 5 sec. - 60 min., adjustable in 13 steps
- Detection angle 120°
- Range: up to 8 m; adjustable in 10% steps.
- Factory setting: holding time 30 seconds, range approx. 6 m, dim level 30%.
- Dim functions: Soft Start, Corridor, Permanent
- Additional functions: create profiles and groups, networking the sensors
- Master-slave: up to three additional Toledo Flat DALI 17 W can be connected
- Brightness sensor without function.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Recessed downlights with connected movement sensor adjustable with app via Bluetooth®-DALI							Price Category 21
Ceiling cut out LA 208 x BA 208 mm							
901716.002.19	L 225, B 225, H 3, HE 55-76	830	1650	17	98	108	smart+free
901716.002.1.19	L 225, B 225, H 3, HE 55-76	840	1800	17	106	108	smart+free

Not suitable for metal ceilings.

Comparison LED vs. conventional lamps
LED 17 W ≈
 1 x 32 W TC-TEL (36 W Psys)

MICAS Autolight App
 download now!

Recessed downlights | TOLEDO FLAT square - movement sensor EASY

 Type of protection: IP 20, **IP 54** on room side

Protection class: I

Ceiling thickness S: 1-20 mm

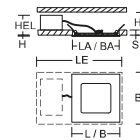
Impact protection: IK06

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Including separate LED converter with connecting cable 250 mm.

Available colour: 2 = white


Function parameters: HF motion detector EASY

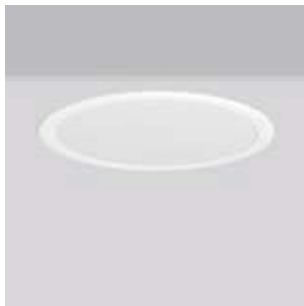
- HF detector 5.8 GHz
- Holding time: 10 sec. - 20 min., adjustable in 7 steps.
- Detection angle 120°
- Range: up to 8 m; adjustable in 5 steps.
- Factory setting: holding time 15 minutes, range approx. 6 m.
- Master-slave: up to three additional Toledo Flat on/off 17 W can be connected
- Brightness sensor without function.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Recessed downlights with connected movement sensor EASY adjustable with buttons							Price Category 21
Ceiling cut out LA 208 x BA 208 mm							
901487.002.19	L 225, B 225, H 3, HE 55-76	830	1650	17	98	108	on/off
901487.002.1.19	L 225, B 225, H 3, HE 55-76	840	1800	17	106	108	on/off

Not suitable for metal ceilings.

Comparison LED vs. conventional lamps
LED 17 W ≈
 1 x 32 W TC-TEL (36 W Psys)

 Accessories:
 Page 365



Accessories | TOLEDO FLAT round



Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box

Price Category 21

982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm ² or 3 x 2.5 mm ² possible.
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Insert frames for modular grid ceilings

Price Category 21

982182.002	L 595, B 595, H 36	Insert frames for modular grid ceilings 600, for Toledo Flat Round D 495
982183.002	L 622, B 622, H 36	Insert frames for modular grid ceilings 625, for Toledo Flat Round D 495



Accessories | Surface mounted housing

Ceiling frame and mounting plate galvanised metal. Cylinder housing sheet steel, powder coated. Downlight can be locked without tools.

Surface mounted housing

Price Category 21

982072.002*	D 150, H 55	Surface mounted housing for downlight D 148
982073.002	D 192, H 55	Surface mounted housing for downlight 190
982074.002**	D 257, H 60	Surface mounted housing for downlight D 255
982119.002	D 319, H 60	Surface mounted housing for downlight D 317
982181.002	D 500, H 57	Surface mounted housing for downlight D 495

* not suitable for DALI version | ** not suitable for version with motion detector



Compensating rings
available for various
ceiling cut outs!

Accessories | Anti-Glow-Module

Prevents the generally rarely occurring afterglow with DALI luminaires in the state switched off via DALI in connection with disproportionate grounding concepts. The Anti-Glow module is connected between the converter and the luminaire housing.

Anti-Glow Module

Price Category 21

983000.002	L 40, B 25, H 15	2 pole, cable length 250 mm.
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without diffuser



with diffuser

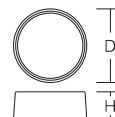
Accessories | Chintz decorative element TOLEDO FLAT round

Fabric shade with classic chintz fabric. Can be retrofitted without tools to the recessed downlight. Various fabric colors available.

Color code must be specified in the order.

Available colour (Y): Color code overview see page 317

Please be aware of possible increased freight charges for deliveries outside of Germany.



Chintz lampshades

Price Category 21

982319.Y	D 153, H 60	Chintz decorative cylinder for TOLEDO FLAT round D 148
982320.Y	D 195, H 60	Chintz decorative cylinder for TOLEDO FLAT round D 190
982321.Y	D 260, H 60	Chintz decorative cylinder for TOLEDO FLAT round D 255
982322.Y	D 322, H 60	Chintz decorative cylinder for TOLEDO FLAT round D 317
982323.Y	D 500, H 60	Chintz decorative cylinder for TOLEDO FLAT round D 495

Cannot be fitted with surface mount housing

Satin finish plastic diffuser (optional)

Price Category 21

Can be installed on the decorative element without any tools

982324.002	D 151, H 4	Accessories for chintz decorative cylinder D 153
982325.002	D 193, H 4	Accessories for chintz decorative cylinder D 195
982326.002	D 258, H 4	Accessories for chintz decorative cylinder D 260
982327.002	D 320, H 4	Accessories for chintz decorative cylinder D 322
982328.002	D 498, H 4	Accessories for chintz decorative cylinder D 500



Colour chart Chintz lampshades

Price Category 21

W06630	L 150, B 65, H 40	Chintz lampshades are available in more than 50 different colours.
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Accessories | TOLEDO FLAT square
Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box
Price Category 21

982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm ² or 3 x 2.5 mm ² possible.
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Accessories | Surface mounted housing

Surface mounted housing: sheet steel, powder coated. Downlight can be locked without tools.

Surface mounted housing
Price Category 21

982138.002*	L 110, B 110, H 55	Surface mounted housing for downlight 110 x 110
982139.002	L 172, B 172, H 55	Surface mounted housing for downlight 172 x 172
982140.002**	L 225, B 225, H 55	Surface mounted housing for downlight 225 x 225
982141.002	L 300, B 300, H 55	Surface mounted housing for downlight 300 x 300

* not suitable for DALI version | ** not suitable for version with motion detector

Accessories | Anti-Glow-Module

Prevents the generally rarely occurring afterglow with DALI luminaires in the state switched off via DALI in connection with disproportionate grounding concepts. The Anti-Glow module is connected between the converter and the luminaire housing.

Anti-Glow Module
Price Category 21

983000.002	L 40, B 25, H 15	2 pole, cable length 250 mm.
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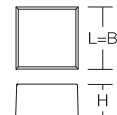
Accessories | Chintz decorative element TOLEDO FLAT square

Fabric shade with classic chintz fabric. Can be retrofitted without tools to the recessed downlight. Various fabric colors available.

Color code must be specified in the order.

Available colour (Y): Color code overview see page 317

Please be aware of possible increased freight charges for deliveries outside of Germany.


Chintz lampshades
Price Category 21

982501.Y	L 115, B 115, H 60	Chintz decorative element for TOLEDO FLAT square 110 x 110
982502.Y	L 177, B 177, H 60	Chintz decorative element for TOLEDO FLAT square 172 x 172
982503.Y	L 230, B 230, H 60	Chintz decorative element for TOLEDO FLAT square 225 x 225
982504.Y	L 305, B 305, H 60	Chintz decorative element for TOLEDO FLAT square 300 x 300

Cannot be fitted with surface mount housing

Satin finish plastic diffuser (optional)
Price Category 21

Can be installed on the decorative element without any tools

982505.002	L 113, B 113, H 4	Accessories for chintz decor cube 115 x 115
982506.002	L 175, B 175, H 4	Accessories for chintz decor cube 177 x 177
982507.002	L 228, B 228, H 4	Accessories for chintz decor cube 230 x 230
982508.002	L 303, B 303, H 4	Accessories for chintz decor cube 305 x 305

Colour chart Chintz lampshades
Price Category 21

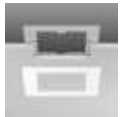
W06630	L 150, B 65, H 40	Chintz lampshades are available in more than 50 different colours.
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Other variants and the colour chart
with more than 50 colors
see chapter of fabric lampshade luminaires



Compensating rings
available for various
ceiling cut outs!



without diffuser



with diffuser



TOLEDO FLAT PRO

Everything at a glance



Diffuser made of resistant polycarbonate (PC) with smooth surface on room side for low dirt sensitivity to prevent the settling of germs and bacteria.

Easy cleaning with resistance to detergents/disinfectants.

Suitable for ceiling thicknesses of 1-20 mm.



Tunable White



HCL ready

Tunable white versions, dynamically adjustable from 2700 K to 6500 K with CRI >90.

Ideal for use as part of the Human Centric Lighting concept in connection with RZB light management systems.

IP54

High type of protection (room side).



The Cyanosis Observation Index (COI) describes the quality of the light spectrum of a luminaire for suitability for medical applications. Luminaires with a standardised COI of less than 3.3 are particularly suitable for reliable detection of cyanosis. Cyanosis is a bluish discolouration of the skin or the mucosa caused by a decrease in arterial oxygen saturation. This can be a symptom of dangerous disorders of the human organism. For an initial early visual diagnosis, the quality of light is crucial.

The Toledo Flat PRO with light colour 940 has a COI of 2.94 and is therefore ideal for such applications.



Very easy plug-in installation
(Quick connector).



Ideal for office areas ($UGR \leq 19$) and
environments with computer screens in
accordance with DIN EN 12464-1.

LED rated life 0 h ($L_{o,c}$) (DALI version),
CLO control for constant light output over
the entire service life.



DALI dimmable converter
as standard.

DALI

Specially adapted closed-cell
silicone foam gasket to prevent
the distribution of germs and
viruses as an accessory.



Versions with Casambi smart+free Bluetooth®
control for wireless network and operation
using Android / iOS devices, free app available
for download.



Particularly suitable for the requirements of
treatment rooms in healthcare facilities, in
accordance with EN 12464 ($UGR \leq 19$, $CRI > 90$).



Tunable White



HCL ready



UGR ≤ 19



CRI
>90



COI
compliant



DALI



Casambi
smart+
free



CLO
Constant
Light Output



Plug & Play



IP54

TOLEDO FLAT PRO

Recessed downlights

ARCHITECTURE

- **Versatile:** Ultra-flat round downlight suitable for recessed or surface installation.
- **Protected:** High protection type IP 54 on the room side.
- **Robust:** Diffuser made from resistant polycarbonate (PC) with smooth surface on room side.
- **Applicable:** Treatment rooms in health centres, locations with stringent hygienic requirements.
- **Smart Lighting:** Tunable White versions are predestined for use in the context of Human Centric Lighting (HCL) in combination with RZB light management systems.



Further luminaires of this series, see:
Indoor lighting | Surface mounted downlights

LIGHTING DESIGN

- **Anti-glare:** Satinised microprismatic diffuser prevents direct glare.
- **Advantageous:** Model with light colour 940 suitable for medical applications in accordance with the Cyanosis Observation Index (COI <3,3).
- **Complies with regulations:** Particularly suitable for the requirements of treatment rooms in healthcare facilities, in accordance with EN 12464 (UGR ≤19, CRI >90).
- **Reliable planning:** LED rated life 80000 h, CLO controlled for constant light output throughout the entire service life.
- **Dynamic:** Tunable white dynamically adjustable from 2700 K to 6500 K.

INSTALLATION

- **Easy installation:** Quick and easy to install.
- **Straightforward:** Easy installation with Plug & Play plug connection.
- **Standard:** Suitable for through-wiring.
- **Clean:** Easy cleaning if resistant to cleaning agents / disinfectants.
- **Connected:** Versions with Casambi smart+free Bluetooth® control system for wireless network.
- **Accessories:** Specially customized closed-cell silicone foam sealant to prevent the spread of germs and viruses. Surface-mounted housing and insert frames for modular grid ceilings 600 and 625.

Recessed downlights | TOLEDO FLAT PRO

Type of protection: IP 20, **IP 54** on room side

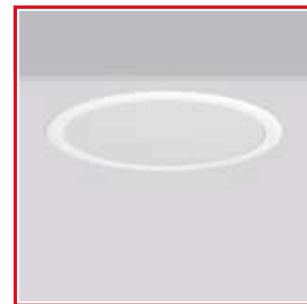
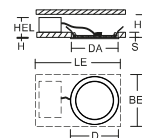
Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK03

Housing: die-cast aluminium. Diffuser made from resistant polycarbonate (PC), with smooth surface on room side. Ceiling installation with spring system. Mounting depth depends on ceiling strength. Including separate LED converter with connecting cable 250 mm.

Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control
Recessed downlights								Price Category 21
Diffuser made of smooth, satin finish microprismatic polycarbonate								
Ceiling cut out DA 470 mm								
901719.002.76	D 495, H 6, HE 35-55	930	2650	26	102	81	18,3	DALI
901719.002.1.76 *	D 495, H 6, HE 35-55	940	2800	26	108	81	18,5	DALI
Tunable White - 2700 K to 6500 K								
901719.002.2.76	D 495, H 6, HE 40-59	927-965	2700	30	90	81	18,2...18,5	DALI
901719.002.2.730	D 495, H 6, HE 55-75	927-965	2700	30	90	81	18,2...18,5	smart+free

* Qualified for medical applications according to Cyanosis Observation Index (COI <3.3).

Comparison LED vs. conventional lamps

LED 26 / 30 W ≈

1 x 57 W TC-TEL (59 W Psys)

2 x 26 W TC-D (68 W Psys)

Accessories | Surface mounted housing

Ceiling frame and mounting plate galvanised metal. Cylinder housing sheet steel, powder coated. Downlight can be locked without tools.

Surface mounted housing			Price Category 21
982181.002	D 500, H 57	Surface mounted housing for downlight D 495	



Insert frames for modular grid ceilings

Price Category 21

982182.002	L 595, B 595, H 36	Insert frames for modular grid ceilings 600, for downlight D 495
982183.002	L 622, B 622, H 36	Insert frames for modular grid ceilings 625, for downlight D 495



Silicone foam seal

Price Category 21

982799.002	D 495, H 3	Specially customized closed-cell silicone foam sealant to prevent the spread of germs and viruses.
------------	------------	--



Compensating rings
available for various
ceiling cut outs!



TOLEDO FLAT+

Everything at a glance



MultiColour version:
Colour temperature
individually adjustable
either 3000 K or
4000 K.

Minimalist design.
Shallow recessed depth.

Suitable for ceiling
thicknesses of 1-20 mm.

LED backlight technology for
homogeneous illumination of the
entire light-emitting surface.

IP 54

High type
of protection
(room side).

Colour tolerance within
3-steps MacAdam
(3 SDCM).



HF motion detector EASY for direct
setting of the sensor via buttons,
also with master-slave wiring option.



Versions with Casambi smart+free
Bluetooth® control for wireless
network and operation using
Android / iOS devices, free app
available for download.



Very easy plug-in installation
(Quick connector).

DALI

DALI variants suitable for
through wiring as standard.



MultiLumen version:
4-step adjustable
luminous flux.



Tunable white versions, dynamically
adjustable from 2700 K to 6500 K.

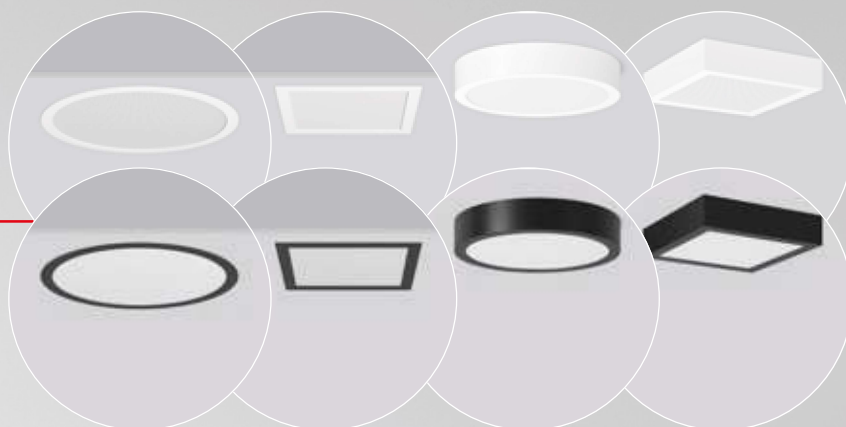
Ideal for use as part of the
Human Centric Lighting concept in connection
with RZB light management systems.

Diffuser made of
non-yellowing plastic PMMA
opal or microprismatic.



Ideal for office areas ($UGR \leq 19$) and
environments with computer screens in
accordance with DIN EN 12464-1.

Flexible recessed/surface-mounted
downlights, round and square versions.
Available in the colours white and
anthracite.





Tunable White



HCL ready



UGR ≤ 19



MultiColour



MultiLumen

DALI



Casambi
smart+
free



Master-Slave



Plug & Play

IP 54

TOLEDO FLAT+

Recessed downlights

ARCHITECTURE

- **Versatile:** Flexible recessed multifunction downlights, round and square versions.
- **Design-oriented:** Minimalist design. Shallow recessed depth.
- **Protected:** High protection type IP 54 on the room side.
- **Individual:** Tunable White versions are predestined for use in the context of Human Centric Lighting (HCL) in combination with RZB light management systems.
- **Applicable:** Corridors, side rooms, hotels, restaurants, conference rooms, private rooms.

LIGHTING DESIGN

- **Anti-glare:** Models suitable for office areas and computer workstations.
- **Homogenous:** Diffuser made of non-yellowing plastic (PMMA) opal or microprismatic.
- **Standard:** MultiLumen - 4-step adjustable luminous flux.
- **Flexible:** MultiColour - Colour temperature individually adjustable either 3000 K or 4000 K.
- **Dynamic:** Tunable white dynamically adjustable from 2700 K to 6500 K.
- **Efficient:** Versions with movement sensor.

INSTALLATION

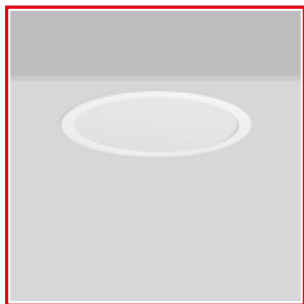
- **Easy installation:** Simple mounting spring system for installation without tools.
- **Straightforward:** Easy installation with Plug & Play plug connection.
- **Advantageous:** DALI variants suitable for through wiring as standard.
- **Connected:** Versions with Casambi smart+free Bluetooth® control system for wireless network.
- **Expandable:** Surface mounted housing as accessory for all sizes.



Further luminaires of this series, see:
Indoor lighting | Surface mounted downlights



ENGEL & VÖLKERS
COMMERCIAL



Comparison LED vs. conventional lamps

LED 4,5 W ≈

1 x 13 W TC-D (19 W Psys)

LED 9,5 / 10 W ≈

1 x 26 W TC-D (34 W Psys)

LED 12 W ≈

2 x 18 W TC-D (52 W Psys)

LED 17 / 18 W ≈

2 x 26 W TC-D (68 W Psys)

LED 22 / 26 W ≈

3 x 26 W TC-D (102 W Psys)

LED 33 W ≈

4 x 26 W TC-D (136 W Psys)

Recessed downlights | TOLEDO FLAT+ round

Type of protection: IP 20, IP 54 on room side

Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK03

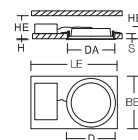
Housing: sheet steel, powder-coated. Luminaire frame: aluminium, powder-coated. Diffuser made of non-yellowing plastic (PMMA) opal or microprismatic, LED backlight technology for homogeneous illumination of the entire light-emitting surface. Ceiling installation with spring system. Including separate LED converter with connecting cable 250 mm, DALI variants suitable for through wiring as standard.

Available colours (X): 2 = white, 31 = anthracite

MultiColour: Colour temperature adjustable via switching element. Factory setting is 4000 K.

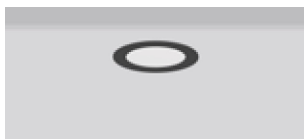
MultiLumen: Luminous flux variable in 4 steps. Factory setting is step 2.

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control
Recessed downlights								Price Category 21
Diffuser: plastic, opal								
Ceiling cut out DA 152 mm								
901807.00X	D 165, H 2	830, 840	570...1150	4,5...9,5	127	112	26,2...28,7	on/off
901807.00X.76	D 165, H 2	830, 840	570...1150	4,5...9,5	127	112	26,2...28,7	DALI
Tunable White - 2700 K to 6500 K								
901807.00X.2.76	D 165, H 2	827-865	860	10	89	113	27,9...28	DALI
901807.00X.2.730	D 165, H 2	827-865	860	10	89	113	27,9...28	smart+free
Ceiling cut out DA 257 mm								
901808.00X	D 270, H 2	830, 840	1650...3150	12...22	147	112	25,6...27,8	on/off
901808.00X.76	D 270, H 2	830, 840	1650...3150	12...22	147	112	25,6...27,8	DALI
Tunable White - 2700 K to 6500 K								
901808.00X.2.76	D 270, H 2	827-865	2200	18	128	113	26,7...26,8	DALI
901808.00X.2.730	D 270, H 2	827-865	2200	18	128	113	26,7...26,8	smart+free
Ceiling cut out DA 377 mm								
901810.00X	D 390, H 2	830, 840	1550...2950	12...22	137	113	22,4...24,7	on/off
901810.00X.76	D 390, H 2	830, 840	1550...2950	12...22	137	113	22,4...24,7	DALI
Tunable White - 2700 K to 6500 K								
901810.00X.2.76	D 390, H 2	827-865	1950	17	121	113	23,3...23,5	DALI
901810.00X.2.730	D 390, H 2	827-865	1950	17	121	113	23,3...23,5	smart+free
Ceiling cut out DA 457 mm								
901812.00X	D 470, H 2	830, 840	3050...4450	22...33	139	113	23,3...24,6	on/off
901812.00X.76	D 470, H 2	830, 840	3050...4450	22...33	139	113	23,3...24,6	DALI
Tunable White - 2700 K to 6500 K								
901812.00X.2.76	D 470, H 2	827-865	3150	26	127	113	23,5...23,7	DALI
901812.00X.2.730	D 470, H 2	827-865	3150	26	127	113	23,5...23,7	smart+free
Diffuser plastic microprismatic								
Ceiling cut out DA 257 mm								
901809.00X	D 270, H 2	830, 840	1450...2800	12...22	130	89	21,7...24	on/off
901809.00X.76	D 270, H 2	830, 840	1450...2800	12...22	130	89	21,7...24	DALI
Tunable White - 2700 K to 6500 K								
901809.00X.2.76	D 270, H 2	827-865	2000	18	117	90	22,8...23	DALI
901809.00X.2.730	D 270, H 2	827-865	2000	18	117	90	22,8...23	smart+free
Ceiling cut out DA 377 mm								
901811.00X	D 390, H 2	830, 840	1350...2550	12...22	120	78	17,7...19,9	on/off
901811.00X.76	D 390, H 2	830, 840	1350...2550	12...22	120	78	17,7...19,9	DALI
Tunable White - 2700 K to 6500 K								
901811.00X.2.76	D 390, H 2	827-865	1750	17	106	78	18,6...18,7	DALI
901811.00X.2.730	D 390, H 2	827-865	1750	17	106	78	18,6...18,7	smart+free
Ceiling cut out DA 457 mm								
901813.00X	D 470, H 2	830, 840	2600...3800	22...33	118	78	18,5...19,8	on/off
901813.00X.76	D 470, H 2	830, 840	2600...3800	22...33	118	78	18,5...19,8	DALI
Tunable White - 2700 K to 6500 K								
901813.00X.2.76	D 470, H 2	827-865	2750	26	112	78	18,6...18,8	DALI
901813.00X.2.730	D 470, H 2	827-865	2750	26	112	78	18,6...18,8	smart+free

MultiLumen/MultiColour: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.



Recessed downlights | TOLEDO FLAT+ round - movement sensor EASY

Type of protection: IP 20, **IP 54** on room side

Protection class: I, II

Ceiling thickness S: 1-20 mm

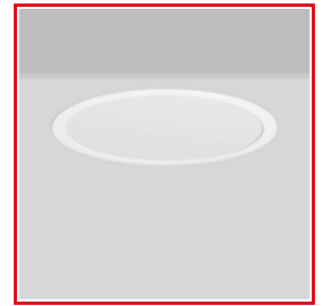
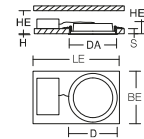
Impact protection: IK03

Housing: sheet steel, powder-coated. Luminaire frame: aluminium, powder-coated. Diffuser made of non-yellowing plastic (PMMA) opal or microprismatic. LED backlight technology for homogeneous illumination of the entire light-emitting surface. Ceiling installation with spring system. Including separate LED converter with connecting cable 250 mm. DALI variants suitable for through wiring as standard.

Available colours (X): 2 = white, 31 = anthracite

MultiColour: Colour temperature adjustable via switching element. Factory setting is 4000 K.

MultiLumen: Luminous flux variable in 4 steps. Factory setting is step 2.



Function parameters: HF motion detector EASY

- HF detector 5.8 GHz.
- Holding time: 5 sec. - 15 min., adjustable in 4 steps.
- Detection angle 30°-150°.
- Range: up to 10 m; adjustable in 4 steps.
- Adjustable in control gear box.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control
Recessed downlights with connected movement sensor								
Diffuser: plastic, opal								
Ceiling cut out DA 152 mm								
901807.00X.19	D 165, H 2	830, 840	570...1150	4,5...9,5	127	112	26,2...28,7	on/off
Ceiling cut out DA 257 mm								
901808.00X.19	D 270, H 2	830, 840	1650...3150	12...22	147	112	25,6...27,8	on/off
Ceiling cut out DA 377 mm								
901810.00X.19	D 390, H 2	830, 840	1550...2950	12...22	137	113	22,4...24,7	on/off
Ceiling cut out DA 457 mm								
901812.00X.19	D 470, H 2	830, 840	3050...4450	22...33	139	113	23,3...24,6	on/off
Diffuser plastic microprismatic								
Ceiling cut out DA 257 mm								
901809.00X.19	D 270, H 2	830, 840	1450...2800	12...22	130	89	21,7...24	on/off
Ceiling cut out DA 377 mm								
901811.00X.19	D 390, H 2	830, 840	1350...2550	12...22	120	78	17,7...19,9	on/off
Ceiling cut out DA 457 mm								
901813.00X.19	D 470, H 2	830, 840	2600...3800	22...33	118	78	18,5...19,8	on/off

MultiLumen/MultiColour: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Not suitable for metal ceilings.

Comparison LED vs. conventional lamps

LED 4,5 W ≈

1 x 13 W TC-D (19 W Psys)

LED 9,5 W ≈

1 x 26 W TC-D (34 W Psys)

LED 12 W ≈

2 x 18 W TC-D (52 W Psys)

LED 22 W ≈

2 x 26 W TC-D (68 W Psys)

LED 33 W ≈

3 x 26 W TC-D (102 W Psys)

Accessories | TOLEDO FLAT+ round

Accessories | Surface mounted housing TOLEDO FLAT+

Surface mounted housing: sheet steel, powder coated. Downlight can be locked without tools. Not suitable for version with motion detector.

Surface mounted housing			Price Category 21
982917.00X *	D 165, H 68	Surface mounted housing TOLEDO FLAT+ round D 165	
982918.00X	D 270, H 68	Surface mounted housing TOLEDO FLAT+ round D 270	
982919.00X	D 390, H 68	Surface mounted housing TOLEDO FLAT+ round D 390	
982920.00X	D 470, H 68	Surface mounted housing TOLEDO FLAT+ round D 470	

* not suitable for Tunable White versions



Insert frames for modular grid ceilings

Insert frames for modular grid ceilings			Price Category 21
982924.00X	L 595, B 595, H 36	Insert frames for modular grid ceilings 600, for TOLEDO FLAT+ round D 470	
982925.00X	L 622, B 622, H 36	Insert frames for modular grid ceilings 625, for TOLEDO FLAT+ round D 470	



Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

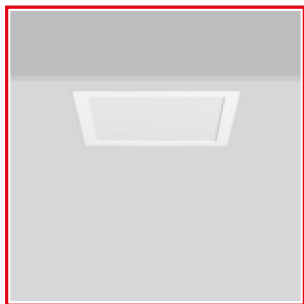
Through-wiring box			Price Category 21
982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm² or 3 x 2.5 mm² possible.	

Only required for on/off



Compensating rings available for various ceiling cut outs!





Comparison LED vs. conventional lamps

LED 4,5 W ≈

1 x 13 W TC-D (19 W Psys)

LED 8 / 9,5 / 10 W ≈

1 x 26 W TC-D (34 W Psys)

LED 12 / 15 W ≈

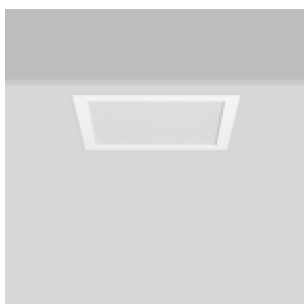
2 x 18 W TC-D (52 W Psys)

LED 19 W ≈

2 x 26 W TC-D (68 W Psys)

LED 23 W ≈

3 x 26 W TC-D (102 W Psys)



Recessed downlights | TOLEDO FLAT+ square

Type of protection: IP 20, IP 54 on room side

Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK03

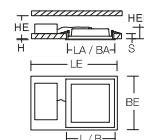
Housing: sheet steel, powder-coated. Luminaire frame: aluminium, powder-coated. Diffuser made of non-yellowing plastic (PMMA) opal or microprismatic, LED backlight technology for homogeneous illumination of the entire light-emitting surface. Ceiling installation with spring system. Including separate LED converter with connecting cable 250 mm, DALI variants suitable for through wiring as standard.

Available colours (X): 2 = white, 31 = anthracite

MultiColour: Colour temperature adjustable via switching element. Factory setting is 4000 K.

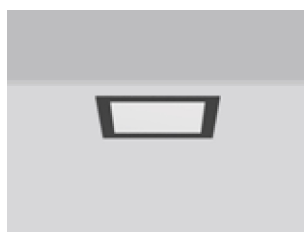
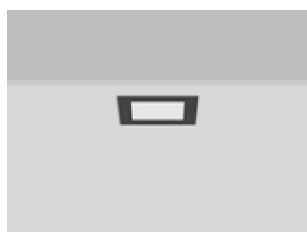
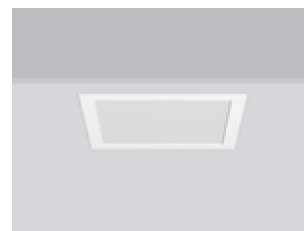
MultiLumen: Luminous flux variable in 4 steps. Factory setting is step 2.

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control
Recessed downlights								Price Category 21
Diffuser: plastic, opal								
Ceiling cut out LA 137 x BA 137 mm								
901814.00X	L 150, B 150, H 2	830, 840	570...1150	4,5...9,5	127	111	26,3...28,8	on/off
901814.00X.76	L 150, B 150, H 2	830, 840	570...1150	4,5...9,5	127	111	26,3...28,8	DALI
Tunable White - 2700 K to 6500 K								
901814.00X.2.76	L 150, B 150, H 2	827-865	920	10	96	113	28,2...28,3	DALI
901814.00X.2.730	L 150, B 150, H 2	827-865	920	10	96	113	28,2...28,3	smart+free
Ceiling cut out LA 217 x BA 217 mm								
901815.00X	L 230, B 230, H 2	830, 840	1050...2100	8...15	146	112	24,5...27	on/off
901815.00X.76	L 230, B 230, H 2	830, 840	1050...2100	8...15	146	112	24,5...27	DALI
Tunable White - 2700 K to 6500 K								
901815.00X.2.76	L 230, B 230, H 2	827-865	1750	15	120	113	26,4...26,5	DALI
901815.00X.2.730	L 230, B 230, H 2	827-865	1750	15	120	113	26,4...26,5	smart+free
Ceiling cut out LA 297 x BA 297 mm								
901817.00X	L 310, B 310, H 2	830, 840	1650...3050	12...23	138	112	23,6...25,8	on/off
901817.00X.76	L 310, B 310, H 2	830, 840	1650...3050	12...23	138	112	23,6...25,8	DALI
Tunable White - 2700 K to 6500 K								
901817.00X.2.76	L 310, B 310, H 2	827-865	2250	19	124	113	24,8...24,9	DALI
901817.00X.2.730	L 310, B 310, H 2	827-865	2250	19	124	113	24,8...24,9	smart+free
Diffuser plastic microprismatic								
Ceiling cut out LA 217 x BA 217 mm								
901816.00X	L 230, B 230, H 2	830, 840	1000...1850	8...15	127	91	20,9...23,1	on/off
901816.00X.76	L 230, B 230, H 2	830, 840	1000...1850	8...15	127	91	20,9...23,1	DALI
Tunable White - 2700 K to 6500 K								
901816.00X.2.76	L 230, B 230, H 2	827-865	1550	15	107	91/91	22,5...22,6	DALI
901816.00X.2.730	L 230, B 230, H 2	827-865	1550	15	107	91/91	22,5...22,6	smart+free
Ceiling cut out LA 297 x BA 297 mm								
901818.00X	L 310, B 310, H 2	830, 840	1500...2800	12...23	125	91	19,8...22	on/off
901818.00X.76	L 310, B 310, H 2	830, 840	1500...2800	12...23	125	91	19,8...22	DALI
Tunable White - 2700 K to 6500 K								
901818.00X.2.76	L 310, B 310, H 2	827-865	2000	19	108	91/91	20,8...20,9	DALI
901818.00X.2.730	L 310, B 310, H 2	827-865	2000	19	108	91/91	20,8...20,9	smart+free

MultiLumen/MultiColour: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.



Recessed downlights | TOLEDO FLAT+ square - movement sensor EASY

Type of protection: IP 20, IP 54 on room side

Protection class: I

Ceiling thickness S: 1-20 mm

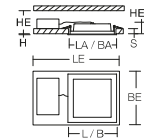
Impact protection: IK03

Housing: sheet steel, powder-coated. Luminaire frame: aluminium, powder-coated. Diffuser made of non-yellowing plastic (PMMA) opal or microprismatic. LED backlight technology for homogeneous illumination of the entire light-emitting surface. Ceiling installation with spring system. Including separate LED converter with connecting cable 250 mm. DALI variants suitable for through wiring as standard.

Available colours (X): 2 = white, 31 = anthracite

MultiColour: Colour temperature adjustable via switching element. Factory setting is 4000 K.

MultiLumen: Luminous flux variable in 4 steps. Factory setting is step 2.



Function parameters: HF motion detector EASY

- HF detector 5.8 GHz.
- Holding time: 5 sec. - 15 min., adjustable in 4 steps.
- Detection angle 30°-150°.
- Range: up to 10 m; adjustable in 4 steps.
- Adjustable in control gear box.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control
Recessed downlights with connected movement sensor								
Diffuser: plastic, opal								
Ceiling cut out LA 137 x BA 137 mm								
901814.00X.19	L 150, B 150, H 2	830, 840	570...1150	4,5...9,5	127	111	26,3...28,8	on/off
Ceiling cut out LA 217 x BA 217 mm								
901815.00X.19	L 230, B 230, H 2	830, 840	1050...2100	8...15	146	112	24,5...27	on/off
Ceiling cut out LA 297 x BA 297 mm								
901817.00X.19	L 310, B 310, H 2	830, 840	1650...3050	12...23	138	112	23,6...25,8	on/off
Diffuser plastic microprismatic								
Ceiling cut out LA 217 x BA 217 mm								
901816.00X.19	L 230, B 230, H 2	830, 840	1000...1850	8...15	127	91	20,9...23,1	on/off
Ceiling cut out LA 297 x BA 297 mm								
901818.00X.19	L 310, B 310, H 2	830, 840	1500...2800	12...23	125	91	19,8...22	on/off

MultiLumen/MultiColour: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Not suitable for metal ceilings.

Comparison LED vs. conventional lamps

LED 4,5 W ≈

1 x 13 W TC-D (19 W Psys)

LED 8 / 9,5 W ≈

1 x 26 W TC-D (34 W Psys)

LED 12 W ≈

2 x 18 W TC-D (52 W Psys)

LED 15 W ≈

2 x 26 W TC-D (68 W Psys)

LED 23 W ≈

3 x 26 W TC-D (102 W Psys)

Accessories | TOLEDO FLAT+ square

Accessories | Surface mounted housing TOLEDO FLAT+

Surface mounted housing: sheet steel, powder coated. Downlight can be locked without tools. Not suitable for version with motion detector.

Surface mounted housing	Price Category 21
982921.00X *	L 150, B 150, H 68
982922.00X	L 230, B 230, H 68
982923.00X	L 310, B 310, H 68

* not suitable for Tunable White versions



Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box	Price Category 21
982703.002	L 98, B 55, H 28

Only required for on/off



Compensating rings available for various ceiling cut outs!





TRIXY

Surface mounted downlights, Recessed downlights

ARCHITECTURE

- Flat downlight for recessed or surface installation in 2 sizes and in 2 shapes.
- 3-fold multi-function: MultiColour, MultiLumen, MultiCutOut.
- The MultiCutOut function makes it particularly suitable for renovations with existing ceiling cut-outs.
- Very low installation height.
- Applications: Renovations, corridors, side rooms, hotels, restaurants, conference rooms, private rooms.

LIGHTING DESIGN

- RZB SIDELITE® technology: Lateral light injection for extremely homogeneous light distribution.
- Suitable for ceiling and wall mounting.
- Luminous efficacy up to 125 lm/W.
- Colour rendering index Ra > 80.
- Colour tolerance within 4-steps MacAdam (4 SDCM).
- LED rated life 40000 h (L70/B50).

INSTALLATION

- **MultiColour:** with rear switching element, variable colour temperature 3000 K or 4000 K.
- **MultiLumen:** Luminous flux adjustable in 3 steps.
- **MultiCutOut:** With adjustable spring clamps, different round and square ceiling cut-outs can be individually adhered to.
- With integrated converter.
- Suitable for through-wiring.

For more information, see the chapter surface mounted downlights on page 404.

Surface mounted downlights, Recessed downlights | TRIXY

Type of protection: IP 20

Protection class: II

Ceiling thickness S: 5-25 mm

Impact protection: IK03

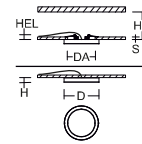
Housing made of UV-resistant polycarbonate. Perfect heat management with an aluminium heat sink, Diffuser: plastic (PMMA), transparent, with opal reflector foil. Lateral light emission (RZB SIDELITE® technology) for homogeneous light distribution. Suitable for recessed mounting in ceilings and surface mounting on ceilings and walls. Driver integrated. Suitable for through-wiring.


Available colour: 2 = white

MultiColour: Colour temperature adjustable via switching element. Factory setting is 4000 K.

MultiLumen: Luminous flux adjustable in 3 steps. Factory setting is the highest luminous flux.

MultiCutOut: With adjustable spring clamps, different ceiling cut-outs can be individually adhered to.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	UGR	Lighting control
Surface and recessed mounted downlights								
Ceiling cut out DA adjustable from 65 mm to 205 mm								
minimum mechanical height installed HEL 25 mm								
901717.002 .Q	D 235, H 22, HE 82	830, 840	990...1650	9...15	122	113	25,2...26,9	on/off
Ceiling cut out DA adjustable from 120 mm to 260 mm								
minimum mechanical height installed HEL 25 mm								
901718.002	D 300, H 25, HE 82	830, 840	1600...2600	14...22	125	113	24,8...26,5	on/off
MultiLumen/MultiColour: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com .								

Comparison LED vs. conventional lamps

LED 9 W ≈

2 x 13 W TC-D (38 W Psys)

LED 14 / 15 W ≈

2 x 18 W TC-D (52 W Psys)

LED 22 W ≈

2 x 26 W TC-D (68 W Psys)

Surface mounted downlights, Recessed downlights | TRIXY

Type of protection: IP 20

Protection class: II

Ceiling thickness S: 5-25 mm

Impact protection: IK02

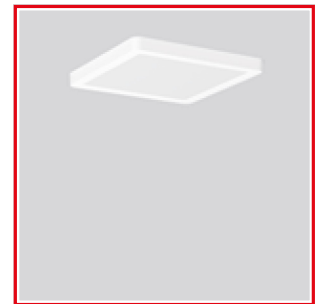
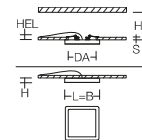
Housing made of UV-resistant polycarbonate. Perfect heat management with an aluminium heat sink, Diffuser: plastic (PMMA), transparent, with opal reflector foil. Lateral light emission (RZB SIDELITE® technology) for homogeneous light distribution. Suitable for recessed mounting in ceilings and surface mounting on ceilings and walls. Driver integrated. Suitable for through-wiring.


Available colour: 2 = white

MultiColour: Colour temperature adjustable via switching element. Factory setting is 4000 K.

MultiLumen: Luminous flux adjustable in 3 steps. Factory setting is the highest luminous flux.

MultiCutOut: With adjustable spring clamps, different ceiling cut-outs can be individually adhered to.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	UGR	Lighting control
Surface and recessed mounted downlights								
Ceiling cut out DA adjustable from 65 mm to 205 mm								
minimum mechanical height installed HEL 25 mm								
901722.002	L 235, B 235, H 22, HE 82	830, 840	990...1700	9...15	117	114	24,3...26,2	on/off
Ceiling cut out DA adjustable from 120 mm to 260 mm								
minimum mechanical height installed HEL 25 mm								
901723.002	L 300, B 300, H 25, HE 82	830, 840	1550...2550	14...22	118	114	23,9...25,6	on/off
MultiLumen/MultiColour: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com .								

Comparison LED vs. conventional lamps

LED 9 W ≈

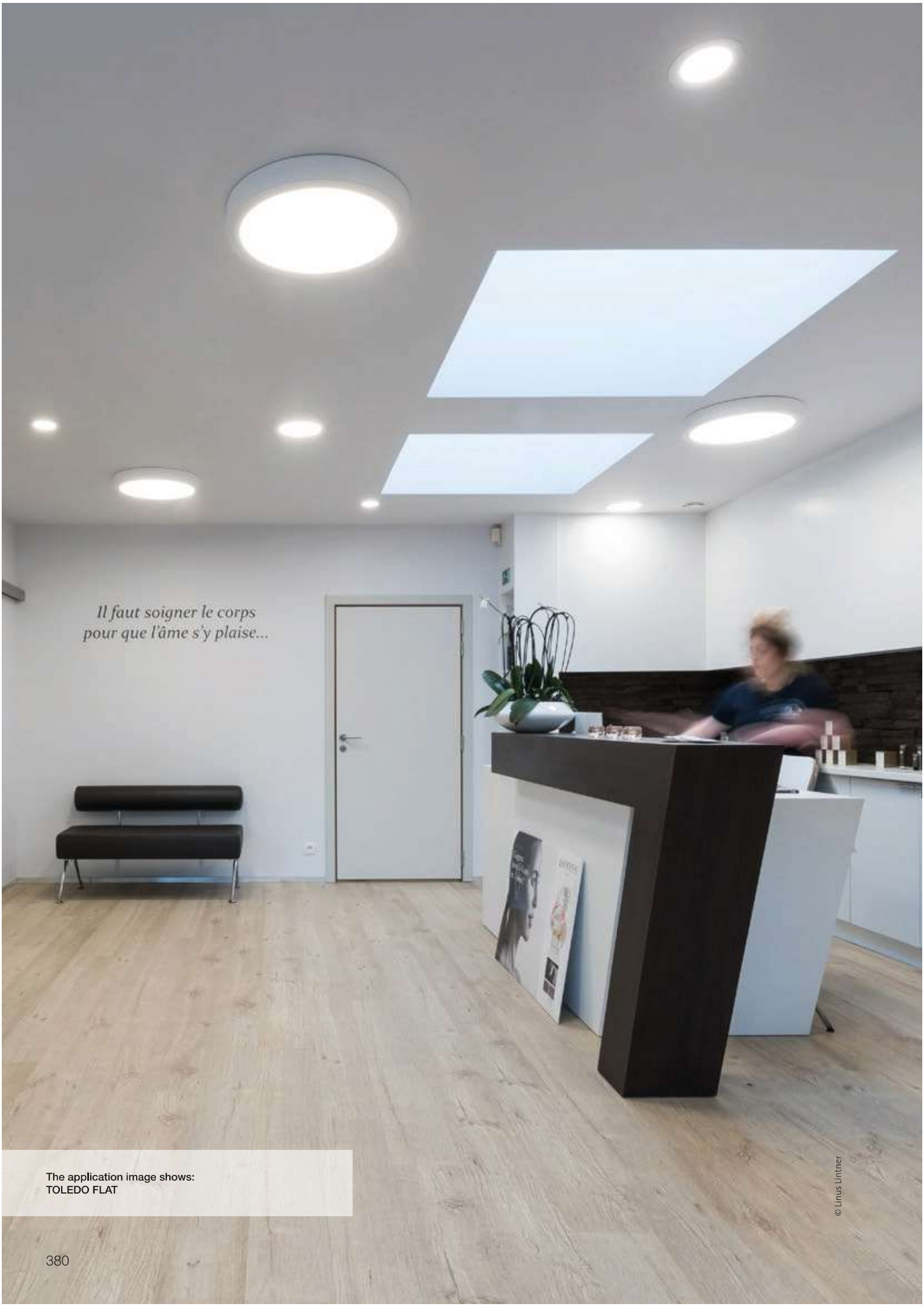
2 x 13 W TC-D (38 W Psys)

LED 14 / 15 W ≈

2 x 18 W TC-D (52 W Psys)
















LED 22 W ≈

2 x 26 W TC-D (68 W Psys)



*Il faut soigner le corps
pour que l'âme s'y plaise...*

The application image shows:
TOLEDO FLAT

		ANDHO 382-383
		HELEDON 384-393
		TOLEDO FLAT 394-397
		TOLEDO FLAT PRO 398-399
		TOLEDO FLAT+ 400-403
		
		TRIXY 404-407
		HEMIS 408-409



DALI



IP65

IP66

ANDHO®

Surface mounted downlights

ARCHITECTURE

- **Versatile:** High-quality surface-mounted downlight for indoor and outdoor use.
- **Long service life:** Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.

LIGHTING DESIGN

- **Advantageous:** 2 performance levels are available.
- **Efficient:** Reflector made of super-reflective **MIRO-SILVER®** for outstanding efficiency.
- **Optimum:** LED rated life 50000 h (L80/B10).

INSTALLATION

- **Easy installation:** Easy installation with a separate ceiling frame and plug connection.
- **Standard:** Membrane valve to prevent condensation.
- **Straightforward:** Suitable for through-wiring.



Further luminaires of this series, see:

Outdoor lighting | Pole luminaires
Outdoor lighting | Projectors and floodlights

Surface mounted downlights | ANDHO

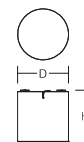
Type of protection: **IP 66** (ANDHO mini), **IP 65** (ANDHO midi)

Protection class: I

Impact protection: IK06

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Cover clear single-pane toughened glass. Rotation-symmetric reflector made of reflex-boosted MIRO-SILVER®. With membrane valve as a standard to avoid condensed water. Connected via plug-in connector. 5 pole double terminal for through-wiring.

Available colours (X): 2 = white, 31 = anthracite, 4 = silver



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control
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Surface mounted downlights - ANDHO mini

Price Category 21

Diameter D 114 mm

931251.00X.2	D 114, H 147	827	1400	13	108	40	16,3	on/off
931251.00X	D 114, H 147	830	1550	13	119	40	16,6	on/off
931251.00X.1	D 114, H 147	840	1700	13	131	40	17	on/off
931251.00X.2.76	D 114, H 147	827	2800	27	104	40	18,7	DALI
931251.00X.76	D 114, H 147	830	3100	27	115	40	19	DALI
931251.00X.1.76	D 114, H 147	840	3350	27	124	40	19,3	DALI

Surface mounted downlights - ANDHO midi

Price Category 21

Diameter D 154 mm

931196.00X.2	D 154, H 157	827	1800	15	120	61	17,9	on/off
931196.00X.2.76	D 154, H 157	827	1800	15	120	61	17,9	DALI
931196.00X	D 154, H 157	830	2000	15	133	63	18,7	on/off
931196.00X.76	D 154, H 157	830	2000	15	133	63	18,7	DALI
931196.00X.1	D 154, H 157	840	2100	15	140	63	18,8	on/off
931196.00X.1.76	D 154, H 157	840	2100	15	140	63	18,8	DALI
931197.00X.2	D 154, H 157	827	3650	31	118	61	20,3	on/off
931197.00X.2.76	D 154, H 157	827	3650	31	118	61	20,3	DALI
931197.00X	D 154, H 157	830	4000	31	129	63	21,1	on/off
931197.00X.76	D 154, H 157	830	4000	31	129	63	21,1	DALI
931197.00X.1	D 154, H 157	840	4150	31	134	63	21,2	on/off
931197.00X.1.76	D 154, H 157	840	4150	31	134	63	21,2	DALI

Suspension system

Price Category 21

982716.00X	D 72, H 175, LP 3000	Pendant set, 3 m with 5-pin power cable (IP 68)
982720.00X	D 72, H 175, LP 5000	Pendant set, 5 m with 5-pin power cable (IP 68)

Not suitable for ANDHO mini DALI versions.

Clear reeded glass with mounting attachment

Price Category 12

982159.000	D 117, H 58	ANDHO mini. Elliptical beam angle.
982160.000	D 159, H 58	ANDHO midi. Elliptical beam angle.

Comparison LED vs. conventional lamps

LED 13 W ≈

1 x 20 W HIT (23 W Psys)

LED 15 W ≈

1 x 32 W TC-TEL (36 W Psys)

LED 27 W ≈

1 x 35 W HIT (43 W Psys)

1 x 42 W TC-TEL (47 W Psys)

LED 31 W ≈

1 x 50 W HIT (56 W Psys)

1 x 57 W TC-TEL (59 W Psys)





HELEDON

Surface mounted downlights

ARCHITECTURE

- **Design-oriented:** Classic, timeless and with minimalist design.
- **Flexible:** Surface and recessed mounted downlights.
- **Versatile:** 2 sizes, 2 types of installation, 2 optical systems, 3 colours.
- **Individual:** 8 interchangeable lenses with different beam angles.
- **Long service life:** Housing made of top quality die-cast aluminium.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.



Further luminaires of this series, see:
Indoor lighting | Recessed downlights

LIGHTING DESIGN

- **Variable:** MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone.
- **Standard:** Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality.
- **Versatile:** 7 different light colors with CRI >90 and special Food-LEDs available as standard.
- **Advantageous:** LED rated life 50000 h (L90/B10).
- **Optimum:** Colour tolerance within 2-steps MacAdam (2 SDCM).

INSTALLATION

- **Easy installation:** Easy installation with a separate ceiling frame with bayonet mounting and plug connection.
- **Straightforward:** Installation could not be easier thanks to Plug & Play.
- **Extensive:** The following accessories can be mounted without use of tools: interchangeable lenses, decorative glasses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring.





Surface mounted downlights | HELEDON mini - Optic reflector

Type of protection: IP 20

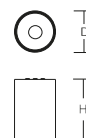
Protection class: I

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Internal ceiling frame polycarbonate with bayonet mounting. Connected via plug-in connector. Heat resistant plastic ring black. With MIRO-SILVER® reflector, Driver integrated.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 35 W HIT (43 W Psys)

1 x 42 W TC-TEL (47 W Psys)

LED 29 W ≈

1 x 50 W HIT (56 W Psys)

1 x 57 W TC-TEL (59 W Psys)



Surface mounted downlights - Reflector spot

Price Category 21

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency# [lm/W]	α [°]	UGR	Lighting control
931200.00X	D 87, H 197	930	2450	20	123	18	13,9	on/off
931200.00X.76	D 87, H 197	930	2450	20	123	18	13,9	DALI
931200.00X.1	D 87, H 197	940	2550	20	128	18	14	on/off
931200.00X.1.76	D 87, H 197	940	2550	20	128	18	14	DALI
931208.00X	D 87, H 197	930	3500	29	121	18	15,1	on/off
931208.00X.76	D 87, H 197	930	3500	29	121	18	15,1	DALI
931208.00X.1	D 87, H 197	940	3550	29	122	18	15,2	on/off
931208.00X.1.76	D 87, H 197	940	3550	29	122	18	15,2	DALI



Surface mounted downlights - Reflector medium

Price Category 21

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency# [lm/W]	α [°]	UGR	Lighting control
931201.00X	D 87, H 197	930	2400	20	120	31	14,3	on/off
931201.00X.76	D 87, H 197	930	2400	20	120	31	14,3	DALI
931201.00X.1	D 87, H 197	940	2450	20	123	31	14,3	on/off
931201.00X.1.76	D 87, H 197	940	2450	20	123	31	14,3	DALI
931209.00X	D 87, H 197	930	3350	29	116	31	15,4	on/off
931209.00X.76	D 87, H 197	930	3350	29	116	31	15,4	DALI
931209.00X.1	D 87, H 197	940	3500	29	121	31	15,6	on/off
931209.00X.1.76	D 87, H 197	940	3500	29	121	31	15,6	DALI



Surface mounted downlights - Reflector wide flood

Price Category 21

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency# [lm/W]	α [°]	UGR	Lighting control
931202.00X	D 87, H 197	930	2450	20	123	60	20,5	on/off
931202.00X.76	D 87, H 197	930	2450	20	123	60	20,5	DALI
931202.00X.1	D 87, H 197	940	2550	20	128	60	20,7	on/off
931202.00X.1.76	D 87, H 197	940	2550	20	128	60	20,7	DALI
931210.00X	D 87, H 197	930	3500	29	121	60	21,8	on/off
931210.00X.76	D 87, H 197	930	3500	29	121	60	21,8	DALI
931210.00X.1	D 87, H 197	940	3650	29	126	60	21,9	on/off
931210.00X.1.76	D 87, H 197	940	3650	29	126	60	21,9	DALI



Surface mounted downlights | HELEDON mini - Oval corridor optic lens

Type of protection: IP 20

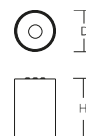
Protection class: I

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Internal ceiling frame polycarbonate with bayonet mounting. Connected via plug-in connector. Heat resistant plastic ring black. With optical assembly polycarbonate lens. Driver integrated.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Surface mounted downlights - Oval corridor lens

Price Category 21

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency# [lm/W]	α [°]	UGR	Lighting control
931207.00X	D 87, H 197	930	1850	20	93	40/28	20,5	on/off
931207.00X.76	D 87, H 197	930	1850	20	93	40/28	20,5	DALI
931207.00X.1	D 87, H 197	940	1950	20	98	40/28	20,7	on/off
931207.00X.1.76	D 87, H 197	940	1950	20	98	40/28	20,7	DALI
931215.00X	D 87, H 197	930	2650	29	91	40/28	21,8	on/off
931215.00X.76	D 87, H 197	930	2650	29	91	40/28	21,8	DALI
931215.00X.1	D 87, H 197	940	2750	29	95	40/28	21,9	on/off
931215.00X.1.76	D 87, H 197	940	2750	29	95	40/28	21,9	DALI

Surface mounted downlights | HELEDON mini - Optic lens

Type of protection: IP 20

Protection class: I

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Internal ceiling frame polycarbonate with bayonet mounting. Connected via plug-in connector. Heat resistant plastic ring black. With optical assembly polycarbonate lens. Driver integrated.

Available colours (X): 2 = white, 3 = black, 4 = silver

 Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com


Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	UGR	Lighting control
Surface mounted downlights - Spot lens							
Price Category 21							
931203.00X	D 87, H 197	930	2150	20	108	20	on/off
931203.00X.76	D 87, H 197	930	2150	20	108	20	DALI
931203.00X.1	D 87, H 197	940	2250	20	113	20	on/off
931203.00X.1.76	D 87, H 197	940	2250	20	113	20	DALI
931211.00X	D 87, H 197	930	3050	29	105	20	on/off
931211.00X.76	D 87, H 197	930	3050	29	105	20	DALI
931211.00X.1	D 87, H 197	940	3200	29	110	20	on/off
931211.00X.1.76	D 87, H 197	940	3200	29	110	20	DALI

Surface mounted downlights - Medium lens							
Price Category 21							
931204.00X	D 87, H 197	930	2050	20	103	31	on/off
931204.00X.76	D 87, H 197	930	2050	20	103	31	DALI
931204.00X.1	D 87, H 197	940	2100	20	105	31	on/off
931204.00X.1.76	D 87, H 197	940	2100	20	105	31	DALI
931212.00X	D 87, H 197	930	2900	29	100	31	on/off
931212.00X.76	D 87, H 197	930	2900	29	100	31	DALI
931212.00X.1	D 87, H 197	940	3050	29	105	31	on/off
931212.00X.1.76	D 87, H 197	940	3050	29	105	31	DALI

Surface mounted downlights - Flood lens							
Price Category 21							
931205.00X	D 87, H 197	930	1900	20	95	44	on/off
931205.00X.76	D 87, H 197	930	1900	20	95	44	DALI
931205.00X.1	D 87, H 197	940	2000	20	100	44	on/off
931205.00X.1.76	D 87, H 197	940	2000	20	100	44	DALI
931213.00X	D 87, H 197	930	2750	29	95	44	on/off
931213.00X.76	D 87, H 197	930	2750	29	95	44	DALI
931213.00X.1	D 87, H 197	940	2850	29	98	44	on/off
931213.00X.1.76	D 87, H 197	940	2850	29	98	44	DALI

Surface mounted downlights - Extra wide flood lens							
Price Category 21							
931206.00X	D 87, H 197	930	2200	20	110	72	on/off
931206.00X.76	D 87, H 197	930	2200	20	110	72	DALI
931206.00X.1	D 87, H 197	940	2300	20	115	72	on/off
931206.00X.1.76	D 87, H 197	940	2300	20	115	72	DALI
931214.00X	D 87, H 197	930	3100	29	107	72	on/off
931214.00X.76	D 87, H 197	930	3100	29	107	72	DALI
931214.00X.1	D 87, H 197	940	3250	29	112	72	on/off
931214.00X.1.76	D 87, H 197	940	3250	29	112	72	DALI

Comparison LED vs. conventional lamps
LED 20 W ≈

 1 x 35 W HIT (43 W Psys)
 1 x 42 W TC-TEL (47 W Psys)

LED 29 W ≈

 1 x 50 W HIT (56 W Psys)
 1 x 57 W TC-TEL (59 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°


 Accessories:
 Page 392



Surface mounted downlights | HELEDON maxi - Optic reflector

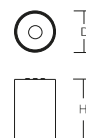
Type of protection: IP 20

Protection class: I

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Internal ceiling frame polycarbonate with bayonet mounting. Connected via plug-in connector. Heat resistant plastic ring black. With MIRO-SILVER® reflector. Driver integrated.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.comComparison
LED vs. conventional lamps

LED 25 W ≈

1 x 35 W HIT (43 W Psys)

LED 35 W ≈

1 x 50 W HIT (56 W Psys)



Surface mounted downlights - Reflector spot

Price Category 21

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency [#] [lm/W]	Beam angle [°]	UGR	Lighting control
931216.00X	D 123, H 183	930	3050	25	122	12	13,2	on/off
931216.00X.76	D 123, H 183	930	3050	25	122	12	13,2	DALI
931216.00X.1	D 123, H 183	940	3200	25	128	12	13,4	on/off
931216.00X.1.76	D 123, H 183	940	3200	25	128	12	13,4	DALI
931223.00X	D 123, H 183	930	4000	35	114	12	14,1	on/off
931223.00X.76	D 123, H 183	930	4000	35	114	12	14,1	DALI
931223.00X.1	D 123, H 183	940	4200	35	120	12	14,3	on/off
931223.00X.1.76	D 123, H 183	940	4200	35	120	12	14,3	DALI



Surface mounted downlights - Reflector medium

Price Category 21

931217.00X	D 123, H 183	930	3150	25	126	21	13,2	on/off
931217.00X.76	D 123, H 183	930	3150	25	126	21	13,2	DALI
931217.00X.1	D 123, H 183	940	3300	25	132	21	13,4	on/off
931217.00X.1.76	D 123, H 183	940	3300	25	132	21	13,4	DALI
931224.00X	D 123, H 183	930	4200	35	120	21	14,2	on/off
931224.00X.76	D 123, H 183	930	4200	35	120	21	14,2	DALI
931224.00X.1	D 123, H 183	940	4300	35	123	21	14,3	on/off
931224.00X.1.76	D 123, H 183	940	4300	35	123	21	14,3	DALI



Surface mounted downlights - Reflector flood

Price Category 21

931218.00X	D 123, H 183	930	3150	25	126	33	13,8	on/off
931218.00X.76	D 123, H 183	930	3150	25	126	33	13,8	DALI
931218.00X.1	D 123, H 183	940	3350	25	134	33	14	on/off
931218.00X.1.76	D 123, H 183	940	3350	25	134	33	14	DALI
931225.00X	D 123, H 183	930	4200	35	120	33	14,8	on/off
931225.00X.76	D 123, H 183	930	4200	35	120	33	14,8	DALI
931225.00X.1	D 123, H 183	940	4350	35	124	33	14,9	on/off
931225.00X.1.76	D 123, H 183	940	4350	35	124	33	14,9	DALI



Surface mounted downlights - Reflector wide flood

Price Category 21

931219.00X	D 123, H 183	930	3050	25	122	65	19,8	on/off
931219.00X.76	D 123, H 183	930	3050	25	122	65	19,8	DALI
931219.00X.1	D 123, H 183	940	3200	25	128	65	20	on/off
931219.00X.1.76	D 123, H 183	940	3200	25	128	65	20	DALI
931226.00X	D 123, H 183	930	3950	35	113	65	20,7	on/off
931226.00X.76	D 123, H 183	930	3950	35	113	65	20,7	DALI
931226.00X.1	D 123, H 183	940	4200	35	120	65	20,9	on/off
931226.00X.1.76	D 123, H 183	940	4200	35	120	65	20,9	DALI

Accessories:
Page 393

Surface mounted downlights | HELEDON maxi - Optic lens

Type of protection: IP 20

Protection class: I

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Internal ceiling frame polycarbonate with bayonet mounting. Connected via plug-in connector. Heat resistant plastic ring black. With optical assembly polycarbonate lens. Driver integrated.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Surface mounted downlights - Spot lens

Price Category 21

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	UGR	Lighting control
931220.00X	D 123, H 183	930	2700	25	108	13	11	on/off
931220.00X.76	D 123, H 183	930	2700	25	108	13	11	DALI
931220.00X.1	D 123, H 183	940	2800	25	112	13	11,2	on/off
931220.00X.1.76	D 123, H 183	940	2800	25	112	13	11,2	DALI
931227.00X	D 123, H 183	930	3500	35	100	13	11,9	on/off
931227.00X.76	D 123, H 183	930	3500	35	100	13	11,9	DALI
931227.00X.1	D 123, H 183	940	3700	35	106	13	12,1	on/off
931227.00X.1.76	D 123, H 183	940	3700	35	106	13	12,1	DALI



Surface mounted downlights - Medium lens

Price Category 21

931221.00X	D 123, H 183	930	2600	25	104	31	13,3	on/off
931221.00X.76	D 123, H 183	930	2600	25	104	31	13,3	DALI
931221.00X.1	D 123, H 183	940	2700	25	108	31	13,5	on/off
931221.00X.1.76	D 123, H 183	940	2700	25	108	31	13,5	DALI
931228.00X	D 123, H 183	930	3400	35	97	31	14,3	on/off
931228.00X.76	D 123, H 183	930	3400	35	97	31	14,3	DALI
931228.00X.1	D 123, H 183	940	3550	35	101	31	14,4	on/off
931228.00X.1.76	D 123, H 183	940	3550	35	101	31	14,4	DALI



Surface mounted downlights - Flood lens

Price Category 21

931222.00X	D 123, H 183	930	2650	25	106	42	14,6	on/off
931222.00X.76	D 123, H 183	930	2650	25	106	42	14,6	DALI
931222.00X.1	D 123, H 183	940	2800	25	112	42	14,7	on/off
931222.00X.1.76	D 123, H 183	940	2800	25	112	42	14,7	DALI
931229.00X	D 123, H 183	930	3450	35	99	42	15,5	on/off
931229.00X.76	D 123, H 183	930	3450	35	99	42	15,5	DALI
931229.00X.1	D 123, H 183	940	3650	35	104	42	15,7	on/off
931229.00X.1.76	D 123, H 183	940	3650	35	104	42	15,7	DALI

Comparison LED vs. conventional lamps

LED 25 W ≈
1 x 35 W HIT (43 W Psys)

LED 35 W ≈
1 x 50 W HIT (56 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



Accessories:
Page 393



Surface mounted downlights | HELEDON maxi - Food optic reflector

Type of protection: IP 20

Protection class: I

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Internal ceiling frame polycarbonate with bayonet mounting. Connected via plug-in connector. Heat resistant plastic ring black. With MIRO-SILVER® reflector and special food LED. Driver integrated.

Available colours (X): 2 = white, 3 = black, 4 = silver



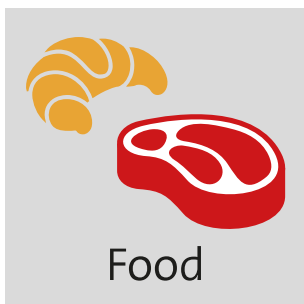
Food LED light colours show food in its best light:

- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency ¹ [lm/W]	α [°]	UGR	Lighting control
Surface mounted downlights - Reflector spot								Price Category 21
931244.00X.2	D 123, H 183	bakery	3300	33	100	17	13,6	on/off
931244.00X.2.76	D 123, H 183	bakery	3300	33	100	17	13,6	DALI
931230.00X	D 123, H 183	fresh meat	2100	33	64	17	12,1	on/off
931230.00X.76	D 123, H 183	fresh meat	2100	33	64	17	12,1	DALI
931237.00X	D 123, H 183	meat +	2200	33	67	17	12,2	on/off
931237.00X.76	D 123, H 183	meat +	2200	33	67	17	12,2	DALI
Surface mounted downlights - Reflector medium								Price Category 21
931245.00X.2	D 123, H 183	bakery	3400	33	103	23	13,9	on/off
931245.00X.2.76	D 123, H 183	bakery	3400	33	103	23	13,9	DALI
931231.00X	D 123, H 183	fresh meat	2150	33	65	23	12,3	on/off
931231.00X.76	D 123, H 183	fresh meat	2150	33	65	23	12,3	DALI
931238.00X	D 123, H 183	meat +	2250	33	68	23	12,5	on/off
931238.00X.76	D 123, H 183	meat +	2250	33	68	23	12,5	DALI
Surface mounted downlights - Reflector flood								Price Category 21
931246.00X.2	D 123, H 183	bakery	3450	33	105	33	14,4	on/off
931246.00X.2.76	D 123, H 183	bakery	3450	33	105	33	14,4	DALI
931232.00X	D 123, H 183	fresh meat	2150	33	65	33	12,8	on/off
931232.00X.76	D 123, H 183	fresh meat	2150	33	65	33	12,8	DALI
931239.00X	D 123, H 183	meat +	2250	33	68	33	12,9	on/off
931239.00X.76	D 123, H 183	meat +	2250	33	68	33	12,9	DALI
Surface mounted downlights - Reflector wide flood								Price Category 21
931247.00X.2	D 123, H 183	bakery	3300	33	100	67	20,5	on/off
931247.00X.2.76	D 123, H 183	bakery	3300	33	100	67	20,5	DALI
931233.00X	D 123, H 183	fresh meat	2050	33	62	67	18,9	on/off
931233.00X.76	D 123, H 183	fresh meat	2050	33	62	67	18,9	DALI
931240.00X	D 123, H 183	meat +	2150	33	65	67	19	on/off
931240.00X.76	D 123, H 183	meat +	2150	33	65	67	19	DALI



Accessories:
Page 393



Surface mounted downlights | HELEDON maxi - Food optic lens

Type of protection: IP 20

Protection class: I

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Internal ceiling frame polycarbonate with bayonet mounting. Connected via plug-in connector. Heat resistant plastic ring black. With optical assembly polycarbonate lens and special food LED. Driver integrated.

Available colours (X): 2 = white, 3 = black, 4 = silver



Food LED light colours show food in its best light:

- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



Surface mounted downlights - Spot lens

Price Category 21

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	UGR	Lighting control
931248.00X.2	D 123, H 183	bakery	2950	33	89	17	on/off
931248.00X.2.76	D 123, H 183	bakery	2950	33	89	17	DALI
931234.00X	D 123, H 183	fresh meat	1800	33	55	17	on/off
931234.00X.76	D 123, H 183	fresh meat	1800	33	55	17	DALI
931241.00X	D 123, H 183	meat +	1900	33	58	17	on/off
931241.00X.76	D 123, H 183	meat +	1900	33	58	17	DALI



Surface mounted downlights - Medium lens

Price Category 21

931249.00X.2	D 123, H 183	bakery	2850	33	86	35	on/off
931249.00X.2.76	D 123, H 183	bakery	2850	33	86	35	DALI
931235.00X	D 123, H 183	fresh meat	1750	33	53	35	on/off
931235.00X.76	D 123, H 183	fresh meat	1750	33	53	35	DALI
931242.00X	D 123, H 183	meat +	1850	33	56	35	on/off
931242.00X.76	D 123, H 183	meat +	1850	33	56	35	DALI

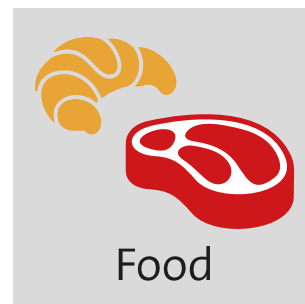


Surface mounted downlights - Flood lens

Price Category 21

931250.00X.2	D 123, H 183	bakery	2900	33	88	44	on/off
931250.00X.2.76	D 123, H 183	bakery	2900	33	88	44	DALI
931236.00X	D 123, H 183	fresh meat	1800	33	55	44	on/off
931236.00X.76	D 123, H 183	fresh meat	1800	33	55	44	DALI
931243.00X	D 123, H 183	meat +	1900	33	58	44	on/off
931243.00X.76	D 123, H 183	meat +	1900	33	58	44	DALI

Accessories:
Page 393





Accessories | HELEDON mini



Diffuser		Price Category 21
982370.000	D 74, H 3	Safety glass, clear.
982370.010	D 74, H 3	Safety glass, satin finish.



Decorative glasses		Price Category 21
982647.002	D 87, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.
982648.002	D 87, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.



Anti-glare honeycomb louvre		Price Category 21
982371.003	D 74, H 3	Aluminium, anodised matt black.



Interchangeable plastic rings		Price Category 21
982419.002	D 82, H 20	White plastic ring for reflector.
982421.002	D 82, H 31	White plastic ring for lens.



Interchangeable optics		Price Category 21
982368.003	D 82, H 55	Reflector spot, narrow beam
982368.013	D 82, H 55	Reflector medium, medium beam
982368.023	D 82, H 55	Reflector flood, wide beam
982368.033	D 82, H 55	Reflector wide flood, very wide beam
982369.003	D 82, H 55	Spot lens, narrow beam
982369.013	D 82, H 55	Medium lens, medium beam
982369.023	D 82, H 55	Flood lens, wide beam
982369.033	D 82, H 55	Extra wide flood lens, extremely wide beam
982369.043	D 82, H 55	Lens with oval light distribution for corridor

Accessories | HELEDON maxi



Diffuser			Price Category 21
982374.000	D 111, H 3	Safety glass, clear.	
982374.010	D 111, H 3	Safety glass, satin finish.	



Decorative glasses			Price Category 21
982649.002	D 123, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.	
982650.002	D 123, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.	



Anti-glare honeycomb louvre			Price Category 21
982375.003	D 111, H 3	Aluminium, anodised matt black.	



Interchangeable plastic rings			Price Category 21
982420.002	D 118, H 20	White plastic ring for reflector.	
982422.002	D 118, H 33	White plastic ring for lens.	



Interchangeable optics			Price Category 21
982372.003	D 118, H 83	Reflector spot, narrow beam	
982372.013	D 118, H 83	Reflector medium, medium beam	
982372.023	D 118, H 83	Reflector flood, wide beam	
982372.033	D 118, H 83	Reflector wide flood, very wide beam	
982373.003	D 118, H 83	Spot lens, narrow beam	
982373.013	D 118, H 83	Medium lens, medium beam	
982373.023	D 118, H 83	Flood lens, wide beam	



superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



DALI



IP40



TOLEDO FLAT

Surface mounted downlights

ARCHITECTURE

- **Versatile:** Extra flat LED surface-mounted downlight in five sizes round and four sizes square.
- **Reduced:** Very low installation height.
- **Safe:** Also available as an emergency luminaire in accordance with EN 60598-2-22.
- **Applicable:** Corridors, side rooms, hotels, restaurants, conference rooms, private rooms.

LIGHTING DESIGN

- **Homogenous:** Diffuser made of non-yellowing plastic (PMMA) opal or microprismatic.
- **Optimum:** LED rated life 50,000 h (L80/B50).
- **Combinable:** Mounting rings for retrofitting a fabric lampshade available as accessory.

INSTALLATION

- **Variable:** Suitable for ceiling and wall mounting.
- **Straightforward:** Easy installation with Plug & Play plug connection.
- **Advantageous:** DALI variants suitable for through wiring as standard (only D 500 mm).



Further luminaires of this series, see:

Indoor lighting | Recessed modular luminaires

Indoor lighting | Pendant luminaires

Indoor lighting | Fabric lampshade luminaires

Indoor lighting | Recessed downlights

Surface mounted downlights | TOLEDO FLAT round

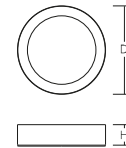
 Type of protection: **IP 40**

Protection class: II

Impact protection: IK06

Cylinder housing sheet steel, powder coated. Bezel ring: die-cast aluminium, powder coated. Lightguide and diffuser made of non-yellowing PMMA, opal matt or prismatic.

Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control	
Surface mounted downlights									
Diffuser: plastic, opal									
Diameter D 150 mm									
901495.002	D 150, H 57	830	470	5	94	110	27	on/off	✓
901495.002.1	D 150, H 57	840	530	5	106	110	27,4	on/off	✓
Diameter D 192 mm									
901496.002	D 192, H 58	830	780	7,7	101	110	26,4	on/off	✓
901496.002.76	D 192, H 58	830	780	7,7	101	110	26,4	DALI	
901496.002.1	D 192, H 58	840	840	7,7	109	110	26,6	on/off	✓
901496.002.1.76	D 192, H 58	840	840	7,7	109	110	26,6	DALI	
Diameter D 257 mm									
901497.002	D 257, H 63	830	1650	17	97	110	26,6	on/off	✓
901497.002.76	D 257, H 63	830	1650	17	97	110	26,6	DALI	
901497.002.1	D 257, H 63	840	1800	17	106	110	26,8	on/off	✓
901497.002.1.76	D 257, H 63	840	1800	17	106	110	26,8	DALI	
Diameter D 319 mm									
901498.002	D 319, H 63	830	2150	22	98	108	25,5	on/off	✓
901498.002.76	D 319, H 63	830	2150	22	98	108	25,5	DALI	
901498.002.1	D 319, H 63	840	2250	22	102	108	25,7	on/off	✓
901498.002.1.76	D 319, H 63	840	2250	22	102	108	25,7	DALI	
Diameter D 500 mm									
901587.002	D 500, H 63	830	3550	30	118	113	23,9	on/off	✓
901587.002.76	D 500, H 63	830	3550	30	118	113	23,9	DALI	
901587.002.1	D 500, H 63	840	3600	30	120	113	23,9	on/off	✓
901587.002.1.76	D 500, H 63	840	3600	30	120	113	23,9	DALI	
Diffuser: transparent plastic, microprismatic									
Diameter D 500 mm									
901588.002	D 500, H 63	830	3450	30	115	88	21,1	on/off	✓
901588.002.76	D 500, H 63	830	3450	30	115	88	21,1	DALI	
901588.002.1	D 500, H 63	840	3550	30	118	88	21,4	on/off	✓
901588.002.1.76	D 500, H 63	840	3550	30	118	88	21,4	DALI	

Accessories | Anti-Glow-Module

Prevents the generally rarely occurring afterglow with DALI luminaires in the state switched off via DALI in connection with disproportionate grounding concepts. The Anti-Glow module is connected between the converter and the luminaire housing.

Anti-Glow Module

983000.002 L 40, B 25, H 15 2 pole, cable length 250 mm.

Price Category 21
Accessories | Mounting ring for fabric lamp shades

Retrofittable holder for a tool-free mounting of a lamp shade. Ring metal powder coated. With M4 threaded and knurled nuts plastic.

Mounting ring for fabric lamp shades

982386.002	D 162, H 10	For TOLEDO FLAT round D 150 For mounting the lamp shade TOLEDO FLATLINER 200
982387.002	D 204, H 10	For TOLEDO FLAT round D 192 For mounting the lamp shade TOLEDO FLATLINER 242
982388.002	D 270, H 10	For TOLEDO FLAT round D 257 For mounting the lamp shade TOLEDO FLATLINER 307
982389.002	D 331, H 10	For TOLEDO FLAT round D 319 For mounting the lamp shade TOLEDO FLATLINER 369

Price Category 21


Further luminaires of this series and a colour chart with more than 50 available colours, see: Indoor Lighting: Fabric lampshade luminaires

Comparison LED vs. conventional lamps
LED 5 W ≈ 1 x 10 W TC-D (16 W Psys)
LED 7,7 W ≈ 1 x 18 W TC-D (26 W Psys)
LED 17 W ≈ 2 x 18 W TC-D (52 W Psys) 1 x 22 W T16-R (25 W Psys)
LED 22 W ≈ 2 x 26 W TC-D (68 W Psys) 1 x 40 W T16-R (43 W Psys)
LED 30 W ≈ 3 x 26 W TC-D (102 W Psys) 1 x 60 W T16-R (65 W Psys)



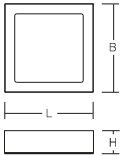
This luminaire is also available as self-contained and/or emergency luminaire for central battery systems according to EN 60598 2-22 – further information page 11.





Surface mounted downlights | TOLEDO FLAT square

Type of protection: **IP 40**
Protection class: II
Impact protection: IK06
Surface mounted housing: sheet steel, powder coated, Square cover plate: die-cast aluminium, powder coated, Light guide and diffuser made of non-yellowing PMMA, opal matt.
Available colour: 2 = white



Comparison
LED vs. conventional lamps

LED 5 W ≈
1 x 10 W TC-D (16 W Psys)

LED 8 W ≈
1 x 18 W TC-D (26 W Psys)

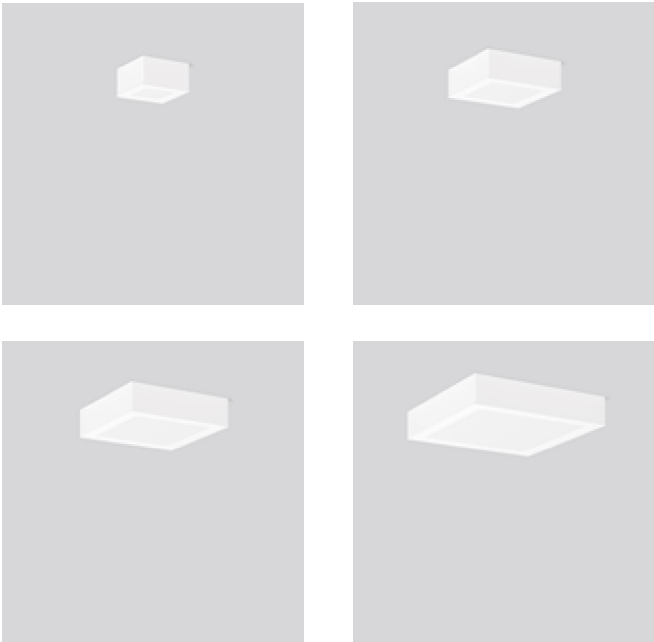
LED 17 W ≈
2 x 18 W TC-D (52 W Psys)
1 x 22 W T16-R (25 W Psys)

LED 21 W ≈
2 x 26 W TC-D (68 W Psys)
1 x 40 W T16-R (43 W Psys)

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control	
Surface mounted downlights									
Price Category 21									
Length L 110 mm x Width B 110 mm									
901551.002	L 110, B 110, H 58	830	420	5	84	107	28,7	on/off	✓
901551.002.1	L 110, B 110, H 58	840	430	5	86	107	28,8	on/off	✓
Length L 172 mm x Width B 172 mm									
901552.002	L 172, B 172, H 58	830	770	8	96	108	25,9	on/off	✓
901552.002.76	L 172, B 172, H 58	830	770	8	96	108	25,9	DALI	
901552.002.1	L 172, B 172, H 58	840	800	8	100	108	26,1	on/off	✓
901552.002.1.76	L 172, B 172, H 58	840	800	8	100	108	26,1	DALI	
Length L 225 mm x Width B 225 mm									
901553.002	L 225, B 225, H 58	830	1650	17	97	108	26,1	on/off	✓
901553.002.76	L 225, B 225, H 58	830	1650	17	97	108	26,1	DALI	
901553.002.1	L 225, B 225, H 58	840	1800	17	106	108	26,4	on/off	✓
901553.002.1.76	L 225, B 225, H 58	840	1800	17	106	108	26,4	DALI	
Length L 300 mm x Width B 300 mm									
901554.002	L 300, B 300, H 58	830	2150	21	102	108	24,6	on/off	✓
901554.002.76	L 300, B 300, H 58	830	2150	21	102	108	24,6	DALI	
901554.002.1	L 300, B 300, H 58	840	2250	21	107	108	24,7	on/off	✓
901554.002.1.76	L 300, B 300, H 58	840	2250	21	107	108	24,7	DALI	

Accessories Anti-Glow-Module									
Prevents the generally rarely occurring afterglow with DALI luminaires in the state switched off via DALI in connection with disproportionate grounding concepts. The Anti-Glow module is connected between the converter and the luminaire housing.									
Anti-Glow Module									
Price Category 21									
983000.002	L 40, B 25, H 15	2 pole, cable length 250 mm.							

This luminaire is also available as self-contained and/or emergency luminaire for central battery systems according to EN 60598 2-22 – further information page 11.







Tunable White



HCL ready



UGR ≤ 19



CRI
>90



COI
compliant



DALI



Casambi
smart+
free



CLO
Constant
Light Output



Plug & Play



IP40

TOLEDO FLAT PRO

Surface mounted downlights

ARCHITECTURE

- **Versatile:** Ultra-flat round downlight suitable for recessed or surface installation.
- **Robust:** Diffuser made from resistant polycarbonate (PC) with smooth surface on room side.
- **Applicable:** Treatment rooms in health centres, locations with stringent hygienic requirements.
- **Smart Lighting:** Tunable White versions are predestined for use in the context of Human Centric Lighting (HCL) in combination with RZB light management systems.

LIGHTING DESIGN

- **Anti-glare:** Satinised microprismatic diffuser prevents direct glare.
- **Advantageous:** Model with light colour 940 suitable for medical applications in accordance with the Cyanosis Observation Index (COI <3,3).
- **Complies with regulations:** Particularly suitable for the requirements of treatment rooms in healthcare facilities, in accordance with EN 12464 (UGR ≤19, CRI >90).
- **Reliable planning:** LED rated life 80000 h, CLO controlled for constant light output throughout the entire service life.
- **Dynamic:** Tunable white dynamically adjustable from 2700 K to 6500 K.

INSTALLATION

- **Easy installation:** Quick and easy to install.
- **Straightforward:** Easy installation with Plug & Play plug connection.
- **Standard:** Suitable for through-wiring.
- **Clean:** Easy cleaning if resistant to cleaning agents / disinfectants.
- **Connected:** Versions with Casambi smart+free Bluetooth® control system for wireless network.

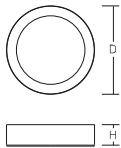



Further luminaires of this series, see:
Indoor lighting | Recessed downlights

For more information, see the chapter recessed downlights on page 366.

Surface mounted downlights | TOLEDO FLAT PRO

Type of protection: **IP 40**
 Protection class: II
 Impact protection: IK06
 Cylinder housing sheet steel, powder coated. Bezel ring: die-cast aluminium, powder coated.
 Diffuser made from resistant polycarbonate (PC), with smooth surface on room side.
 Driver integrated.
 Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	UGR	Lighting control
Surface mounted downlights								
Diffuser made of smooth, satin finish microprismatic polycarbonate								
901720.002.76	D 500, H 63	930	2650	26	102	81	18,3	DALI
901720.002.1.76 *	D 500, H 63	940	2800	26	108	81	18,5	DALI
Tunable White - 2700 K to 6500 K								
901720.002.2.76	D 500, H 63	927-965	2700	30	90	81	18,2...18,5	DALI
901720.002.2.730	D 500, H 63	927-965	2700	30	90	81	18,2...18,5	smart+free

* Qualified for medical applications according to Cyanosis Observation Index (COI <3.3).

Price Category 21

Comparison
LED vs. conventional lamps

LED 26 / 30 W ≈
1 x 55 W T16-R (60 W Psys)





TOLEDO FLAT+

Surface mounted downlights

ARCHITECTURE

- **Versatile:** Extra flat surface-mounted downlight in four sizes round and three sizes square.
- **Design-oriented:** Minimalist design. Very low installation height.
- **Individual:** Tunable White versions are predestined for use in the context of Human Centric Lighting (HCL) in combination with RZB light management systems.
- **Applicable:** Corridors, side rooms, hotels, restaurants, conference rooms, private rooms.

LIGHTING DESIGN

- **Anti-glare:** Models suitable for office areas and computer workstations.
- **Homogenous:** Diffuser made of non-yellowing plastic (PMMA) opal or microprismatic.
- **Standard:** MultiLumen - 4-step adjustable luminous flux.
- **Flexible:** MultiColour - Colour temperature individually adjustable either 3000 K or 4000 K.
- **Dynamic:** Tunable white dynamically adjustable from 2700 K to 6500 K.

INSTALLATION

- **Easy installation:** Quick and easy to install.
- **Straightforward:** Easy installation with Plug & Play plug connection.
- **Variable:** Suitable for ceiling and wall mounting.
- **Connected:** Versions with Casambi smart+free Bluetooth® control system for wireless network.



Further luminaires of this series, see:
Indoor lighting | Recessed downlights





Surface mounted downlights | TOLEDO FLAT+ round

Type of protection: **IP 40**

Protection class: II

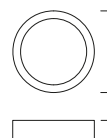
Impact protection: IK03

Housing: die-cast aluminium. Diffuser made of non-yellowing plastic (PMMA) opal or microprismatic. LED backlight technology for homogeneous illumination of the entire light-emitting surface.

Available colours (X): 2 = white, 31 = anthracite

MultiColour: Colour temperature adjustable via switching element. Factory setting is 4000 K.**MultiLumen:** Luminous flux variable in 4 steps. Factory setting is step 2.

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.

Comparison
LED vs. conventional lamps**LED 4,5 W ≈**

1 x 13 W TC-D (19 W Psys)

LED 9,5 / 10 W ≈

1 x 26 W TC-D (34 W Psys)

LED 12 W ≈

2 x 18 W TC-D (52 W Psys)

LED 17 / 18 W ≈

2 x 26 W TC-D (68 W Psys)

LED 22 / 26 W ≈

3 x 26 W TC-D (102 W Psys)

LED 33 W ≈

4 x 26 W TC-D (136 W Psys)



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control
Surface mounted downlights								
Diffuser: plastic, opal								
Diameter D 165 mm								
901819.00X	D 165, H 70	830, 840	570...1150	4,5...9,5	127	112	26,2...28,7	on/off
901819.00X.76	D 165, H 70	830, 840	570...1150	4,5...9,5	127	112	26,2...28,7	DALI
Diameter D 270 mm								
901820.00X	D 270, H 70	830, 840	1650...3150	12...22	147	112	25,6...27,8	on/off
901820.00X.76	D 270, H 70	830, 840	1650...3150	12...22	147	112	25,6...27,8	DALI
Tunable White - 2700 K to 6500 K								
901820.00X.2.76	D 270, H 70	827-865	2200	18	128	113	26,7...26,8	DALI
901820.00X.2.730	D 270, H 70	827-865	2200	18	128	113	26,7...26,8	smart+free
Diameter D 390 mm								
901822.00X	D 390, H 70	830, 840	1550...2950	12...22	137	113	22,4...24,7	on/off
901822.00X.76	D 390, H 70	830, 840	1550...2950	12...22	137	113	22,4...24,7	DALI
Tunable White - 2700 K to 6500 K								
901822.00X.2.76	D 390, H 70	827-865	1950	17	121	113	23,3...23,5	DALI
901822.00X.2.730	D 390, H 70	827-865	1950	17	121	113	23,3...23,5	smart+free
Diameter D 470 mm								
901824.00X	D 470, H 70	830, 840	3050...4450	22...33	139	113	23,3...24,6	on/off
901824.00X.76	D 470, H 70	830, 840	3050...4450	22...33	139	113	23,3...24,6	DALI
Tunable White - 2700 K to 6500 K								
901824.00X.2.76	D 470, H 70	827-865	3150	26	127	113	23,5...23,7	DALI
901824.00X.2.730	D 470, H 70	827-865	3150	26	127	113	23,5...23,7	smart+free
Diffuser plastic microprismatic								
Diameter D 270 mm								
901821.00X	D 270, H 70	830, 840	1450...2800	12...22	130	89	21,7...24	on/off
901821.00X.76	D 270, H 70	830, 840	1450...2800	12...22	130	89	21,7...24	DALI
Tunable White - 2700 K to 6500 K								
901821.00X.2.76	D 270, H 70	827-865	2000	18	117	90	22,8...23	DALI
901821.00X.2.730	D 270, H 70	827-865	2000	18	117	90	22,8...23	smart+free
Diameter D 390 mm								
901823.00X	D 390, H 70	830, 840	1350...2550	12...22	120	78	17,7...19,9	on/off
901823.00X.76	D 390, H 70	830, 840	1350...2550	12...22	120	78	17,7...19,9	DALI
Tunable White - 2700 K to 6500 K								
901823.00X.2.76	D 390, H 70	827-865	1750	17	106	78	18,6...18,7	DALI
901823.00X.2.730	D 390, H 70	827-865	1750	17	106	78	18,6...18,7	smart+free
Diameter D 470 mm								
901825.00X	D 470, H 70	830, 840	2600...3800	22...33	118	78	18,5...19,8	on/off
901825.00X.76	D 470, H 70	830, 840	2600...3800	22...33	118	78	18,5...19,8	DALI
Tunable White - 2700 K to 6500 K								
901825.00X.2.76	D 470, H 70	827-865	2750	26	112	78	18,6...18,8	DALI
901825.00X.2.730	D 470, H 70	827-865	2750	26	112	78	18,6...18,8	smart+free



Surface mounted downlights | TOLEDO FLAT+ square

 Type of protection: **IP 40, IP 54**

Protection class: II

Impact protection: IK03

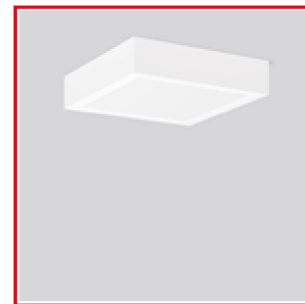
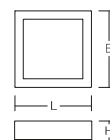
Housing: die-cast aluminium. Diffuser made of non-yellowing plastic (PMMA) opal or microprismatic. LED backlight technology for homogeneous illumination of the entire light-emitting surface.

Available colours (X): 2 = white, 31 = anthracite

MultiColour: Colour temperature adjustable via switching element. Factory setting is 4000 K.

MultiLumen: Luminous flux variable in 4 steps. Factory setting is step 2.

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	UGR	Lighting control	Price Category 21
Surface mounted downlights									
Diffuser: plastic, opal									
Length L 150 mm x Width B 150 mm									
901826.00X	L 150, B 150, H 70	830, 840	570...1150	4,5...9,5	127	111	26,3...28,8	on/off	
901826.00X.76	L 150, B 150, H 70	830, 840	570...1150	4,5...9,5	127	111	26,3...28,8	DALI	
Length L 230 mm x Width B 230 mm									
901827.00X	L 230, B 230, H 70	830, 840	1050...2100	8...15	146	112	24,5...27	on/off	
901827.00X.76	L 230, B 230, H 70	830, 840	1050...2100	8...15	146	112	24,5...27	DALI	
Tunable White - 2700 K to 6500 K									
901827.00X.2.76	L 230, B 230, H 70	827-865	1750	15	120	113	26,4...26,5	DALI	
901827.00X.2.730	L 230, B 230, H 70	827-865	1750	15	120	113	26,4...26,5	smart+free	
Length L 310 mm x Width B 310 mm									
901829.00X	L 310, B 310, H 70	830, 840	1650...3050	12...23	138	112	23,6...25,8	on/off	
901829.00X.76	L 310, B 310, H 70	830, 840	1650...3050	12...23	138	112	23,6...25,8	DALI	
Tunable White - 2700 K to 6500 K									
901829.00X.2.76	L 310, B 310, H 70	827-865	2250	19	124	113	24,8...24,9	DALI	
901829.00X.2.730	L 310, B 310, H 70	827-865	2250	19	124	113	24,8...24,9	smart+free	
Diffuser plastic microprismatic									
Length L 230 mm x Width B 230 mm									
901828.00X	L 230, B 230, H 70	830, 840	1000...1850	8...15	127	91	20,9...23,1	on/off	
901828.00X.76	L 230, B 230, H 70	830, 840	1000...1850	8...15	127	91	20,9...23,1	DALI	
Tunable White - 2700 K to 6500 K									
901828.00X.2.76	L 230, B 230, H 70	827-865	1550	15	107	91/91	22,5...22,6	DALI	
901828.00X.2.730	L 230, B 230, H 70	827-865	1550	15	107	91/91	22,5...22,6	smart+free	
Length L 310 mm x Width B 310 mm									
901830.00X	L 310, B 310, H 70	830, 840	1500...2800	12...23	125	91	19,8...22	on/off	
901830.00X.76	L 310, B 310, H 70	830, 840	1500...2800	12...23	125	91	19,8...22	DALI	
Tunable White - 2700 K to 6500 K									
901830.00X.2.76	L 310, B 310, H 70	827-865	2000	19	108	91/91	20,8...20,9	DALI	
901830.00X.2.730	L 310, B 310, H 70	827-865	2000	19	108	91/91	20,8...20,9	smart+free	

Comparison LED vs. conventional lamps
LED 4,5 W ≈

1 x 13 W TC-D (19 W Psys)

LED 8 / 9,5 / 10 W ≈

1 x 26 W TC-D (34 W Psys)

LED 12 / 15 W ≈

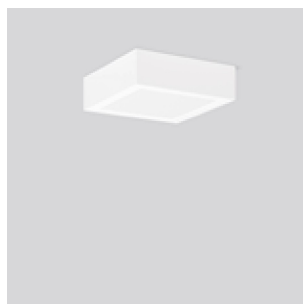
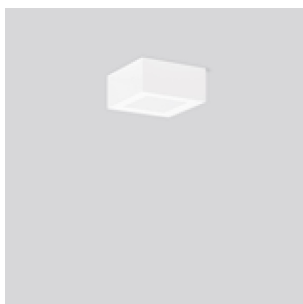
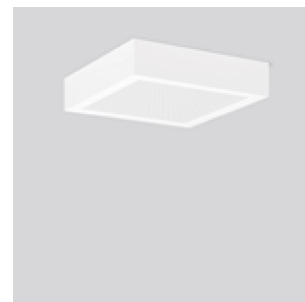
2 x 18 W TC-D (52 W Psys)

LED 19 W ≈

3 x 18 W TC-D (78 W Psys)

LED 23 W ≈

4 x 18 W TC-D (104 W Psys)



TRIXY

Everything at a glance

Recessed mounting

MultiCutOut:
Adjustable spring clamps for
different ceiling cut-outs
from 65-205 mm (Ø 235 mm)
or 120-260 mm (Ø 300 mm).
Ceiling thickness from 5-25 mm.



Suitable for through-wiring.



Adjustable
spring clamps.



MultiLumen: 3 steps
adjustable luminous flux.



MultiColour: Colour temperature
adjustable via switching element
to 3000 K or 4000 K.



Surface mounting

RZB SIDELITE® technology:
Lateral light injection for extremely
homogeneous light distribution.

Diffuser: Plastic, transparent,
with opal **reflector foil**.





TRIXY

Surface mounted downlights, Recessed downlights

ARCHITECTURE

- Flat downlight for recessed or surface installation in 2 sizes and in 2 shapes.
- 3-fold multi-function: MultiColour, MultiLumen, MultiCutOut.
- The MultiCutOut function makes it particularly suitable for renovations with existing ceiling cut-outs.
- Very low installation height.
- Applications: Renovations, corridors, side rooms, hotels, restaurants, conference rooms, private rooms.

LIGHTING DESIGN

- RZB SIDELITE® technology: Lateral light injection for extremely homogeneous light distribution.
- Suitable for ceiling and wall mounting.
- Luminous efficacy up to 125 lm/W.
- Colour rendering index Ra > 80.
- Colour tolerance within 4-steps MacAdam (4 SDCM).
- LED rated life 40000 h (L70/B50).

INSTALLATION

- **MultiColour:** with rear switching element, variable colour temperature 3000 K or 4000 K.
- **MultiLumen:** Luminous flux adjustable in 3 steps.
- **MultiCutOut:** With adjustable spring clamps, different round and square ceiling cut-outs can be individually adhered to.
- With integrated converter.
- Suitable for through-wiring.

Surface mounted downlights, Recessed downlights | TRIXY

Type of protection: IP 20

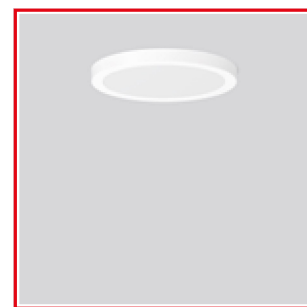
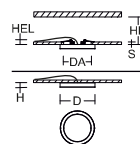
Protection class: II


Ceiling thickness S: 5-25 mm

Impact protection: IK03

Housing made of UV-resistant polycarbonate. Perfect heat management with an aluminium heat sink, Diffuser: plastic (PMMA), transparent, with opal reflector foil. Lateral light emission (RZB SIDELITE® technology) for homogeneous light distribution. Suitable for recessed mounting in ceilings and surface mounting on ceilings and walls. Driver integrated. Suitable for through-wiring.

Available colour: 2 = white

MultiColour: Colour temperature adjustable via switching element. Factory setting is 4000 K.**MultiLumen:** Luminous flux adjustable in 3 steps. Factory setting is the highest luminous flux.**MultiCutOut:** With adjustable spring clamps, different ceiling cut-outs can be individually adhered to.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	UGR	Lighting control
Surface and recessed mounted downlights								
Ceiling cut out DA adjustable from 65 mm to 205 mm								
minimum mechanical height installed HEL 25 mm								
901717.002 .Q	D 235, H 22, HE 82	830, 840	990...1650	9...15	122	113	25,2...26,9	on/off
Ceiling cut out DA adjustable from 120 mm to 260 mm								
minimum mechanical height installed HEL 25 mm								
901718.002	D 300, H 25, HE 82	830, 840	1600...2600	14...22	125	113	24,8...26,5	on/off
MultiLumen/MultiColour: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com .								

Comparison
LED vs. conventional lamps**LED 9 W ≈**

2 x 13 W TC-D (38 W Psys)

LED 14 / 15 W ≈

2 x 18 W TC-D (52 W Psys)

LED 22 W ≈

2 x 26 W TC-D (68 W Psys)

Surface mounted downlights, Recessed downlights | TRIXY

Type of protection: IP 20

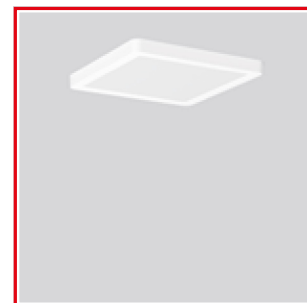
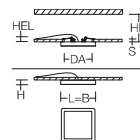
Protection class: II


Ceiling thickness S: 5-25 mm

Impact protection: IK02

Housing made of UV-resistant polycarbonate. Perfect heat management with an aluminium heat sink, Diffuser: plastic (PMMA), transparent, with opal reflector foil. Lateral light emission (RZB SIDELITE® technology) for homogeneous light distribution. Suitable for recessed mounting in ceilings and surface mounting on ceilings and walls. Driver integrated. Suitable for through-wiring.

Available colour: 2 = white

MultiColour: Colour temperature adjustable via switching element. Factory setting is 4000 K.**MultiLumen:** Luminous flux adjustable in 3 steps. Factory setting is the highest luminous flux.**MultiCutOut:** With adjustable spring clamps, different ceiling cut-outs can be individually adhered to.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	UGR	Lighting control
Surface and recessed mounted downlights								
Ceiling cut out DA adjustable from 65 mm to 205 mm								
minimum mechanical height installed HEL 25 mm								
901722.002	L 235, B 235, H 22, HE 82	830, 840	990...1700	9...15	117	114	24,3...26,2	on/off
Ceiling cut out DA adjustable from 120 mm to 260 mm								
minimum mechanical height installed HEL 25 mm								
901723.002	L 300, B 300, H 25, HE 82	830, 840	1550...2550	14...22	118	114	23,9...25,6	on/off
MultiLumen/MultiColour: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com .								

Comparison
LED vs. conventional lamps**LED 9 W ≈**

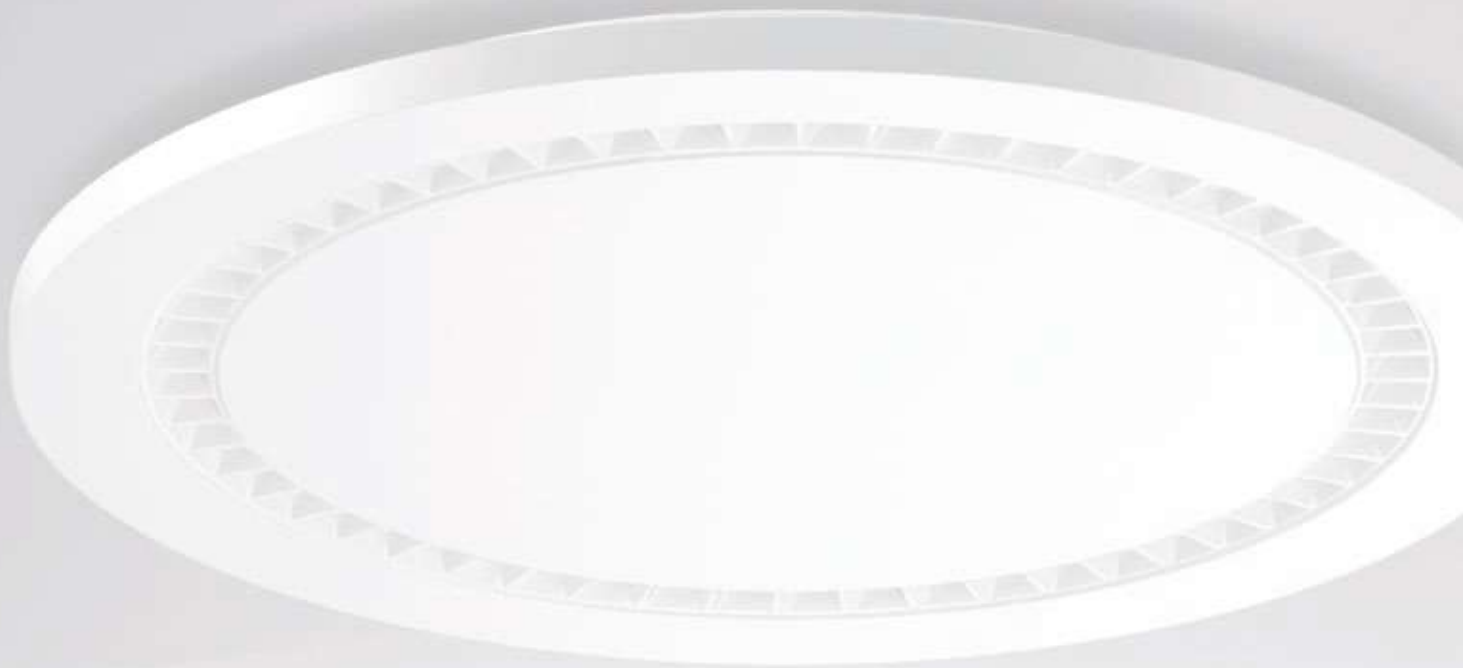
2 x 13 W TC-D (38 W Psys)

LED 14 / 15 W ≈

2 x 18 W TC-D (52 W Psys)

LED 22 W ≈

2 x 26 W TC-D (68 W Psys)



IP40

HEMIS®

Ceiling luminaires

ARCHITECTURE

- Glare-free LED ceiling luminaire with optical lens system.
- Compact slim design, total height less than 33 mm.
- Up to 70% energy savings compared to conventional configurations.

LIGHTING DESIGN

- Thanks to $UGR < 22$ ideal for corridors, stairways, shops, schools, meeting rooms, rest areas.
- **MultiLumen:** 2 steps adjustable luminous flux.
- Efficiency up to 145 lm/W.
- LED rated life 40000 h (L80/B10).

INSTALLATION

- Easy installation with Plug & Play plug connection.
- Big terminal block; ideal for through-wiring.
- Sealing strip on the back of the luminaire connects seamlessly with the ceiling.

Ceiling luminaires | HEMIS round

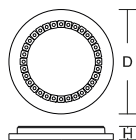
Type of protection: **IP 40**

Protection class: I

Impact protection: IK06

Base: metal, powder-coated, with bayonet fixing. Housing: plastic (polycarbonate).
Diffuser with optic lenses. Housing and diffuser are screwed together.

Available colour: 2 = white

MultiLumen: 2 steps adjustable luminous flux. Factory setting is the highest luminous flux.

Ceiling luminaires

Diameter D 300 mm

312185.002.2 D 300, H 33

830

1200/1850

10/16

120

17,6...19,1

on/off

312185.002.3 D 300, H 33

840

1250/1950

10/16

125

17,9...19,4

on/off

Diameter D 400 mm

312186.002.2 D 400, H 33

830

2750/3200

22/25

128

19,7...20,2

on/off

312186.002.3 D 400, H 33

840

2850/3350

22/25

134

19,8...20,4

on/off

Price Category 11

Comparison
LED vs. conventional lamps

LED 10 W ≈

2 x 13 W TC-D (38 W Psys)

LED 16 W ≈

2 x 18 W TC-D (52 W Psys)

LED 22 W ≈

3 x 18 W TC-D (78 W Psys)

2 x 26 W TC-D (68 W Psys)

LED 25 W ≈

3 x 26 W TC-D (102 W Psys)

Ceiling luminaires | HEMIS square

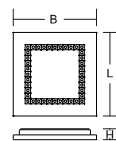
Type of protection: **IP 40**

Protection class: I

Impact protection: IK06

Base: metal, powder-coated, with bayonet fixing. Housing: plastic (polycarbonate).
Diffuser with optic lenses. Housing and diffuser are screwed together.

Available colour: 2 = white

MultiLumen: 2 steps adjustable luminous flux. Factory setting is the highest luminous flux.

Ceiling luminaires

Length L 300 x Width B 300 mm

312188.002.2 L 300, B 300, H 33

830

1400/2200

10/16

140

18,3...19,9

on/off

312188.002.3 L 300, B 300, H 33

840

1450/2300

10/16

145

18,4...20

on/off

Length L 400 x Width B 400 mm

312189.002.2 L 400, B 400, H 33

830

2800/3250

22/25

130

19,2...19,7

on/off

312189.002.3 L 400, B 400, H 33

840

2900/3400

22/25

136

19,3...19,8

on/off

Price Category 11

Comparison
LED vs. conventional lamps

LED 10 W ≈

2 x 13 W TC-D (38 W Psys)

LED 16 W ≈

2 x 18 W TC-D (52 W Psys)

LED 22 W ≈

3 x 18 W TC-D (78 W Psys)

2 x 26 W TC-D (68 W Psys)

LED 25 W ≈

3 x 26 W TC-D (102 W Psys)



The application image shows:
GOLAS



LEVIDO SWING
412-415



DEECOS R
416-423



MAGCARD0
416-417 | 424-429



RONDOS
416-417 | 430-439



GOLAS
416-417 | 440-451



TX-MOVE
416-417 | 452-455



DALI



IP40

LEVIDO® SWING

Recessed projectors

Architecture

- **Design-oriented:** Decorative recessed projector with dainty dimensions.
- **Versatile:** 2 designs, 2 beam angles, 2 colours.
- **Protected:** Safety glass cover to protect the LED.

LIGHTING DESIGN

- **Efficient:** Alternative for low-voltage 35 W and 50 W.
- **Standard:** MultiLumen - 2-step adjustable luminous flux.
- **Advantageous:** LED rated life 50000 h (L90/B50).
- **Homogenous:** Opal diffuser (PMMA) for uniform, homogenous light distribution are available as accessory items.

INSTALLATION

- **Easy installation:** Converter in separate box. Very simple installation with plug-in locking system.
- **Flexible:** Thanks to pivot range $\pm 25^\circ$ flexible directing of light.
- **Straightforward:** DALI variants suitable for through wiring as standard.



Further luminaires of this series, see:
Indoor lighting | Recessed downlights

Recessed projectors | LEVIDO SWING round

Type of protection: IP 20, IP 40 on room side

Protection class: II

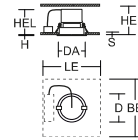
Ceiling thickness S: 1-20 mm

Impact protection: IK06

Die-cast aluminium cover, powder-coated, Heat sink die-cast aluminium. Can be swivelled by $\pm 25^\circ$. Reflector: aluminium, highly polished anodised finish. With safety glass. Ceiling installation with spring system. Including separate LED converter with connecting cable 250 mm. DALI variants suitable for through wiring as standard. DALI converter is compatible with DC.

Available colours: 2 = white, 3 = black

MultiLumen: 2 steps adjustable luminous flux. Factory setting is the highest luminous flux.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control
Recessed projectors - Colour white							Price Category 21

Ceiling cut out DA 78 mm

Medium beam light distribution

901835.002.2	D 91, H 2, HE 80	827	650/1000	7,5/12	87	23	Phase-cut
901835.002.2.76	D 91, H 2, HE 80	827	650/1000	7,5/12	87	23	DALI
901835.002	D 91, H 2, HE 80	830	710/1100	7,5/12	95	23	Phase-cut
901835.002.76	D 91, H 2, HE 80	830	710/1100	7,5/12	95	23	DALI
901835.002.1	D 91, H 2, HE 80	840	710/1100	7,5/12	95	23	Phase-cut
901835.002.1.76	D 91, H 2, HE 80	840	710/1100	7,5/12	95	23	DALI

Wide beam light distribution

901836.002.2	D 91, H 2, HE 80	827	670/1050	7,5/12	89	54	Phase-cut
901836.002.2.76	D 91, H 2, HE 80	827	670/1050	7,5/12	89	54	DALI
901836.002	D 91, H 2, HE 80	830	730/1150	7,5/12	97	54	Phase-cut
901836.002.76	D 91, H 2, HE 80	830	730/1150	7,5/12	97	54	DALI
901836.002.1	D 91, H 2, HE 80	840	750/1150	7,5/12	100	54	Phase-cut
901836.002.1.76	D 91, H 2, HE 80	840	750/1150	7,5/12	100	54	DALI

Recessed projectors - Colour black

Price Category 21

Ceiling cut out DA 78 mm

Medium beam light distribution

901835.003.2	D 91, H 2, HE 80	827	600/930	7,5/12	80	23	Phase-cut
901835.003.2.76	D 91, H 2, HE 80	827	600/930	7,5/12	80	23	DALI
901835.003	D 91, H 2, HE 80	830	650/1000	7,5/12	87	23	Phase-cut
901835.003.76	D 91, H 2, HE 80	830	650/1000	7,5/12	87	23	DALI
901835.003.1	D 91, H 2, HE 80	840	670/1050	7,5/12	89	23	Phase-cut
901835.003.1.76	D 91, H 2, HE 80	840	670/1050	7,5/12	89	23	DALI

Wide beam light distribution

901836.003.2	D 91, H 2, HE 80	827	640/990	7,5/12	85	54	Phase-cut
901836.003.2.76	D 91, H 2, HE 80	827	640/990	7,5/12	85	54	DALI
901836.003	D 91, H 2, HE 80	830	690/1050	7,5/12	92	54	Phase-cut
901836.003.76	D 91, H 2, HE 80	830	690/1050	7,5/12	92	54	DALI
901836.003.1	D 91, H 2, HE 80	840	710/1100	7,5/12	95	54	Phase-cut
901836.003.1.76	D 91, H 2, HE 80	840	710/1100	7,5/12	95	54	DALI

Comparison LED vs. conventional lamps

LED 7,5 W \approx

1 x 35 W QR-CB (39 W Psys)

LED 12 W \approx

1 x 50 W QR51 (55 W Psys)



Cover: plastic, opal

Price Category 21

982184.002	D 45, H 2	Opal plastic cover (PMMA); can be fitted without tools.
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Compensating rings available for various ceiling cut outs!





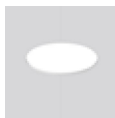
Comparison LED vs. conventional lamps

LED 7,5 W ≈

1 x 35 W QR-CB (39 W Psys)

LED 12 W ≈

1 x 50 W QR51 (55 W Psys)



Recessed projectors | LEVIDO SWING square

Type of protection: IP 20, IP 40 on room side

Protection class: II

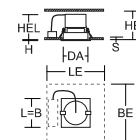
Ceiling thickness S: 1-20 mm

Impact protection: IK06

Die-cast aluminium cover, powder-coated, Heat sink die-cast aluminium. Can be swivelled by $\pm 25^\circ$. Reflector: aluminium, highly polished anodised finish, With safety glass. Ceiling installation with spring system. Including separate LED converter with connecting cable 250 mm. DALI variants suitable for through wiring as standard. DALI converter is compatible with DC.

Available colours: 2 = white, 3 = black

MultiLumen: 2 steps adjustable luminous flux. Factory setting is the highest luminous flux.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Recessed projectors - Colour white							Price Category 21
Ceiling cut out DA 82 mm							
Medium beam light distribution							
901837.002.2	L 98, B 98, H 2, HE 80	827	650/1000	7,5/12	87	23	Phase-cut
901837.002.2.76	L 98, B 98, H 2, HE 80	827	650/1000	7,5/12	87	23	DALI
901837.002	L 98, B 98, H 2, HE 80	830	710/1100	7,5/12	95	23	Phase-cut
901837.002.76	L 98, B 98, H 2, HE 80	830	710/1100	7,5/12	95	23	DALI
901837.002.1	L 98, B 98, H 2, HE 80	840	710/1100	7,5/12	95	23	Phase-cut
901837.002.1.76	L 98, B 98, H 2, HE 80	840	710/1100	7,5/12	95	23	DALI
Wide beam light distribution							
901838.002.2	L 98, B 98, H 2, HE 80	827	670/1050	7,5/12	89	54	Phase-cut
901838.002.2.76	L 98, B 98, H 2, HE 80	827	670/1050	7,5/12	89	54	DALI
901838.002	L 98, B 98, H 2, HE 80	830	730/1150	7,5/12	97	54	Phase-cut
901838.002.76	L 98, B 98, H 2, HE 80	830	730/1150	7,5/12	97	54	DALI
901838.002.1	L 98, B 98, H 2, HE 80	840	750/1150	7,5/12	100	54	Phase-cut
901838.002.1.76	L 98, B 98, H 2, HE 80	840	750/1150	7,5/12	100	54	DALI
Recessed projectors - Colour black							Price Category 21
Ceiling cut out DA 82 mm							
Medium beam light distribution							
901837.003.2	L 98, B 98, H 2, HE 80	827	600/930	7,5/12	80	23	Phase-cut
901837.003.2.76	L 98, B 98, H 2, HE 80	827	600/930	7,5/12	80	23	DALI
901837.003	L 98, B 98, H 2, HE 80	830	650/1000	7,5/12	87	23	Phase-cut
901837.003.76	L 98, B 98, H 2, HE 80	830	650/1000	7,5/12	87	23	DALI
901837.003.1	L 98, B 98, H 2, HE 80	840	670/1050	7,5/12	89	23	Phase-cut
901837.003.1.76	L 98, B 98, H 2, HE 80	840	670/1050	7,5/12	89	23	DALI
Wide beam light distribution							
901838.003.2	L 98, B 98, H 2, HE 80	827	640/990	7,5/12	85	54	Phase-cut
901838.003.2.76	L 98, B 98, H 2, HE 80	827	640/990	7,5/12	85	54	DALI
901838.003	L 98, B 98, H 2, HE 80	830	690/1050	7,5/12	92	54	Phase-cut
901838.003.76	L 98, B 98, H 2, HE 80	830	690/1050	7,5/12	92	54	DALI
901838.003.1	L 98, B 98, H 2, HE 80	840	710/1100	7,5/12	95	54	Phase-cut
901838.003.1.76	L 98, B 98, H 2, HE 80	840	710/1100	7,5/12	95	54	DALI

Cover: plastic, opal

982184.002 D 45, H 2 Opal plastic cover (PMMA); can be fitted without tools.

Price Category 21



Compensating rings
available for various
ceiling cut outs!



Exchangeable-Optical-System

Everything at a glance

Depending on the requirements, the Exchangeable-Optical-System allows you to choose between the reflector/lens or change/replace it without tools later on.

MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone. In addition, opal decorative glasses are available as accessories for a diffuse spatial appearance.

- 20 different housings
- 5 different types of luminaires (pendant spotlight, recessed downlight, surface-mounted downlight, recessed spotlight, surface-mounted spotlights)
- 3 sizes (micro, mini and maxi)
- 2 optical systems (reflector and lens)
- 7 different light colours (927, 930, 935, 940, fresh meat, meat +, bakery)
- 4 different beam angles with reflector
- 5 different beam angles with lens
- Additional Superspot versions
- Replaceable without tools





Environmentally friendly and resource-saving due to replaceable components.



Thermo-resistant plastic ring black for lateral glare control or optional white.



Additional superspot version with lens or reflector.



superspot

Optical system reflector MIRO-SILVER® for excellent efficiency.



spot



medium



flood



wide flood



extra wide flood

Optic system lens polycarbonate for best homogeneity of the light cone.



spot



medium



flood



wide flood



extra wide flood



korridor oval

7 light colours



927



930



935



940



meat +



fresh meat



bakery

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



DEECOS R

Recessed projectors

ARCHITECTURE

- **Design-oriented:** Cylindrical shape with no visible cooling fins.
- **Variable:** MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone.
- **Long service life:** Housing made of top quality die-cast aluminium.
- **Interchangeable:** 8 interchangeable lenses with different beam angles.
- **Individual:** Additional Superspot versions.
- **Clever:** Inner cover prevents view into the false ceiling.



Further luminaires of this series, see:

Indoor lighting | Pendant luminaires

Indoor lighting | Surface mounted projectors

LIGHTING DESIGN

- **Standard:** Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality.
- **Anti-glare:** Black plastic ring and recessed LED to prevent glare from the side.
- **Versatile:** 4 different light colors with CRI >90 available as standard.
- **True colours:** CRI >90 for the most realistic possible perception of colours of surroundings, objects and people.
- **Advantageous:** LED rated life 50000 h (L90/B10).
- **Optimum:** Colour tolerance within 2-steps MacAdam (2 SDCM).

INSTALLATION

- **Flexible:** Can be extended and retracted so that it is flush with the ceiling, turns by 356° and swivels by 90° for maximum flexibility in adjustment.
- **Easy installation:** Converter in separate box. Very simple installation with plug-in locking system.
- **Straightforward:** Suitable for through-wiring with separately available accessories.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.
- **Extensive:** The following accessories can be mounted without use of tools: interchangeable lenses, decorative glasses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring.



© Unius Linimer

The application image shows:
DEECOS R



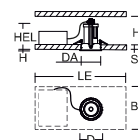
Recessed projectors | DEECOS R - Optic reflector

Type of protection: IP 20
Protection class: II
Ceiling thickness S: 1-20 mm
Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°. Can be swivelled flush with the ceiling. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With MIRO-SILVER® reflector. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 20 W ≈
1 x 35 W HIT (43 W Psys)

LED 29 W ≈
1 x 50 W HIT (56 W Psys)



Recessed projectors - Reflector spot

Ceiling cut out DA 133 mm

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	Price Category 21
911495.00X	D 143, H 3, HE 210	930	2450	20	123	18	on/off
911495.00X.76	D 143, H 3, HE 210	930	2450	20	123	18	DALI
911495.00X.1	D 143, H 3, HE 210	940	2550	20	128	18	on/off
911495.00X.1.76	D 143, H 3, HE 210	940	2550	20	128	18	DALI
911503.00X	D 143, H 3, HE 210	930	3500	29	121	18	on/off
911503.00X.76	D 143, H 3, HE 210	930	3500	29	121	18	DALI
911503.00X.1	D 143, H 3, HE 210	940	3550	29	122	18	on/off
911503.00X.1.76	D 143, H 3, HE 210	940	3550	29	122	18	DALI



Recessed projectors - Reflector medium

Ceiling cut out DA 133 mm

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	Price Category 21
911496.00X	D 143, H 3, HE 210	930	2400	20	120	31	on/off
911496.00X.76	D 143, H 3, HE 210	930	2400	20	120	31	DALI
911496.00X.1	D 143, H 3, HE 210	940	2450	20	123	31	on/off
911496.00X.1.76	D 143, H 3, HE 210	940	2450	20	123	31	DALI
911504.00X	D 143, H 3, HE 210	930	3350	29	116	31	on/off
911504.00X.76	D 143, H 3, HE 210	930	3350	29	116	31	DALI
911504.00X.1	D 143, H 3, HE 210	940	3500	29	121	31	on/off
911504.00X.1.76	D 143, H 3, HE 210	940	3500	29	121	31	DALI



Recessed projectors - Reflector wide flood

Ceiling cut out DA 133 mm

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	Price Category 21
911497.00X	D 143, H 3, HE 210	930	2450	20	123	60	on/off
911497.00X.76	D 143, H 3, HE 210	930	2450	20	123	60	DALI
911497.00X.1	D 143, H 3, HE 210	940	2550	20	128	60	on/off
911497.00X.1.76	D 143, H 3, HE 210	940	2550	20	128	60	DALI
911505.00X	D 143, H 3, HE 210	930	3500	29	121	60	on/off
911505.00X.76	D 143, H 3, HE 210	930	3500	29	121	60	DALI
911505.00X.1	D 143, H 3, HE 210	940	3650	29	126	60	on/off
911505.00X.1.76	D 143, H 3, HE 210	940	3650	29	126	60	DALI



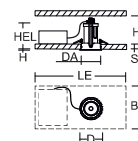
Recessed projectors | DEECOS R - Oval corridor optic lens

Type of protection: IP 20
Protection class: II
Ceiling thickness S: 1-20 mm
Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°. Can be swivelled flush with the ceiling. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With optical assembly polycarbonate lens. Oval light distribution for corridor. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 20 W ≈
1 x 35 W HIT (43 W Psys)

LED 29 W ≈
1 x 50 W HIT (56 W Psys)



Recessed projectors - Oval corridor lens

Ceiling cut out DA 133 mm

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	Price Category 21
911502.00X	D 143, H 3, HE 210	930	1850	20	93	40/28	on/off
911502.00X.76	D 143, H 3, HE 210	930	1850	20	93	40/28	DALI
911502.00X.1	D 143, H 3, HE 210	940	1950	20	98	40/28	on/off
911502.00X.1.76	D 143, H 3, HE 210	940	1950	20	98	40/28	DALI
911510.00X	D 143, H 3, HE 210	930	2650	29	91	40/28	on/off
911510.00X.76	D 143, H 3, HE 210	930	2650	29	91	40/28	DALI
911510.00X.1	D 143, H 3, HE 210	940	2750	29	95	40/28	on/off
911510.00X.1.76	D 143, H 3, HE 210	940	2750	29	95	40/28	DALI

Recessed projectors | DEECOS R - Optic lens

Type of protection: IP 20

Protection class: II

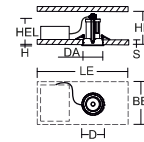
Ceiling thickness S: 1-20 mm


Impact protection: IK06

Housing: die-cast aluminium, powder-coated, Rotation range: 356°. Swivel range: 90°. Can be swivelled flush with the ceiling, Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With optical assembly polycarbonate lens. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	Lighting control
Recessed projectors - Spot lens							
Ceiling cut out DA 133 mm							
911498.00X	D 143, H 3, HE 210	930	2150	20	108	20	on/off
911498.00X.76	D 143, H 3, HE 210	930	2150	20	108	20	DALI
911498.00X.1	D 143, H 3, HE 210	940	2250	20	113	20	on/off
911498.00X.1.76	D 143, H 3, HE 210	940	2250	20	113	20	DALI
911506.00X	D 143, H 3, HE 210	930	3050	29	105	20	on/off
911506.00X.76	D 143, H 3, HE 210	930	3050	29	105	20	DALI
911506.00X.1	D 143, H 3, HE 210	940	3200	29	110	20	on/off
911506.00X.1.76	D 143, H 3, HE 210	940	3200	29	110	20	DALI

Recessed projectors - Medium lens							
Ceiling cut out DA 133 mm							
911499.00X	D 143, H 3, HE 210	930	2050	20	103	31	on/off
911499.00X.76	D 143, H 3, HE 210	930	2050	20	103	31	DALI
911499.00X.1	D 143, H 3, HE 210	940	2100	20	105	31	on/off
911499.00X.1.76	D 143, H 3, HE 210	940	2100	20	105	31	DALI
911507.00X	D 143, H 3, HE 210	930	2900	29	100	31	on/off
911507.00X.76	D 143, H 3, HE 210	930	2900	29	100	31	DALI
911507.00X.1	D 143, H 3, HE 210	940	3050	29	105	31	on/off
911507.00X.1.76	D 143, H 3, HE 210	940	3050	29	105	31	DALI

Recessed projectors - Flood lens							
Ceiling cut out DA 133 mm							
911500.00X	D 143, H 3, HE 210	930	1900	20	95	44	on/off
911500.00X.76	D 143, H 3, HE 210	930	1900	20	95	44	DALI
911500.00X.1	D 143, H 3, HE 210	940	2000	20	100	44	on/off
911500.00X.1.76	D 143, H 3, HE 210	940	2000	20	100	44	DALI
911508.00X	D 143, H 3, HE 210	930	2750	29	95	44	on/off
911508.00X.76	D 143, H 3, HE 210	930	2750	29	95	44	DALI
911508.00X.1	D 143, H 3, HE 210	940	2850	29	98	44	on/off
911508.00X.1.76	D 143, H 3, HE 210	940	2850	29	98	44	DALI

Recessed projectors - Extra wide flood lens							
Ceiling cut out DA 133 mm							
911501.00X	D 143, H 3, HE 210	930	2200	20	110	72	on/off
911501.00X.76	D 143, H 3, HE 210	930	2200	20	110	72	DALI
911501.00X.1	D 143, H 3, HE 210	940	2300	20	115	72	on/off
911501.00X.1.76	D 143, H 3, HE 210	940	2300	20	115	72	DALI
911509.00X	D 143, H 3, HE 210	930	3100	29	107	72	on/off
911509.00X.76	D 143, H 3, HE 210	930	3100	29	107	72	DALI
911509.00X.1	D 143, H 3, HE 210	940	3250	29	112	72	on/off
911509.00X.1.76	D 143, H 3, HE 210	940	3250	29	112	72	DALI



Accessories: Page 423



Recessed projectors | DEECOS R - Superspot optic reflector

Type of protection: IP 20

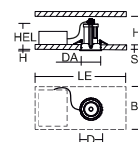
Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°. Can be swivelled flush with the ceiling. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With MIRO-SILVER® reflector. Superspot version with small spot LED. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	Price Category 21
Recessed projectors - Reflector superspot							
Ceiling cut out DA 133 mm							
911493.00X	D 143, H 3, HE 210	930	2150	22	98	13	on/off
911493.00X.76	D 143, H 3, HE 210	930	2150	22	98	13	DALI
911493.00X.1	D 143, H 3, HE 210	940	2350	22	107	13	on/off
911493.00X.1.76	D 143, H 3, HE 210	940	2350	22	107	13	DALI

Comparison LED vs. conventional lamps

LED 22 W ≈
1 x 35 W HIT (43 W Psys)



Recessed projectors | DEECOS R - Superspot optic lens

Type of protection: IP 20

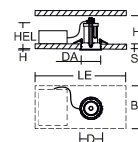
Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°. Can be swivelled flush with the ceiling. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With optical assembly polycarbonate lens. Superspot version with small spot LED. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	Price Category 21
Recessed projectors - Superspot lens							
Ceiling cut out DA 133 mm							
911494.00X	D 143, H 3, HE 210	930	1900	22	86	15	on/off
911494.00X.76	D 143, H 3, HE 210	930	1900	22	86	15	DALI
911494.00X.1	D 143, H 3, HE 210	940	2100	22	95	15	on/off
911494.00X.1.76	D 143, H 3, HE 210	940	2100	22	95	15	DALI

Comparison LED vs. conventional lamps

LED 22 W ≈
1 x 35 W HIT (43 W Psys)



Accessories | DEECOS R



Diffuser			Price Category 21
982370.000	D 74, H 3	Safety glass, clear.	
982370.010	D 74, H 3	Safety glass, satin finish.	



Decorative glasses			Price Category 21
982647.002	D 87, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.	
982648.002	D 87, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.	



Anti-glare honeycomb louvre			Price Category 21
982371.003	D 74, H 3	Aluminium, anodised matt black.	



Interchangeable plastic rings			Price Category 21
982419.002	D 82, H 20	White plastic ring for reflector.	
982421.002	D 82, H 31	White plastic ring for lens.	



Interchangeable optics			Price Category 21
982368.003	D 82, H 55	Reflector spot, narrow beam	
982368.013	D 82, H 55	Reflector medium, medium beam	
982368.023	D 82, H 55	Reflector flood, wide beam	
982368.033	D 82, H 55	Reflector wide flood, very wide beam	
982369.003	D 82, H 55	Spot lens, narrow beam	
982369.013	D 82, H 55	Medium lens, medium beam	
982369.023	D 82, H 55	Flood lens, wide beam	
982369.033	D 82, H 55	Extra wide flood lens, extremely wide beam	
982369.043	D 82, H 55	Lens with oval light distribution for corridor	



Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box			Price Category 21
982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm ² or 3 x 2.5 mm ² possible.	



Compensating rings
available for various
ceiling cut outs!



superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



MAGCARDO

Recessed projectors

ARCHITECTURE

- **Modular:** Flexible combination of luminaire head and recessed mounting frame.
- **Variable:** MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone.
- **Long service life:** Housing made of top quality die-cast aluminium.
- **Interchangeable:** 8 interchangeable lenses with different beam angles.
- **Clever:** Inner cover prevents view into the false ceiling.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.

LIGHTING DESIGN

- **Standard:** Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality.
- **Anti-glare:** Black plastic ring and recessed LED to prevent glare from the side.
- **Versatile:** 7 different light colors with CRI >90 and special Food-LEDs available as standard.
- **True colours:** CRI >90 for the most realistic possible perception of colours of surroundings, objects and people.
- **Advantageous:** LED rated life 50000 h (L90/B10).
- **Optimum:** Colour tolerance within 2-steps MacAdam (2 SDCM).

INSTALLATION

- **Straightforward:** Magnetic click locking mechanism for quick and convenient installation without tools: insert the recessed frame (1, 2 or 3-lamp) with clamp fastener (no tools required), push the luminaire head with the base plate into the recessed frame and fix magnetically.
- **Flexible:** Flexible adjustment, can be turned by 356° and swivelled by ± 35°.
- **Easy installation:** Converter in separate box. Very simple installation with plug-in locking system.
- **Expandable:** Suitable for through-wiring with separately available accessories.
- **Extensive:** The following accessories can be mounted without use of tools: interchangeable lenses, decorative glasses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring.

Recessed projectors | MAGCARDO maxi - Optic reflector

Type of protection: IP 20

Protection class: II

Ceiling thickness S: 6-30 mm

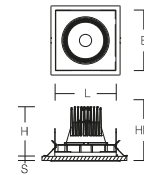
Impact protection: IK03

Luminaire top: die-cast aluminium, powder-coated. Recessed mounting frame: sheet steel, powder-coated, Rotation range 356° and swivel range ± 35°, Heat resistant plastic ring black, With MIRO-SILVER® reflector. Including separate LED converter with connecting cable 600 mm.

Modular design: recessed mounting frame must be ordered separately!

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control
Recessed projectors - Reflector spot							
722186.00X	L 172, B 167, H 137, HE 155	930	3050	25	122	12	on/off
722186.00X.76	L 172, B 167, H 137, HE 155	930	3050	25	122	12	DALI
722186.00X.1	L 172, B 167, H 137, HE 155	940	3200	25	128	12	on/off
722186.00X.1.76	L 172, B 167, H 137, HE 155	940	3200	25	128	12	DALI
722193.00X	L 172, B 167, H 137, HE 155	930	4000	35	114	12	on/off
722193.00X.76	L 172, B 167, H 137, HE 155	930	4000	35	114	12	DALI
722193.00X.1	L 172, B 167, H 137, HE 155	940	4200	35	120	12	on/off
722193.00X.1.76	L 172, B 167, H 137, HE 155	940	4200	35	120	12	DALI

Recessed projectors - Reflector medium							
722187.00X	L 172, B 167, H 137, HE 155	930	3150	25	126	21	on/off
722187.00X.76	L 172, B 167, H 137, HE 155	930	3150	25	126	21	DALI
722187.00X.1	L 172, B 167, H 137, HE 155	940	3300	25	132	21	on/off
722187.00X.1.76	L 172, B 167, H 137, HE 155	940	3300	25	132	21	DALI
722194.00X	L 172, B 167, H 137, HE 155	930	4200	35	120	21	on/off
722194.00X.76	L 172, B 167, H 137, HE 155	930	4200	35	120	21	DALI
722194.00X.1	L 172, B 167, H 137, HE 155	940	4300	35	123	21	on/off
722194.00X.1.76	L 172, B 167, H 137, HE 155	940	4300	35	123	21	DALI

Recessed projectors - Reflector flood							
722188.00X	L 172, B 167, H 137, HE 155	930	3150	25	126	33	on/off
722188.00X.76	L 172, B 167, H 137, HE 155	930	3150	25	126	33	DALI
722188.00X.1	L 172, B 167, H 137, HE 155	940	3350	25	134	33	on/off
722188.00X.1.76	L 172, B 167, H 137, HE 155	940	3350	25	134	33	DALI
722195.00X	L 172, B 167, H 137, HE 155	930	4200	35	120	33	on/off
722195.00X.76	L 172, B 167, H 137, HE 155	930	4200	35	120	33	DALI
722195.00X.1	L 172, B 167, H 137, HE 155	940	4350	35	124	33	on/off
722195.00X.1.76	L 172, B 167, H 137, HE 155	940	4350	35	124	33	DALI

Recessed projectors - Reflector wide flood							
722189.00X	L 172, B 167, H 137, HE 155	930	3050	25	122	65	on/off
722189.00X.76	L 172, B 167, H 137, HE 155	930	3050	25	122	65	DALI
722189.00X.1	L 172, B 167, H 137, HE 155	940	3200	25	128	65	on/off
722189.00X.1.76	L 172, B 167, H 137, HE 155	940	3200	25	128	65	DALI
722196.00X	L 172, B 167, H 137, HE 155	930	3950	35	113	65	on/off
722196.00X.76	L 172, B 167, H 137, HE 155	930	3950	35	113	65	DALI
722196.00X.1	L 172, B 167, H 137, HE 155	940	4200	35	120	65	on/off
722196.00X.1.76	L 172, B 167, H 137, HE 155	940	4200	35	120	65	DALI

Modules | Magcardo recessed mounting frame

Recessed mounting frame made of sheet steel, powder-coated. Installation without tools thanks to spring fastening system.

Recessed mounting frame							
982431.00X	L 194, B 194, H 2, HE 75	one lamp, ceiling cut out LA 180 x BA 180 mm					
982432.00X	L 362, B 194, H 2, HE 75	two lamps, ceiling cut out LA 348 x BA 180 mm					
982433.00X	L 530, B 194, H 2, HE 75	three lamps, ceiling cut out LA 516 x BA 180 mm					



Accessories:
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Recessed projectors | MAGCARDO maxi - Optic lens

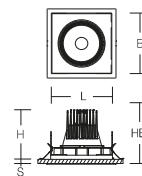
Type of protection: IP 20
Protection class: II
Ceiling thickness S: 6-30 mm
Impact protection: IK03

Luminaire top: die-cast aluminium, powder-coated. Recessed mounting frame: sheet steel, powder-coated. Rotation range 356° and swivel range ± 35°. Heat resistant plastic ring black. With optical assembly polycarbonate lens. Including separate LED converter with connecting cable 600 mm.

Modular design: recessed frame must be ordered separately!

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 25 W ≈
1 x 35 W HIT (43 W Psys)

LED 35 W ≈
1 x 50 W HIT (56 W Psys)

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Recessed projectors - Spot lens							Price Category 21
722190.00X	L 172, B 167, H 137, HE 155	930	2700	25	108	13	on/off
722190.00X.76	L 172, B 167, H 137, HE 155	930	2700	25	108	13	DALI
722190.00X.1	L 172, B 167, H 137, HE 155	940	2800	25	112	13	on/off
722190.00X.1.76	L 172, B 167, H 137, HE 155	940	2800	25	112	13	DALI
722197.00X	L 172, B 167, H 137, HE 155	930	3500	35	100	13	on/off
722197.00X.76	L 172, B 167, H 137, HE 155	930	3500	35	100	13	DALI
722197.00X.1	L 172, B 167, H 137, HE 155	940	3700	35	106	13	on/off
722197.00X.1.76	L 172, B 167, H 137, HE 155	940	3700	35	106	13	DALI
Recessed projectors - Medium lens							Price Category 21
722191.00X	L 172, B 167, H 137, HE 155	930	2600	25	104	31	on/off
722191.00X.76	L 172, B 167, H 137, HE 155	930	2600	25	104	31	DALI
722191.00X.1	L 172, B 167, H 137, HE 155	940	2700	25	108	31	on/off
722191.00X.1.76	L 172, B 167, H 137, HE 155	940	2700	25	108	31	DALI
722198.00X	L 172, B 167, H 137, HE 155	930	3400	35	97	31	on/off
722198.00X.76	L 172, B 167, H 137, HE 155	930	3400	35	97	31	DALI
722198.00X.1	L 172, B 167, H 137, HE 155	940	3550	35	101	31	on/off
722198.00X.1.76	L 172, B 167, H 137, HE 155	940	3550	35	101	31	DALI
Recessed projectors - Flood lens							Price Category 21
722192.00X	L 172, B 167, H 137, HE 155	930	2650	25	106	42	on/off
722192.00X.76	L 172, B 167, H 137, HE 155	930	2650	25	106	42	DALI
722192.00X.1	L 172, B 167, H 137, HE 155	940	2800	25	112	42	on/off
722192.00X.1.76	L 172, B 167, H 137, HE 155	940	2800	25	112	42	DALI
722199.00X	L 172, B 167, H 137, HE 155	930	3450	35	99	42	on/off
722199.00X.76	L 172, B 167, H 137, HE 155	930	3450	35	99	42	DALI
722199.00X.1	L 172, B 167, H 137, HE 155	940	3650	35	104	42	on/off
722199.00X.1.76	L 172, B 167, H 137, HE 155	940	3650	35	104	42	DALI



Recessed mounting frame				Price Category 21
982431.00X	L 194, B 194, H 2, HE 75	one lamp, Ceiling cut out LA 180 x BA 180 mm		
982432.00X	L 362, B 194, H 2, HE 75	two lamps, Ceiling cut out LA 348 x BA 180 mm		
982433.00X	L 530, B 194, H 2, HE 75	three lamps, Ceiling cut out LA 516 x BA 180 mm		



Accessories: Page 429



Recessed projectors | MAGCARDO maxi - Food optic reflector

Type of protection: IP 20

Protection class: II

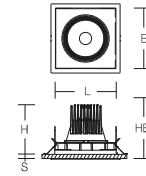
Ceiling thickness S: 6-30 mm

Impact protection: IK03

Luminaire top: die-cast aluminium, powder-coated. Recessed mounting frame: sheet steel, powder-coated, Rotation range 356° and swivel range ± 35°. Heat resistant plastic ring black. With MIRO-SILVER® reflector and special food LED. Including separate LED converter with connecting cable 600 mm.

Modular design: recessed frame must be ordered separately!

Available colours (X): 2 = white, 3 = black, 4 = silver



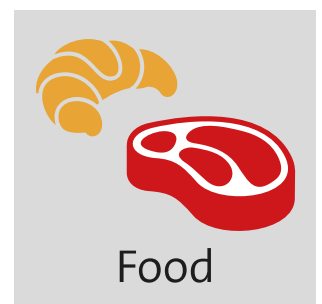
Food LED light colours show food in its best light:

- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control
Recessed projectors - Reflector spot							
722214.00X.2	L 172, B 167, H 137, HE 155	bakery	3300	33	100	17	on/off
722214.00X.2.76	L 172, B 167, H 137, HE 155	bakery	3300	33	100	17	DALI
722200.00X	L 172, B 167, H 137, HE 155	fresh meat	2100	33	64	17	on/off
722200.00X.76	L 172, B 167, H 137, HE 155	fresh meat	2100	33	64	17	DALI
722207.00X	L 172, B 167, H 137, HE 155	meat +	2200	33	67	17	on/off
722207.00X.76	L 172, B 167, H 137, HE 155	meat +	2200	33	67	17	DALI
Recessed projectors - Reflector medium							
722215.00X.2	L 172, B 167, H 137, HE 155	bakery	3400	33	103	23	on/off
722215.00X.2.76	L 172, B 167, H 137, HE 155	bakery	3400	33	103	23	DALI
722201.00X	L 172, B 167, H 137, HE 155	fresh meat	2150	33	65	23	on/off
722201.00X.76	L 172, B 167, H 137, HE 155	fresh meat	2150	33	65	23	DALI
722208.00X	L 172, B 167, H 137, HE 155	meat +	2250	33	68	23	on/off
722208.00X.76	L 172, B 167, H 137, HE 155	meat +	2250	33	68	23	DALI
Recessed projectors - Reflector flood							
722216.00X.2	L 172, B 167, H 137, HE 155	bakery	3450	33	105	33	on/off
722216.00X.2.76	L 172, B 167, H 137, HE 155	bakery	3450	33	105	33	DALI
722202.00X	L 172, B 167, H 137, HE 155	fresh meat	2150	33	65	33	on/off
722202.00X.76	L 172, B 167, H 137, HE 155	fresh meat	2150	33	65	33	DALI
722209.00X	L 172, B 167, H 137, HE 155	meat +	2250	33	68	33	on/off
722209.00X.76	L 172, B 167, H 137, HE 155	meat +	2250	33	68	33	DALI
Recessed projectors - Reflector wide flood							
722217.00X.2	L 172, B 167, H 137, HE 155	bakery	3300	33	100	67	on/off
722217.00X.2.76	L 172, B 167, H 137, HE 155	bakery	3300	33	100	67	DALI
722203.00X	L 172, B 167, H 137, HE 155	fresh meat	2050	33	62	67	on/off
722203.00X.76	L 172, B 167, H 137, HE 155	fresh meat	2050	33	62	67	DALI
722210.00X	L 172, B 167, H 137, HE 155	meat +	2150	33	65	67	on/off
722210.00X.76	L 172, B 167, H 137, HE 155	meat +	2150	33	65	67	DALI

Recessed mounting frame				Price Category 21
982431.00X	L 194, B 194, H 2, HE 75	one lamp, Ceiling cut out LA 180 x BA 180 mm		
982432.00X	L 362, B 194, H 2, HE 75	two lamps, Ceiling cut out LA 348 x BA 180 mm		
982433.00X	L 530, B 194, H 2, HE 75	three lamps, Ceiling cut out LA 516 x BA 180 mm		





Recessed projectors | MAGCARDO maxi - Food optic lens

Type of protection: IP 20

Protection class: II

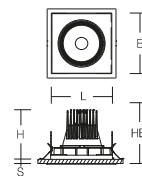
Ceiling thickness S: 6-30 mm

Impact protection: IK03

Luminaire top: die-cast aluminium, powder-coated. Recessed mounting frame: sheet steel, powder-coated. Rotation range 356° and swivel range ± 35°. Heat resistant plastic ring black. With optical assembly polycarbonate lens and special food LED. Including separate LED converter with connecting cable 600 mm.

Modular design: recessed frame must be ordered separately!

Available colours (X): 2 = white, 3 = black, 4 = silver



Food LED light colours show food in its best light:

- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

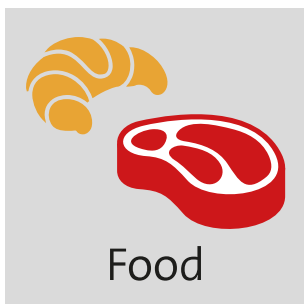
Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control
Recessed projectors - Spot lens							Price Category 21
722218.00X.2	L 172, B 167, H 137, HE 155	bakery	2950	33	89	17	on/off
722218.00X.2.76	L 172, B 167, H 137, HE 155	bakery	2950	33	89	17	DALI
722204.00X	L 172, B 167, H 137, HE 155	fresh meat	1800	33	55	17	on/off
722204.00X.76	L 172, B 167, H 137, HE 155	fresh meat	1800	33	55	17	DALI
722211.00X	L 172, B 167, H 137, HE 155	meat +	1900	33	58	17	on/off
722211.00X.76	L 172, B 167, H 137, HE 155	meat +	1900	33	58	17	DALI
Recessed projectors - Medium lens							Price Category 21
722219.00X.2	L 172, B 167, H 137, HE 155	bakery	2850	33	86	35	on/off
722219.00X.2.76	L 172, B 167, H 137, HE 155	bakery	2850	33	86	35	DALI
722205.00X	L 172, B 167, H 137, HE 155	fresh meat	1750	33	53	35	on/off
722205.00X.76	L 172, B 167, H 137, HE 155	fresh meat	1750	33	53	35	DALI
722212.00X	L 172, B 167, H 137, HE 155	meat +	1850	33	56	35	on/off
722212.00X.76	L 172, B 167, H 137, HE 155	meat +	1850	33	56	35	DALI
Recessed projectors - Flood lens							Price Category 21
722220.00X.2	L 172, B 167, H 137, HE 155	bakery	2900	33	88	44	on/off
722220.00X.2.76	L 172, B 167, H 137, HE 155	bakery	2900	33	88	44	DALI
722206.00X	L 172, B 167, H 137, HE 155	fresh meat	1800	33	55	44	on/off
722206.00X.76	L 172, B 167, H 137, HE 155	fresh meat	1800	33	55	44	DALI
722213.00X	L 172, B 167, H 137, HE 155	meat +	1900	33	58	44	on/off
722213.00X.76	L 172, B 167, H 137, HE 155	meat +	1900	33	58	44	DALI



Recessed mounting frame

Price Category 21

982431.00X	L 194, B 194, H 2, HE 75	one lamp, Ceiling cut out LA 180 x BA 180 mm
982432.00X	L 362, B 194, H 2, HE 75	two lamps, Ceiling cut out LA 348 x BA 180 mm
982433.00X	L 530, B 194, H 2, HE 75	three lamps, Ceiling cut out LA 516 x BA 180 mm



Accessories | MAGCARDO maxi

Diffuser

982374.000	D 111, H 3	Safety glass, clear.
982374.010	D 111, H 3	Safety glass, satin finish.

Price Category 21



Anti-glare honeycomb louvre

982375.003	D 111, H 3	Aluminium, anodised matt black.
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Price Category 21



Interchangeable plastic rings

982420.002	D 118, H 20	White plastic ring for reflector.
982422.002	D 118, H 33	White plastic ring for lens.

Price Category 21



Interchangeable optics

982372.003	D 118, H 83	Reflector spot, narrow beam
982372.013	D 118, H 83	Reflector medium, medium beam
982372.023	D 118, H 83	Reflector flood, wide beam
982372.033	D 118, H 83	Reflector wide flood, very wide beam
982373.003	D 118, H 83	Spot lens, narrow beam
982373.013	D 118, H 83	Medium lens, medium beam
982373.023	D 118, H 83	Flood lens, wide beam

Price Category 21



Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box

982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm ² or 3 x 2.5 mm ² possible.
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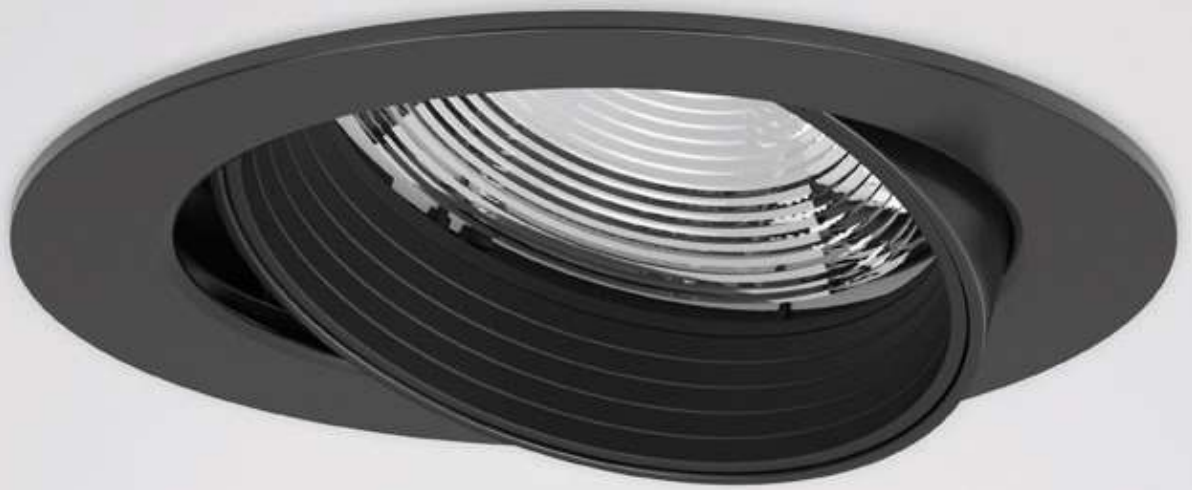
Price Category 21



Compensating rings
available for various
ceiling cut outs!



superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



RONDOS

Recessed projectors

ARCHITECTURE

- **Variable:** MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone.
- **Long service life:** High quality die-cast aluminium housing in two sizes.
- **Interchangeable:** 8 interchangeable lenses with different beam angles.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.

LIGHTING DESIGN

- **Standard:** Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality.
- **Anti-glare:** Black plastic ring and recessed LED to prevent glare from the side.
- **Versatile:** 7 different light colors with CRI >90 and special Food-LEDs available as standard.
- **True colours:** CRI >90 for the most realistic possible perception of colours of surroundings, objects and people.
- **Advantageous:** LED rated life 50000 h (L90/B10).
- **Optimum:** Colour tolerance within 2-steps MacAdam (2 SDCM).

INSTALLATION

- **Easy installation:** Converter in separate box. Very simple installation with plug-in locking system.
- **Flexible:** Flexible adjustment, can be turned by 356° and swivelled by ± 35°.
- **Straightforward:** Suitable for through-wiring with separately available accessories.
- **Extensive:** The following accessories can be mounted without use of tools: interchangeable lenses, decorative glasses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring.





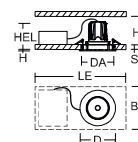
Recessed projectors | RONDOS mini - Optic reflector

Type of protection: IP 20
Protection class: II
Ceiling thickness S: 1-20 mm
Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°; swivel range: ± 35°.
Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.
With MIRO-SILVER® reflector. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 20 W ≈
1 x 35 W HIT (43 W Psys)

LED 29 W ≈
1 x 50 W HIT (56 W Psys)



Recessed projectors - Reflector spot

Price Category 21

Ceiling cut out DA 133 mm

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
911619.00X	D 143, H 3, HE 170	930	2450	20	123	18	on/off
911619.00X.76	D 143, H 3, HE 170	930	2450	20	123	18	DALI
911619.00X.1	D 143, H 3, HE 170	940	2550	20	128	18	on/off
911619.00X.1.76	D 143, H 3, HE 170	940	2550	20	128	18	DALI
911627.00X	D 143, H 3, HE 170	930	3500	29	121	18	on/off
911627.00X.76	D 143, H 3, HE 170	930	3500	29	121	18	DALI
911627.00X.1	D 143, H 3, HE 170	940	3550	29	122	18	on/off
911627.00X.1.76	D 143, H 3, HE 170	940	3550	29	122	18	DALI



Recessed projectors - Reflector medium

Price Category 21

Ceiling cut out DA 133 mm

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
911620.00X	D 143, H 3, HE 170	930	2400	20	120	31	on/off
911620.00X.76	D 143, H 3, HE 170	930	2400	20	120	31	DALI
911620.00X.1	D 143, H 3, HE 170	940	2450	20	123	31	on/off
911620.00X.1.76	D 143, H 3, HE 170	940	2450	20	123	31	DALI
911628.00X	D 143, H 3, HE 170	930	3350	29	116	31	on/off
911628.00X.76	D 143, H 3, HE 170	930	3350	29	116	31	DALI
911628.00X.1	D 143, H 3, HE 170	940	3500	29	121	31	on/off
911628.00X.1.76	D 143, H 3, HE 170	940	3500	29	121	31	DALI



Recessed projectors - Reflector wide flood

Price Category 21

Ceiling cut out DA 133 mm

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
911621.00X	D 143, H 3, HE 170	930	2450	20	123	60	on/off
911621.00X.76	D 143, H 3, HE 170	930	2450	20	123	60	DALI
911621.00X.1	D 143, H 3, HE 170	940	2550	20	128	60	on/off
911621.00X.1.76	D 143, H 3, HE 170	940	2550	20	128	60	DALI
911629.00X	D 143, H 3, HE 170	930	3500	29	121	60	on/off
911629.00X.76	D 143, H 3, HE 170	930	3500	29	121	60	DALI
911629.00X.1	D 143, H 3, HE 170	940	3650	29	126	60	on/off
911629.00X.1.76	D 143, H 3, HE 170	940	3650	29	126	60	DALI

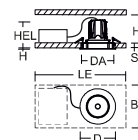


Recessed projectors | RONDOS mini - Oval corridor optic lens

Type of protection: IP 20
Protection class: II
Ceiling thickness S: 1-20 mm
Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°; swivel range: ± 35°.
Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.
With optical assembly polycarbonate lens. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver



Comparison LED vs. conventional lamps

LED 20 W ≈
1 x 20 W HIT (23 W Psys)

LED 29 W ≈
1 x 35 W HIT (43 W Psys)



Recessed projectors - Oval corridor lens

Price Category 21

Ceiling cut out DA 133 mm

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
911626.00X	D 143, H 3, HE 170	930	1850	20	93	40/28	on/off
911626.00X.76	D 143, H 3, HE 170	930	1850	20	93	40/28	DALI
911626.00X.1	D 143, H 3, HE 170	940	1950	20	98	40/28	on/off
911626.00X.1.76	D 143, H 3, HE 170	940	1950	20	98	40/28	DALI
911634.00X	D 143, H 3, HE 170	930	2650	29	91	40/28	on/off
911634.00X.76	D 143, H 3, HE 170	930	2650	29	91	40/28	DALI
911634.00X.1	D 143, H 3, HE 170	940	2750	29	95	40/28	on/off
911634.00X.1.76	D 143, H 3, HE 170	940	2750	29	95	40/28	DALI

Recessed projectors | RONDOS mini - Optic lens

Type of protection: IP 20

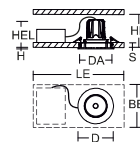
Protection class: II


Ceiling thickness S: 1-20 mm

Impact protection: IK06

Housing: die-cast aluminium, powder-coated, Rotation range: 356°; swivel range: ± 35°.
Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.
With optical assembly polycarbonate lens. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com


Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	Lighting control
Recessed projectors - Spot lens							
Ceiling cut out DA 133 mm							
911622.00X	D 143, H 3, HE 170	930	2150	20	108	20	on/off
911622.00X.76	D 143, H 3, HE 170	930	2150	20	108	20	DALI
911622.00X.1	D 143, H 3, HE 170	940	2250	20	113	20	on/off
911622.00X.1.76	D 143, H 3, HE 170	940	2250	20	113	20	DALI
911630.00X	D 143, H 3, HE 170	930	3050	29	105	20	on/off
911630.00X.76	D 143, H 3, HE 170	930	3050	29	105	20	DALI
911630.00X.1	D 143, H 3, HE 170	940	3200	29	110	20	on/off
911630.00X.1.76	D 143, H 3, HE 170	940	3200	29	110	20	DALI

Recessed projectors - Medium lens							
Ceiling cut out DA 133 mm							
911623.00X	D 143, H 3, HE 170	930	2050	20	103	31	on/off
911623.00X.76	D 143, H 3, HE 170	930	2050	20	103	31	DALI
911623.00X.1	D 143, H 3, HE 170	940	2100	20	105	31	on/off
911623.00X.1.76	D 143, H 3, HE 170	940	2100	20	105	31	DALI
911631.00X	D 143, H 3, HE 170	930	2900	29	100	31	on/off
911631.00X.76	D 143, H 3, HE 170	930	2900	29	100	31	DALI
911631.00X.1	D 143, H 3, HE 170	940	3050	29	105	31	on/off
911631.00X.1.76	D 143, H 3, HE 170	940	3050	29	105	31	DALI

Recessed projectors - Flood lens							
Ceiling cut out DA 133 mm							
911624.00X	D 143, H 3, HE 170	930	1900	20	95	44	on/off
911624.00X.76	D 143, H 3, HE 170	930	1900	20	95	44	DALI
911624.00X.1	D 143, H 3, HE 170	940	2000	20	100	44	on/off
911624.00X.1.76	D 143, H 3, HE 170	940	2000	20	100	44	DALI
911632.00X	D 143, H 3, HE 170	930	2750	29	95	44	on/off
911632.00X.76	D 143, H 3, HE 170	930	2750	29	95	44	DALI
911632.00X.1	D 143, H 3, HE 170	940	2850	29	98	44	on/off
911632.00X.1.76	D 143, H 3, HE 170	940	2850	29	98	44	DALI

Recessed projectors - Extra wide flood lens							
Ceiling cut out DA 133 mm							
911625.00X	D 143, H 3, HE 170	930	2200	20	110	72	on/off
911625.00X.76	D 143, H 3, HE 170	930	2200	20	110	72	DALI
911625.00X.1	D 143, H 3, HE 170	940	2300	20	115	72	on/off
911625.00X.1.76	D 143, H 3, HE 170	940	2300	20	115	72	DALI
911633.00X	D 143, H 3, HE 170	930	3100	29	107	72	on/off
911633.00X.76	D 143, H 3, HE 170	930	3100	29	107	72	DALI
911633.00X.1	D 143, H 3, HE 170	940	3250	29	112	72	on/off
911633.00X.1.76	D 143, H 3, HE 170	940	3250	29	112	72	DALI

Comparison LED vs. conventional lamps
LED 20 W ≈
1 x 35 W HIT (43 W Psys)

LED 29 W ≈
1 x 50 W HIT (56 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



Accessories: Page 438



Recessed projectors | RONDOS maxi - Optic reflector

Type of protection: IP 20

Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK06

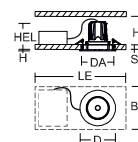
Housing: die-cast aluminium, powder-coated. Rotation range: 356°; swivel range: ± 35°.

Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.

With MIRO-SILVER® reflector. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 25 W ≈

1 x 35 W HIT (43 W Psys)

LED 35 W ≈

1 x 50 W HIT (56 W Psys)



Recessed projectors - Reflector spot

Price Category 21

Ceiling cut out DA 168 mm

911635.00X	D 178, H 3, HE 200	930	3050	25	122	12	on/off
911635.00X.76	D 178, H 3, HE 200	930	3050	25	122	12	DALI
911635.00X.1	D 178, H 3, HE 200	940	3200	25	128	12	on/off
911635.00X.1.76	D 178, H 3, HE 200	940	3200	25	128	12	DALI
911642.00X	D 178, H 3, HE 200	930	4000	35	114	12	on/off
911642.00X.76	D 178, H 3, HE 200	930	4000	35	114	12	DALI
911642.00X.1	D 178, H 3, HE 200	940	4200	35	120	12	on/off
911642.00X.1.76	D 178, H 3, HE 200	940	4200	35	120	12	DALI



Recessed projectors - Reflector medium

Price Category 21

Ceiling cut out DA 168 mm

911636.00X	D 178, H 3, HE 200	930	3150	25	126	21	on/off
911636.00X.76	D 178, H 3, HE 200	930	3150	25	126	21	DALI
911636.00X.1	D 178, H 3, HE 200	940	3300	25	132	21	on/off
911636.00X.1.76	D 178, H 3, HE 200	940	3300	25	132	21	DALI
911643.00X	D 178, H 3, HE 200	930	4200	35	120	21	on/off
911643.00X.76	D 178, H 3, HE 200	930	4200	35	120	21	DALI
911643.00X.1	D 178, H 3, HE 200	940	4300	35	123	21	on/off
911643.00X.1.76	D 178, H 3, HE 200	940	4300	35	123	21	DALI



Recessed projectors - Reflector flood

Price Category 21

Ceiling cut out DA 168 mm

911637.00X	D 178, H 3, HE 200	930	3150	25	126	33	on/off
911637.00X.76	D 178, H 3, HE 200	930	3150	25	126	33	DALI
911637.00X.1	D 178, H 3, HE 200	940	3350	25	134	33	on/off
911637.00X.1.76	D 178, H 3, HE 200	940	3350	25	134	33	DALI
911644.00X	D 178, H 3, HE 200	930	4200	35	120	33	on/off
911644.00X.76	D 178, H 3, HE 200	930	4200	35	120	33	DALI
911644.00X.1	D 178, H 3, HE 200	940	4350	35	124	33	on/off
911644.00X.1.76	D 178, H 3, HE 200	940	4350	35	124	33	DALI



Recessed projectors - Reflector wide flood

Price Category 21

Ceiling cut out DA 168 mm

911638.00X	D 178, H 3, HE 200	930	3050	25	122	65	on/off
911638.00X.76	D 178, H 3, HE 200	930	3050	25	122	65	DALI
911638.00X.1	D 178, H 3, HE 200	940	3200	25	128	65	on/off
911638.00X.1.76	D 178, H 3, HE 200	940	3200	25	128	65	DALI
911645.00X	D 178, H 3, HE 200	930	3950	35	113	65	on/off
911645.00X.76	D 178, H 3, HE 200	930	3950	35	113	65	DALI
911645.00X.1	D 178, H 3, HE 200	940	4200	35	120	65	on/off
911645.00X.1.76	D 178, H 3, HE 200	940	4200	35	120	65	DALI



Accessories: Page 439



Recessed projectors | RONDOS maxi - Optic lens

Type of protection: IP 20

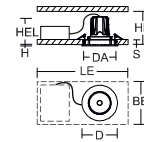
Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK06

Housing: die-cast aluminium, powder-coated, Rotation range: 356°; swivel range: ± 35°.
Heat resistant plastic ring black. Installation without tools thanks to spring fastening system,
With optical assembly polycarbonate lens. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com


Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	[°]	Lighting control
Recessed projectors - Spot lens							
Ceiling cut out DA 168 mm							
911639.00X	D 178, H 3, HE 200	930	2700	25	108	13	on/off
911639.00X.76	D 178, H 3, HE 200	930	2700	25	108	13	DALI
911639.00X.1	D 178, H 3, HE 200	940	2800	25	112	13	on/off
911639.00X.1.76	D 178, H 3, HE 200	940	2800	25	112	13	DALI
911646.00X	D 178, H 3, HE 200	930	3500	35	100	13	on/off
911646.00X.76	D 178, H 3, HE 200	930	3500	35	100	13	DALI
911646.00X.1	D 178, H 3, HE 200	940	3700	35	106	13	on/off
911646.00X.1.76	D 178, H 3, HE 200	940	3700	35	106	13	DALI

Recessed projectors - Medium lens							
Ceiling cut out DA 168 mm							
911640.00X	D 178, H 3, HE 200	930	2600	25	104	31	on/off
911640.00X.76	D 178, H 3, HE 200	930	2600	25	104	31	DALI
911640.00X.1	D 178, H 3, HE 200	940	2700	25	108	31	on/off
911640.00X.1.76	D 178, H 3, HE 200	940	2700	25	108	31	DALI
911647.00X	D 178, H 3, HE 200	930	3400	35	97	31	on/off
911647.00X.76	D 178, H 3, HE 200	930	3400	35	97	31	DALI
911647.00X.1	D 178, H 3, HE 200	940	3550	35	101	31	on/off
911647.00X.1.76	D 178, H 3, HE 200	940	3550	35	101	31	DALI

Recessed projectors - Flood lens							
Ceiling cut out DA 168 mm							
911641.00X	D 178, H 3, HE 200	930	2650	25	106	42	on/off
911641.00X.76	D 178, H 3, HE 200	930	2650	25	106	42	DALI
911641.00X.1	D 178, H 3, HE 200	940	2800	25	112	42	on/off
911641.00X.1.76	D 178, H 3, HE 200	940	2800	25	112	42	DALI
911648.00X	D 178, H 3, HE 200	930	3450	35	99	42	on/off
911648.00X.76	D 178, H 3, HE 200	930	3450	35	99	42	DALI
911648.00X.1	D 178, H 3, HE 200	940	3650	35	104	42	on/off
911648.00X.1.76	D 178, H 3, HE 200	940	3650	35	104	42	DALI

Comparison LED vs. conventional lamps
LED 25 W ≈

1 x 35 W HIT (43 W Psys)

LED 35 W ≈

1 x 50 W HIT (56 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



Accessories: Page 439



Recessed projectors | RONDOS maxi - Food optic reflector

Type of protection: IP 20

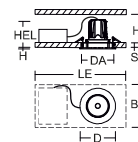
Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK06


Housing: die-cast aluminium, powder-coated. Rotation range: 356°; swivel range: ± 35°. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With MIRO-SILVER® reflector and special food LED. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver



Food LED light colours show food in its best light:

- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	Lighting control
Recessed projectors - Reflector spot							Price Category 21
Ceiling cut out DA 168 mm							
911663.00X.2	D 178, H 3, HE 200	bakery	3300	33	100	17	on/off
911663.00X.2.76	D 178, H 3, HE 200	bakery	3300	33	100	17	DALI
911649.00X	D 178, H 3, HE 200	fresh meat	2100	33	64	17	on/off
911649.00X.76	D 178, H 3, HE 200	fresh meat	2100	33	64	17	DALI
911656.00X	D 178, H 3, HE 200	meat +	2200	33	67	17	on/off
911656.00X.76	D 178, H 3, HE 200	meat +	2200	33	67	17	DALI
Recessed projectors - Reflector medium							Price Category 21
Ceiling cut out DA 168 mm							
911664.00X.2	D 178, H 3, HE 200	bakery	3400	33	103	23	on/off
911664.00X.2.76	D 178, H 3, HE 200	bakery	3400	33	103	23	DALI
911650.00X	D 178, H 3, HE 200	fresh meat	2150	33	65	23	on/off
911650.00X.76	D 178, H 3, HE 200	fresh meat	2150	33	65	23	DALI
911657.00X	D 178, H 3, HE 200	meat +	2250	33	68	23	on/off
911657.00X.76	D 178, H 3, HE 200	meat +	2250	33	68	23	DALI
Recessed projectors - Reflector flood							Price Category 21
Ceiling cut out DA 168 mm							
911665.00X.2	D 178, H 3, HE 200	bakery	3450	33	105	33	on/off
911665.00X.2.76	D 178, H 3, HE 200	bakery	3450	33	105	33	DALI
911651.00X	D 178, H 3, HE 200	fresh meat	2150	33	65	33	on/off
911651.00X.76	D 178, H 3, HE 200	fresh meat	2150	33	65	33	DALI
911658.00X	D 178, H 3, HE 200	meat +	2250	33	68	33	on/off
911658.00X.76	D 178, H 3, HE 200	meat +	2250	33	68	33	DALI
Recessed projectors - Reflector wide flood							Price Category 21
Ceiling cut out DA 168 mm							
911666.00X.2	D 178, H 3, HE 200	bakery	3300	33	100	67	on/off
911666.00X.2.76	D 178, H 3, HE 200	bakery	3300	33	100	67	DALI
911652.00X	D 178, H 3, HE 200	fresh meat	2050	33	62	67	on/off
911652.00X.76	D 178, H 3, HE 200	fresh meat	2050	33	62	67	DALI
911659.00X	D 178, H 3, HE 200	meat +	2150	33	65	67	on/off
911659.00X.76	D 178, H 3, HE 200	meat +	2150	33	65	67	DALI



Accessories: Page 439



Recessed projectors | RONDOS maxi - Food optic lens

Type of protection: IP 20

Protection class: II

Ceiling thickness S: 1-20 mm

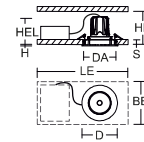
Impact protection: IK06

Housing: die-cast aluminium, powder-coated, Rotation range: 356°; swivel range: ± 35°.

Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.

With optical assembly polycarbonate lens and special food LED. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver



Food LED light colours show food in its best light:

- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control
Recessed projectors - Spot lens							
Ceiling cut out DA 168 mm							
911667.00X.2	D 178, H 3, HE 200	bakery	2950	33	89	17	on/off
911667.00X.2.76	D 178, H 3, HE 200	bakery	2950	33	89	17	DALI
911653.00X	D 178, H 3, HE 200	fresh meat	1800	33	55	17	on/off
911653.00X.76	D 178, H 3, HE 200	fresh meat	1800	33	55	17	DALI
911660.00X	D 178, H 3, HE 200	meat +	1900	33	58	17	on/off
911660.00X.76	D 178, H 3, HE 200	meat +	1900	33	58	17	DALI

Price Category 21

Recessed projectors - Medium lens							
Ceiling cut out DA 168 mm							
911668.00X.2	D 178, H 3, HE 200	bakery	2850	33	86	35	on/off
911668.00X.2.76	D 178, H 3, HE 200	bakery	2850	33	86	35	DALI
911654.00X	D 178, H 3, HE 200	fresh meat	1750	33	53	35	on/off
911654.00X.76	D 178, H 3, HE 200	fresh meat	1750	33	53	35	DALI
911661.00X	D 178, H 3, HE 200	meat +	1850	33	56	35	on/off
911661.00X.76	D 178, H 3, HE 200	meat +	1850	33	56	35	DALI

Price Category 21

Recessed projectors - Flood lens							
Ceiling cut out DA 168 mm							
911669.00X.2	D 178, H 3, HE 200	bakery	2900	33	88	44	on/off
911669.00X.2.76	D 178, H 3, HE 200	bakery	2900	33	88	44	DALI
911655.00X	D 178, H 3, HE 200	fresh meat	1800	33	55	44	on/off
911655.00X.76	D 178, H 3, HE 200	fresh meat	1800	33	55	44	DALI
911662.00X	D 178, H 3, HE 200	meat +	1900	33	58	44	on/off
911662.00X.76	D 178, H 3, HE 200	meat +	1900	33	58	44	DALI

Price Category 21



Accessories: Page 439





Accessories | RONDOS mini



Diffuser

Price Category 21

982370.000	D 74, H 3	Safety glass, clear.
982370.010	D 74, H 3	Safety glass, satin finish.



Anti-glare honeycomb louvre

Price Category 21

982371.003	D 74, H 3	Aluminium, anodised matt black.
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Interchangeable plastic rings

Price Category 21

982419.002	D 82, H 20	White plastic ring for reflector.
982421.002	D 82, H 31	White plastic ring for lens.



Interchangeable optics

Price Category 21

982368.003	D 82, H 55	Reflector spot, narrow beam
982368.013	D 82, H 55	Reflector medium, medium beam
982368.023	D 82, H 55	Reflector flood, wide beam
982368.033	D 82, H 55	Reflector wide flood, very wide beam
982369.003	D 82, H 55	Spot lens, narrow beam
982369.013	D 82, H 55	Medium lens, medium beam
982369.023	D 82, H 55	Flood lens, wide beam
982369.033	D 82, H 55	Extra wide flood lens, extremely wide beam
982369.043	D 82, H 55	Lens with oval light distribution for corridor



Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box

Price Category 21

982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm ² or 3 x 2.5 mm ² possible.
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Compensating rings available for various ceiling cut outs!

Accessories | RONDOS maxi

Diffuser

982374.000	D 111, H 3	Safety glass, clear.
982374.010	D 111, H 3	Safety glass, satin finish.

Price Category 21



Anti-glare honeycomb louvre

982375.003	D 111, H 3	Aluminium, anodised matt black.
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Price Category 21



Interchangeable plastic rings

982420.002	D 118, H 20	White plastic ring for reflector.
982422.002	D 118, H 33	White plastic ring for lens.

Price Category 21



Interchangeable optics

982372.003	D 118, H 83	Reflector spot, narrow beam
982372.013	D 118, H 83	Reflector medium, medium beam
982372.023	D 118, H 83	Reflector flood, wide beam
982372.033	D 118, H 83	Reflector wide flood, very wide beam
982373.003	D 118, H 83	Spot lens, narrow beam
982373.013	D 118, H 83	Medium lens, medium beam
982373.023	D 118, H 83	Flood lens, wide beam

Price Category 21



Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box

982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm ² or 3 x 2.5 mm ² possible.
------------	------------------	--

Price Category 21



Compensating rings
available for various
ceiling cut outs!



superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



GOLAS

Recessed projectors

ARCHITECTURE

- **Variable:** MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone.
- **Long service life:** High quality die-cast aluminium housing in two sizes.
- **Interchangeable:** 8 interchangeable lenses with different beam angles.
- **Individual:** Additional Superspot versions.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.

LIGHTING DESIGN

- **Standard:** Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality.
- **Anti-glare:** Black plastic ring and recessed LED to prevent glare from the side.
- **Versatile:** 7 different light colors with CRI >90 and special Food-LEDs available as standard.
- **True colours:** CRI >90 for the most realistic possible perception of colours of surroundings, objects and people.
- **Advantageous:** LED rated life 50000 h (L90/B10).
- **Optimum:** Colour tolerance within 2-steps MacAdam (2 SDCM).

INSTALLATION

- **Easy installation:** Converter in separate box. Very simple installation with plug-in locking system.
- **Flexible:** Swivels by 90° and turns by 356° - resulting in maximum flexibility in adjustment.
- **Straightforward:** Suitable for through-wiring with separately available accessories.
- **Extensive:** The following accessories can be mounted without use of tools: interchangeable lenses, decorative glasses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring.

Recessed projectors | GOLAS mini - Superspot optic reflector

Type of protection: IP 20

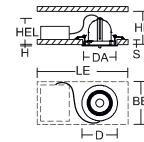
Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK03

Housing: die-cast aluminium, powder-coated, 356° rotation range and 90° swivel range.
Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.
With MIRO-SILVER® reflector. Superspot version with small spot LED. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	Price Category 21
Recessed projectors - Reflector superspot							
Ceiling cut out DA 133 mm							
911564.00X	D 143, H 3, HE 170	930	2150	22	98	13	on/off
911564.00X.76	D 143, H 3, HE 170	930	2150	22	98	13	DALI
911564.00X.1	D 143, H 3, HE 170	940	2350	22	107	13	on/off
911564.00X.1.76	D 143, H 3, HE 170	940	2350	22	107	13	DALI

Comparison LED vs. conventional lamps

LED 22 W ≈
1 x 35 W HIT (43 W Psys)

Recessed projectors | GOLAS mini - Superspot optic lens

Type of protection: IP 20

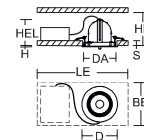
Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK03

Housing: die-cast aluminium, powder-coated, 356° rotation range and 90° swivel range.
Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.
With optical assembly polycarbonate lens. Superspot version with small spot LED.
Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver



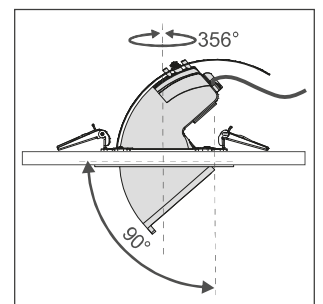
Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	Price Category 21
Recessed projectors - Superspot lens							
Ceiling cut out DA 133 mm							
911565.00X	D 143, H 3, HE 170	930	1900	22	86	15	on/off
911565.00X.76	D 143, H 3, HE 170	930	1900	22	86	15	DALI
911565.00X.1	D 143, H 3, HE 170	940	2100	22	95	15	on/off
911565.00X.1.76	D 143, H 3, HE 170	940	2100	22	95	15	DALI

Comparison LED vs. conventional lamps

LED 22 W ≈
1 x 35 W HIT (43 W Psys)



Accessories: Page 450



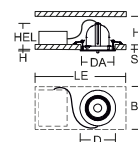
**Recessed projectors | GOLAS mini - Optic reflector**

Type of protection: IP 20
 Protection class: II
 Ceiling thickness S: 1-20 mm
 Impact protection: IK03

Housing: die-cast aluminium, powder-coated, 356° rotation range and 90° swivel range.
 Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.
 With MIRO-SILVER® reflector. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com

**Comparison
LED vs. conventional lamps****LED 20 W ≈**

1 x 35 W HIT (43 W Psys)

LED 29 W ≈

1 x 50 W HIT (56 W Psys)

**Recessed projectors - Reflector spot****Price Category 21****Ceiling cut out DA 133 mm**

911566.00X	D 143, H 3, HE 170	930	2450	20	123	18	on/off
911566.00X.76	D 143, H 3, HE 170	930	2450	20	123	18	DALI
911566.00X.1	D 143, H 3, HE 170	940	2550	20	128	18	on/off
911566.00X.1.76	D 143, H 3, HE 170	940	2550	20	128	18	DALI
911574.00X	D 143, H 3, HE 170	930	3500	29	121	18	on/off
911574.00X.76	D 143, H 3, HE 170	930	3500	29	121	18	DALI
911574.00X.1	D 143, H 3, HE 170	940	3550	29	122	18	on/off
911574.00X.1.76	D 143, H 3, HE 170	940	3550	29	122	18	DALI

**Recessed projectors - Reflector medium****Price Category 21****Ceiling cut out DA 133 mm**

911567.00X	D 143, H 3, HE 170	930	2400	20	120	31	on/off
911567.00X.76	D 143, H 3, HE 170	930	2400	20	120	31	DALI
911567.00X.1	D 143, H 3, HE 170	940	2450	20	123	31	on/off
911567.00X.1.76	D 143, H 3, HE 170	940	2450	20	123	31	DALI
911575.00X	D 143, H 3, HE 170	930	3350	29	116	31	on/off
911575.00X.76	D 143, H 3, HE 170	930	3350	29	116	31	DALI
911575.00X.1	D 143, H 3, HE 170	940	3500	29	121	31	on/off
911575.00X.1.76	D 143, H 3, HE 170	940	3500	29	121	31	DALI

**Recessed projectors - Reflector wide flood****Price Category 21****Ceiling cut out DA 133 mm**

911568.00X	D 143, H 3, HE 170	930	2450	20	123	60	on/off
911568.00X.76	D 143, H 3, HE 170	930	2450	20	123	60	DALI
911568.00X.1	D 143, H 3, HE 170	940	2550	20	128	60	on/off
911568.00X.1.76	D 143, H 3, HE 170	940	2550	20	128	60	DALI
911576.00X	D 143, H 3, HE 170	930	3500	29	121	60	on/off
911576.00X.76	D 143, H 3, HE 170	930	3500	29	121	60	DALI
911576.00X.1	D 143, H 3, HE 170	940	3650	29	126	60	on/off
911576.00X.1.76	D 143, H 3, HE 170	940	3650	29	126	60	DALI

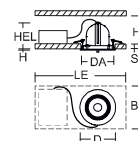
**Recessed projectors | GOLAS mini - Oval corridor optic lens**

Type of protection: IP 20
 Protection class: II
 Ceiling thickness S: 1-20 mm
 Impact protection: IK03

Housing: die-cast aluminium, powder-coated, 356° rotation range and 90° swivel range.
 Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.
 With optical assembly polycarbonate lens. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com

**Recessed projectors - Oval corridor lens****Price Category 21****Ceiling cut out DA 133 mm**

911573.00X	D 143, H 3, HE 170	930	1850	20	93	40/28	on/off
911573.00X.76	D 143, H 3, HE 170	930	1850	20	93	40/28	DALI
911573.00X.1	D 143, H 3, HE 170	940	1950	20	98	40/28	on/off
911573.00X.1.76	D 143, H 3, HE 170	940	1950	20	98	40/28	DALI
911581.00X	D 143, H 3, HE 170	930	2650	29	91	40/28	on/off
911581.00X.76	D 143, H 3, HE 170	930	2650	29	91	40/28	DALI
911581.00X.1	D 143, H 3, HE 170	940	2750	29	95	40/28	on/off
911581.00X.1.76	D 143, H 3, HE 170	940	2750	29	95	40/28	DALI



Accessories: Page 450

Recessed projectors | GOLAS mini - Optic lens

Type of protection: IP 20

Protection class: II

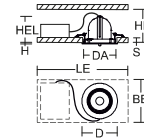
Ceiling thickness S: 1-20 mm

Impact protection: IK03

Housing: die-cast aluminium, powder-coated, 356° rotation range and 90° swivel range.
Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.
With optical assembly polycarbonate lens. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control	Price Category 21
Recessed projectors - Spot lens								
Ceiling cut out DA 133 mm								
911569.00X	D 143, H 3, HE 170	930	2150	20	108	20	on/off	
911569.00X.76	D 143, H 3, HE 170	930	2150	20	108	20	DALI	
911569.00X.1	D 143, H 3, HE 170	940	2250	20	113	20	on/off	
911569.00X.1.76	D 143, H 3, HE 170	940	2250	20	113	20	DALI	
911577.00X	D 143, H 3, HE 170	930	3050	29	105	20	on/off	
911577.00X.76	D 143, H 3, HE 170	930	3050	29	105	20	DALI	
911577.00X.1	D 143, H 3, HE 170	940	3200	29	110	20	on/off	
911577.00X.1.76	D 143, H 3, HE 170	940	3200	29	110	20	DALI	

Recessed projectors - Medium lens								
Ceiling cut out DA 133 mm								
911570.00X	D 143, H 3, HE 170	930	2050	20	103	31	on/off	
911570.00X.76	D 143, H 3, HE 170	930	2050	20	103	31	DALI	
911570.00X.1	D 143, H 3, HE 170	940	2100	20	105	31	on/off	
911570.00X.1.76	D 143, H 3, HE 170	940	2100	20	105	31	DALI	
911578.00X	D 143, H 3, HE 170	930	2900	29	100	31	on/off	
911578.00X.76	D 143, H 3, HE 170	930	2900	29	100	31	DALI	
911578.00X.1	D 143, H 3, HE 170	940	3050	29	105	31	on/off	
911578.00X.1.76	D 143, H 3, HE 170	940	3050	29	105	31	DALI	

Recessed projectors - Flood lens								
Ceiling cut out DA 133 mm								
911571.00X	D 143, H 3, HE 170	930	1900	20	95	44	on/off	
911571.00X.76	D 143, H 3, HE 170	930	1900	20	95	44	DALI	
911571.00X.1	D 143, H 3, HE 170	940	2000	20	100	44	on/off	
911571.00X.1.76	D 143, H 3, HE 170	940	2000	20	100	44	DALI	
911579.00X	D 143, H 3, HE 170	930	2750	29	95	44	on/off	
911579.00X.76	D 143, H 3, HE 170	930	2750	29	95	44	DALI	
911579.00X.1	D 143, H 3, HE 170	940	2850	29	98	44	on/off	
911579.00X.1.76	D 143, H 3, HE 170	940	2850	29	98	44	DALI	

Recessed projectors - Extra wide flood lens								
Ceiling cut out DA 133 mm								
911572.00X	D 143, H 3, HE 170	930	2200	20	110	72	on/off	
911572.00X.76	D 143, H 3, HE 170	930	2200	20	110	72	DALI	
911572.00X.1	D 143, H 3, HE 170	940	2300	20	115	72	on/off	
911572.00X.1.76	D 143, H 3, HE 170	940	2300	20	115	72	DALI	
911580.00X	D 143, H 3, HE 170	930	3100	29	107	72	on/off	
911580.00X.76	D 143, H 3, HE 170	930	3100	29	107	72	DALI	
911580.00X.1	D 143, H 3, HE 170	940	3250	29	112	72	on/off	
911580.00X.1.76	D 143, H 3, HE 170	940	3250	29	112	72	DALI	



Comparison LED vs. conventional lamps

LED 20 W ≈

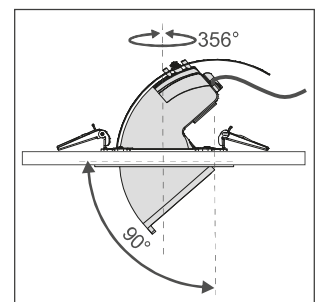
1 x 35 W HIT (43 W Psys)

LED 29 W ≈

1 x 50 W HIT (56 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°

Accessories: Page 450





Recessed projectors | GOLAS maxi - Optic reflector

Type of protection: IP 20

Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK03

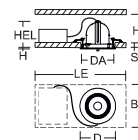
Housing: die-cast aluminium, powder-coated, 356° rotation range and 90° swivel range.

Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.

With MIRO-SILVER® reflector. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 25 W ≈

1 x 35 W HIT (43 W Psys)

LED 35 W ≈

1 x 50 W HIT (56 W Psys)



Recessed projectors - Reflector spot

Price Category 21

Ceiling cut out DA 168 mm

911584.00X	D 178, H 3, HE 200	930	3050	25	122	12	on/off
911584.00X.76	D 178, H 3, HE 200	930	3050	25	122	12	DALI
911584.00X.1	D 178, H 3, HE 200	940	3200	25	128	12	on/off
911584.00X.1.76	D 178, H 3, HE 200	940	3200	25	128	12	DALI
911591.00X	D 178, H 3, HE 200	930	4000	35	114	12	on/off
911591.00X.76	D 178, H 3, HE 200	930	4000	35	114	12	DALI
911591.00X.1	D 178, H 3, HE 200	940	4200	35	120	12	on/off
911591.00X.1.76	D 178, H 3, HE 200	940	4200	35	120	12	DALI



Recessed projectors - Reflector medium

Price Category 21

Ceiling cut out DA 168 mm

911585.00X	D 178, H 3, HE 200	930	3150	25	126	21	on/off
911585.00X.76	D 178, H 3, HE 200	930	3150	25	126	21	DALI
911585.00X.1	D 178, H 3, HE 200	940	3300	25	132	21	on/off
911585.00X.1.76	D 178, H 3, HE 200	940	3300	25	132	21	DALI
911592.00X	D 178, H 3, HE 200	930	4200	35	120	21	on/off
911592.00X.76	D 178, H 3, HE 200	930	4200	35	120	21	DALI
911592.00X.1	D 178, H 3, HE 200	940	4300	35	123	21	on/off
911592.00X.1.76	D 178, H 3, HE 200	940	4300	35	123	21	DALI



Recessed projectors - Reflector flood

Price Category 21

Ceiling cut out DA 168 mm

911586.00X	D 178, H 3, HE 200	930	3150	25	126	33	on/off
911586.00X.76	D 178, H 3, HE 200	930	3150	25	126	33	DALI
911586.00X.1	D 178, H 3, HE 200	940	3350	25	134	33	on/off
911586.00X.1.76	D 178, H 3, HE 200	940	3350	25	134	33	DALI
911593.00X	D 178, H 3, HE 200	930	4200	35	120	33	on/off
911593.00X.76	D 178, H 3, HE 200	930	4200	35	120	33	DALI
911593.00X.1	D 178, H 3, HE 200	940	4350	35	124	33	on/off
911593.00X.1.76	D 178, H 3, HE 200	940	4350	35	124	33	DALI



Recessed projectors - Reflector wide flood

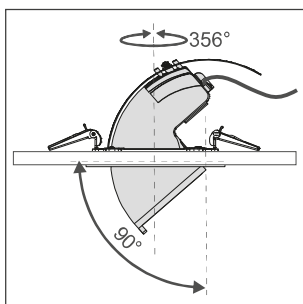
Price Category 21

Ceiling cut out DA 168 mm

911587.00X	D 178, H 3, HE 200	930	3050	25	122	65	on/off
911587.00X.76	D 178, H 3, HE 200	930	3050	25	122	65	DALI
911587.00X.1	D 178, H 3, HE 200	940	3200	25	128	65	on/off
911587.00X.1.76	D 178, H 3, HE 200	940	3200	25	128	65	DALI
911594.00X	D 178, H 3, HE 200	930	3950	35	113	65	on/off
911594.00X.76	D 178, H 3, HE 200	930	3950	35	113	65	DALI
911594.00X.1	D 178, H 3, HE 200	940	4200	35	120	65	on/off
911594.00X.1.76	D 178, H 3, HE 200	940	4200	35	120	65	DALI



Accessories: Page 451



Recessed projectors | GOLAS maxi - Optic lens

Type of protection: IP 20

Protection class: II

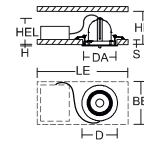
Ceiling thickness S: 1-20 mm


Impact protection: IK03

Housing: die-cast aluminium, powder-coated, 356° rotation range and 90° swivel range.
Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.
With optical assembly polycarbonate lens. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	Lighting control	Price Category 21
Recessed projectors - Spot lens								
Ceiling cut out DA 168 mm								
911588.00X	D 178, H 3, HE 200	930	2700	25	108	13	on/off	
911588.00X.76	D 178, H 3, HE 200	930	2700	25	108	13	DALI	
911588.00X.1	D 178, H 3, HE 200	940	2800	25	112	13	on/off	
911588.00X.1.76	D 178, H 3, HE 200	940	2800	25	112	13	DALI	
911595.00X	D 178, H 3, HE 200	930	3500	35	100	13	on/off	
911595.00X.76	D 178, H 3, HE 200	930	3500	35	100	13	DALI	
911595.00X.1	D 178, H 3, HE 200	940	3700	35	106	13	on/off	
911595.00X.1.76	D 178, H 3, HE 200	940	3700	35	106	13	DALI	

Recessed projectors - Medium lens								
Ceiling cut out DA 168 mm								
911589.00X	D 178, H 3, HE 200	930	2600	25	104	31	on/off	
911589.00X.76	D 178, H 3, HE 200	930	2600	25	104	31	DALI	
911589.00X.1	D 178, H 3, HE 200	940	2700	25	108	31	on/off	
911589.00X.1.76	D 178, H 3, HE 200	940	2700	25	108	31	DALI	
911596.00X	D 178, H 3, HE 200	930	3400	35	97	31	on/off	
911596.00X.76	D 178, H 3, HE 200	930	3400	35	97	31	DALI	
911596.00X.1	D 178, H 3, HE 200	940	3550	35	101	31	on/off	
911596.00X.1.76	D 178, H 3, HE 200	940	3550	35	101	31	DALI	

Recessed projectors - Flood lens								
Ceiling cut out DA 168 mm								
911590.00X	D 178, H 3, HE 200	930	2650	25	106	42	on/off	
911590.00X.76	D 178, H 3, HE 200	930	2650	25	106	42	DALI	
911590.00X.1	D 178, H 3, HE 200	940	2800	25	112	42	on/off	
911590.00X.1.76	D 178, H 3, HE 200	940	2800	25	112	42	DALI	
911597.00X	D 178, H 3, HE 200	930	3450	35	99	42	on/off	
911597.00X.76	D 178, H 3, HE 200	930	3450	35	99	42	DALI	
911597.00X.1	D 178, H 3, HE 200	940	3650	35	104	42	on/off	
911597.00X.1.76	D 178, H 3, HE 200	940	3650	35	104	42	DALI	

Comparison LED vs. conventional lamps

LED 25 W ≈

1 x 35 W HIT (43 W Psys)

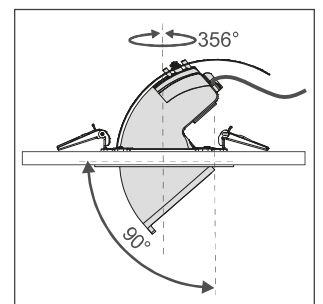
LED 35 W ≈

1 x 50 W HIT (56 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



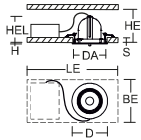
Accessories: Page 451





Recessed projectors | GOLAS maxi - Superspot optic reflector

Type of protection: IP 20
Protection class: II
Ceiling thickness S: 1-20 mm
Impact protection: IK03
Housing: die-cast aluminium, powder-coated, 356° rotation range and 90° swivel range.
Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.
With MIRO-SILVER® reflector. Superspot version with small spot LED. Including separate LED converter with connecting cable 600 mm.
Available colours (X): 2 = white, 3 = black, 4 = silver



Comparison
LED vs. conventional lamps

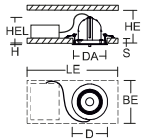
LED 22 W ≈
1 x 35 W HIT (43 W Psys)

Recessed projectors - Reflector superspot								Price Category 21
Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control	
Ceiling cut out DA 168 mm								
911582.00X	D 178, H 3, HE 200	930	2150	22	98	9	on/off	
911582.00X.76	D 178, H 3, HE 200	930	2150	22	98	9	DALI	
911582.00X.1	D 178, H 3, HE 200	940	2300	22	105	9	on/off	
911582.00X.1.76	D 178, H 3, HE 200	940	2300	22	105	9	DALI	



Recessed projectors | GOLAS maxi - Superspot optic lens

Type of protection: IP 20
Protection class: II
Ceiling thickness S: 1-20 mm
Impact protection: IK03
Housing: die-cast aluminium, powder-coated, 356° rotation range and 90° swivel range.
Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.
With optical assembly polycarbonate lens. Superspot version with small spot LED. Including separate LED converter with connecting cable 600 mm.
Available colours (X): 2 = white, 3 = black, 4 = silver

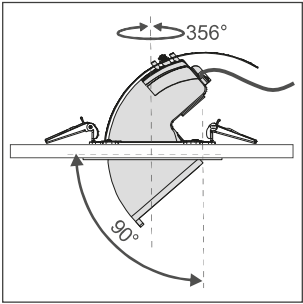


Comparison
LED vs. conventional lamps

LED 22 W ≈
1 x 35 W HIT (43 W Psys)

Recessed projectors - Superspot lens								Price Category 21
Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control	
Ceiling cut out DA 168 mm								
911583.00X	D 178, H 3, HE 200	930	1850	22	84	10	on/off	
911583.00X.76	D 178, H 3, HE 200	930	1850	22	84	10	DALI	
911583.00X.1	D 178, H 3, HE 200	940	2050	22	93	10	on/off	
911583.00X.1.76	D 178, H 3, HE 200	940	2050	22	93	10	DALI	

Accessories: Page 451







Recessed projectors | GOLAS maxi - Food optic reflector

Type of protection: IP 20

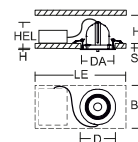
Protection class: II

Ceiling thickness S: 1-20 mm

Impact protection: IK03


Housing: die-cast aluminium, powder-coated, 356° rotation range and 90° swivel range. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With MIRO-SILVER® reflector and special food LED. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver



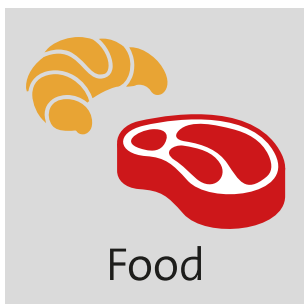
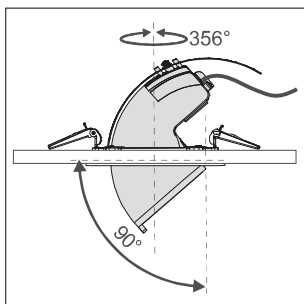
Food LED light colours show food in its best light:

- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	Lighting control
Recessed projectors - Reflector spot							Price Category 21
Ceiling cut out DA 168 mm							
911612.00X.2	D 178, H 3, HE 200	bakery	3300	33	100	17	on/off
911612.00X.2.76	D 178, H 3, HE 200	bakery	3300	33	100	17	DALI
911598.00X	D 178, H 3, HE 200	fresh meat	2100	33	64	17	on/off
911598.00X.76	D 178, H 3, HE 200	fresh meat	2100	33	64	17	DALI
911605.00X	D 178, H 3, HE 200	meat +	2200	33	67	17	on/off
911605.00X.76	D 178, H 3, HE 200	meat +	2200	33	67	17	DALI
Recessed projectors - Reflector medium							Price Category 21
Ceiling cut out DA 168 mm							
911613.00X.2	D 178, H 3, HE 200	bakery	3400	33	103	23	on/off
911613.00X.2.76	D 178, H 3, HE 200	bakery	3400	33	103	23	DALI
911599.00X	D 178, H 3, HE 200	fresh meat	2150	33	65	23	on/off
911599.00X.76	D 178, H 3, HE 200	fresh meat	2150	33	65	23	DALI
911606.00X	D 178, H 3, HE 200	meat +	2250	33	68	23	on/off
911606.00X.76	D 178, H 3, HE 200	meat +	2250	33	68	23	DALI
Recessed projectors - Reflector flood							Price Category 21
Ceiling cut out DA 168 mm							
911614.00X.2	D 178, H 3, HE 200	bakery	3450	33	105	33	on/off
911614.00X.2.76	D 178, H 3, HE 200	bakery	3450	33	105	33	DALI
911600.00X	D 178, H 3, HE 200	fresh meat	2150	33	65	33	on/off
911600.00X.76	D 178, H 3, HE 200	fresh meat	2150	33	65	33	DALI
911607.00X	D 178, H 3, HE 200	meat +	2250	33	68	33	on/off
911607.00X.76	D 178, H 3, HE 200	meat +	2250	33	68	33	DALI
Recessed projectors - Reflector wide flood							Price Category 21
Ceiling cut out DA 168 mm							
911615.00X.2	D 178, H 3, HE 200	bakery	3300	33	100	67	on/off
911615.00X.2.76	D 178, H 3, HE 200	bakery	3300	33	100	67	DALI
911601.00X	D 178, H 3, HE 200	fresh meat	2050	33	62	67	on/off
911601.00X.76	D 178, H 3, HE 200	fresh meat	2050	33	62	67	DALI
911608.00X	D 178, H 3, HE 200	meat +	2150	33	65	67	on/off
911608.00X.76	D 178, H 3, HE 200	meat +	2150	33	65	67	DALI



Accessories: Page 451



Recessed projectors | GOLAS maxi - Food optic lens

Type of protection: IP 20

Protection class: II

Ceiling thickness S: 1-20 mm

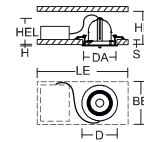
Impact protection: IK03

Housing: die-cast aluminium, powder-coated, 356° rotation range and 90° swivel range.

Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.

With optical assembly polycarbonate lens and special food LED. Including separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver



Food LED light colours show food in its best light:

- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°

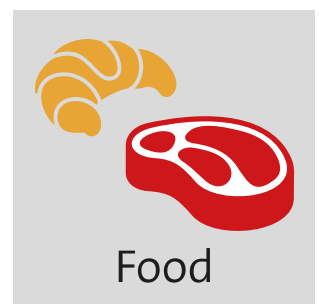
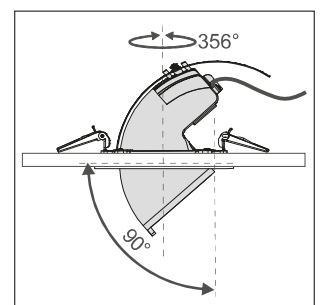
Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	Price Category 21
Recessed projectors - Spot lens							
Ceiling cut out DA 168 mm							
911616.00X.2	D 178, H 3, HE 200	bakery	2950	33	89	17	on/off
911616.00X.2.76	D 178, H 3, HE 200	bakery	2950	33	89	17	DALI
911602.00X	D 178, H 3, HE 200	fresh meat	1800	33	55	17	on/off
911602.00X.76	D 178, H 3, HE 200	fresh meat	1800	33	55	17	DALI
911609.00X	D 178, H 3, HE 200	meat +	1900	33	58	17	on/off
911609.00X.76	D 178, H 3, HE 200	meat +	1900	33	58	17	DALI

Recessed projectors - Medium lens							
Ceiling cut out DA 168 mm							
911617.00X.2	D 178, H 3, HE 200	bakery	2850	33	86	35	on/off
911617.00X.2.76	D 178, H 3, HE 200	bakery	2850	33	86	35	DALI
911603.00X	D 178, H 3, HE 200	fresh meat	1750	33	53	35	on/off
911603.00X.76	D 178, H 3, HE 200	fresh meat	1750	33	53	35	DALI
911610.00X	D 178, H 3, HE 200	meat +	1850	33	56	35	on/off
911610.00X.76	D 178, H 3, HE 200	meat +	1850	33	56	35	DALI

Recessed projectors - Flood lens							
Ceiling cut out DA 168 mm							
911618.00X.2	D 178, H 3, HE 200	bakery	2900	33	88	44	on/off
911618.00X.2.76	D 178, H 3, HE 200	bakery	2900	33	88	44	DALI
911604.00X	D 178, H 3, HE 200	fresh meat	1800	33	55	44	on/off
911604.00X.76	D 178, H 3, HE 200	fresh meat	1800	33	55	44	DALI
911611.00X	D 178, H 3, HE 200	meat +	1900	33	58	44	on/off
911611.00X.76	D 178, H 3, HE 200	meat +	1900	33	58	44	DALI



Accessories: Page 451





Accessories | GOLAS mini



Diffuser			Price Category 21
982370.000	D 74, H 3	Safety glass, clear.	
982370.010	D 74, H 3	Safety glass, satin finish.	



Anti-glare honeycomb louvre			Price Category 21
982371.003	D 74, H 3	Aluminium, anodised matt black.	



Interchangeable plastic rings			Price Category 21
982419.002	D 82, H 20	White plastic ring for reflector.	
982421.002	D 82, H 31	White plastic ring for lens.	



Interchangeable optics			Price Category 21
982368.003	D 82, H 55	Reflector spot, narrow beam	
982368.013	D 82, H 55	Reflector medium, medium beam	
982368.023	D 82, H 55	Reflector flood, wide beam	
982368.033	D 82, H 55	Reflector wide flood, very wide beam	
982369.003	D 82, H 55	Spot lens, narrow beam	
982369.013	D 82, H 55	Medium lens, medium beam	
982369.023	D 82, H 55	Flood lens, wide beam	
982369.033	D 82, H 55	Extra wide flood lens, extremely wide beam	
982369.043	D 82, H 55	Lens with oval light distribution for corridor	



Accessories Through-wiring box			
Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.			
Through-wiring box			Price Category 21
982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm² or 3 x 2.5 mm² possible.	



Compensating rings available for various ceiling cut outs!

Accessories | GOLAS maxi



Diffuser

Price Category 21

982374.000	D 111, H 3	Safety glass, clear.
982374.010	D 111, H 3	Safety glass, satin finish.



Anti-glare honeycomb louvre

Price Category 21

982375.003	D 111, H 3	Aluminium, anodised matt black.
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Interchangeable plastic rings

Price Category 21

982420.002	D 118, H 20	White plastic ring for reflector.
982422.002	D 118, H 33	White plastic ring for lens.



Interchangeable optics

Price Category 21

982372.003	D 118, H 83	Reflector spot, narrow beam
982372.013	D 118, H 83	Reflector medium, medium beam
982372.023	D 118, H 83	Reflector flood, wide beam
982372.033	D 118, H 83	Reflector wide flood, very wide beam
982373.003	D 118, H 83	Spot lens, narrow beam
982373.013	D 118, H 83	Medium lens, medium beam
982373.023	D 118, H 83	Flood lens, wide beam



Accessories | Through-wiring box

Plug-in extension for through-wiring. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box

Price Category 21

982703.002	L 98, B 55, H 28	5 pole, cable cross-sections of up to 5 x 1.5 mm ² or 3 x 2.5 mm ² possible.
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Compensating rings
available for various
ceiling cut outs!



superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



TX-MOVE

Recessed projectors

ARCHITECTURE

- **Uniform:** For uniform ambient lighting of wide areas and focussed lighting of large advertising boards and shop shelves.
- **Versatile:** High-efficiency LED units with optimum light control thanks to clear plastic (PC) lens optics or flush-mounted opal diffuser made of non-yellowing PMMA.
- **Advantageous:** Unobtrusive effect thanks to flat design and also predestined for low ceiling heights.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components. Not a disposable luminaire.

LIGHTING DESIGN

- **True colours:** Best colour rendering with CRI >90 for fresh produce and coloured textiles.
- **Reduced:** Special microstructures in the specially developed lens optics reduce the yellow corona (caused by chromatic aberration) to an absolute minimum.
- **Anti-glare:** Versions with $UGR \leq 19$ can also be used in till areas.
- **Reliable planning:** Various beam variants: narrow, medium, wide, asymmetrical as standard, others on request.

INSTALLATION

- **Variable:** MultiLumen - 3-step adjustable luminous flux.
- **Flexible:** Can be swivelled by 90° for optimal illumination, visible tilt scale.



Further luminaires of this series, see:
Indoor lighting | Surface mounted projectors

TX-MOVE

Everything at a glance

TX-Move is a lay-in luminaire for grid ceilings module 600 or module 625, which can be flexibly positioned anywhere in the ceiling frame.

The individually adapted ceiling panel available on site can simply be on the frame of the luminaire housing.

Inner cover inhibits view into the false ceiling.

Accessories

Mounting frame for installation in suspended ceilings.





Comparison LED vs. conventional lamps

Optic lenses

LED 16 W ≈

1 x 28 W T16 (31 W Psys)
1 x 20 W HIT (23 W Psys)

LED 18 W ≈

1 x 39 W T16 (41 W Psys)
1 x 35 W HIT (43 W Psys)

LED 31 W ≈

1 x 49 W T16 (53 W Psys)
1 x 50 W HIT (56 W Psys)

LED 39 W ≈

2 x 39 W T16 (82 W Psys)
1 x 70 W HIT (84 W Psys)



Recessed projectors | TX-MOVE - one lamp

Type of protection: IP 20

Protection class: I

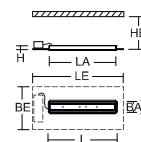
Impact protection: IK03 (Diffuser: opal), IK04 (Optic lenses)

Housing: sheet steel, powder-coated. Swivel range: 90°. High-efficiency LED units with optimum light control thanks to clear plastic (PC) lens optics or flush-mounted opal diffuser made of non-yellowing PMMA. Connected converter included in separate gearbox. Suitable for through-wiring.

MultiLumen: 3 steps adjustable luminous flux. Factory setting is the highest luminous flux.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colour 835 also available as standard articles - see www.rzb-lighting.com



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency ^a [lm/W]	α [°]	Lighting control
Lay-in luminaires for grid ceilings - for module 600							Price Category 21
Diffuser: plastic (PMMA), opal							
901727.00X.2	L 597, B 116, H 39, HE 100	927	1700...3050	16...31	106	112	on/off
901727.00X.2.76	L 597, B 116, H 39, HE 100	927	1700...3050	16...31	106	112	DALI
901727.00X	L 597, B 116, H 39, HE 100	830	2450...4700	18...39	136	112	on/off
901727.00X.76	L 597, B 116, H 39, HE 100	830	2450...4700	18...39	136	112	DALI
901727.00X.1	L 597, B 116, H 39, HE 100	840	2550...4900	18...39	142	112	on/off
901727.00X.1.76	L 597, B 116, H 39, HE 100	840	2550...4900	18...39	142	112	DALI
Optic lenses - symmetrical							
901724.00X.2	L 597, B 116, H 39, HE 100	927	1950...3500	16...31	122	30	on/off
901724.00X.2.76	L 597, B 116, H 39, HE 100	927	1950...3500	16...31	122	30	DALI
901725.00X.2	L 597, B 116, H 39, HE 100	927	2000...3550	16...31	125	85	on/off
901725.00X.2.76	L 597, B 116, H 39, HE 100	927	2000...3550	16...31	125	85	DALI
901724.00X	L 597, B 116, H 39, HE 100	830	2800...5450	18...39	156	30	on/off
901724.00X.76	L 597, B 116, H 39, HE 100	830	2800...5450	18...39	156	30	DALI
901725.00X	L 597, B 116, H 39, HE 100	830	2850...5550	18...39	158	85	on/off
901725.00X.76	L 597, B 116, H 39, HE 100	830	2850...5550	18...39	158	85	DALI
901724.00X.1	L 597, B 116, H 39, HE 100	840	2950...5650	18...39	164	30	on/off
901724.00X.1.76	L 597, B 116, H 39, HE 100	840	2950...5650	18...39	164	30	DALI
901725.00X.1	L 597, B 116, H 39, HE 100	840	3000...5800	18...39	167	85	on/off
901725.00X.1.76	L 597, B 116, H 39, HE 100	840	3000...5800	18...39	167	85	DALI
Optic lenses - asymmetrical							
901726.00X.2	L 597, B 116, H 39, HE 100	927	1950...3350	16...31	122		on/off
901726.00X.2.76	L 597, B 116, H 39, HE 100	927	1950...3350	16...31	122		DALI
901726.00X	L 597, B 116, H 39, HE 100	830	2700...5200	18...39	150		on/off
901726.00X.76	L 597, B 116, H 39, HE 100	830	2700...5200	18...39	150		DALI
901726.00X.1	L 597, B 116, H 39, HE 100	840	2800...5450	18...39	156		on/off
901726.00X.1.76	L 597, B 116, H 39, HE 100	840	2800...5450	18...39	156		DALI
Lay-in luminaires for grid ceilings - for module 625							
Diffuser: plastic (PMMA), opal							
901731.00X.2	L 622, B 116, H 39, HE 100	927	1700...3050	16...31	106	112	on/off
901731.00X.2.76	L 622, B 116, H 39, HE 100	927	1700...3050	16...31	106	112	DALI
901731.00X	L 622, B 116, H 39, HE 100	830	2450...4700	18...39	136	112	on/off
901731.00X.76	L 622, B 116, H 39, HE 100	830	2450...4700	18...39	136	112	DALI
901731.00X.1	L 622, B 116, H 39, HE 100	840	2550...4900	18...39	142	112	on/off
901731.00X.1.76	L 622, B 116, H 39, HE 100	840	2550...4900	18...39	142	112	DALI
Optic lenses - symmetrical							
901728.00X.2	L 622, B 116, H 39, HE 100	927	1950...3500	16...31	122	30	on/off
901728.00X.2.76	L 622, B 116, H 39, HE 100	927	1950...3500	16...31	122	30	DALI
901729.00X.2	L 622, B 116, H 39, HE 100	927	2000...3550	16...31	125	85	on/off
901729.00X.2.76	L 622, B 116, H 39, HE 100	927	2000...3550	16...31	125	85	DALI
901728.00X	L 622, B 116, H 39, HE 100	830	2800...5450	18...39	156	30	on/off
901728.00X.76	L 622, B 116, H 39, HE 100	830	2800...5450	18...39	156	30	DALI
901729.00X	L 622, B 116, H 39, HE 100	830	2850...5550	18...39	158	85	on/off
901729.00X.76	L 622, B 116, H 39, HE 100	830	2850...5550	18...39	158	85	DALI
901728.00X.1	L 622, B 116, H 39, HE 100	840	2950...5650	18...39	164	30	on/off
901728.00X.1.76	L 622, B 116, H 39, HE 100	840	2950...5650	18...39	164	30	DALI
901729.00X.1	L 622, B 116, H 39, HE 100	840	3000...5800	18...39	167	85	on/off
901729.00X.1.76	L 622, B 116, H 39, HE 100	840	3000...5800	18...39	167	85	DALI
Optic lenses - asymmetrical							
901730.00X.2	L 622, B 116, H 39, HE 100	927	1950...3350	16...31	122		on/off
901730.00X.2.76	L 622, B 116, H 39, HE 100	927	1950...3350	16...31	122		DALI
901730.00X	L 622, B 116, H 39, HE 100	830	2700...5200	18...39	150		on/off
901730.00X.76	L 622, B 116, H 39, HE 100	830	2700...5200	18...39	150		DALI
901730.00X.1	L 622, B 116, H 39, HE 100	840	2800...5450	18...39	156		on/off
901730.00X.1.76	L 622, B 116, H 39, HE 100	840	2800...5450	18...39	156		DALI

MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Mounting frame for installation in suspended ceilings

Price Category 21

982866.00X	L 626, B 141, H 2, HE 150	one lamp, for module 600
982868.00X	L 650, B 141, H 2, HE 150	one lamp, for module 625

Recessed projectors | TX-MOVE - two lamps

Type of protection: IP 20

Protection class: I

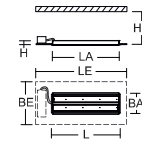
Impact protection: IK03 (Diffuser: opal), IK04 (Optic lenses)

Housing: sheet steel, powder-coated. Swivel range: 2 x 90°. High-efficiency LED units with optimum light control thanks to clear plastic (PC) lens optics or flush-mounted opal diffuser made of non-yellowing PMMA. Connected converter included in separate gearbox. Suitable for through-wiring.

MultiLumen: 3 steps adjustable luminous flux. Factory setting is the highest luminous flux.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colour 835 also available as standard articles - see www.rzb-lighting.com



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Lay-in luminaires for grid ceilings - for module 600							
Diffuser: plastic (PMMA), opal							
901735.00X.2	L 597, B 190, H 39, HE 100	927	3500...5850	32...62	109	112	on/off
901735.00X.2.76	L 597, B 190, H 39, HE 100	927	3500...5850	32...62	109	112	DALI
901735.00X	L 597, B 190, H 39, HE 100	830	4850...8450	35...68	139	112	on/off
901735.00X.76	L 597, B 190, H 39, HE 100	830	4850...8450	35...68	139	112	DALI
901735.00X.1	L 597, B 190, H 39, HE 100	840	4900...8750	35...68	140	112	on/off
901735.00X.1.76	L 597, B 190, H 39, HE 100	840	4900...8750	35...68	140	112	DALI
Optic lenses - symmetrical							
901732.00X.2	L 597, B 190, H 39, HE 100	927	4000...6750	32...62	125	30	on/off
901732.00X.2.76	L 597, B 190, H 39, HE 100	927	4000...6750	32...62	125	30	DALI
901733.00X.2	L 597, B 190, H 39, HE 100	927	4050...6850	32...62	127	85	on/off
901733.00X.2.76	L 597, B 190, H 39, HE 100	927	4050...6850	32...62	127	85	DALI
901732.00X	L 597, B 190, H 39, HE 100	830	5500...9700	35...68	157	30	on/off
901732.00X.76	L 597, B 190, H 39, HE 100	830	5500...9700	35...68	157	30	DALI
901733.00X	L 597, B 190, H 39, HE 100	830	5600...9850	35...68	160	85	on/off
901733.00X.76	L 597, B 190, H 39, HE 100	830	5600...9850	35...68	160	85	DALI
901732.00X.1	L 597, B 190, H 39, HE 100	840	5600...10000	35...68	160	30	on/off
901732.00X.1.76	L 597, B 190, H 39, HE 100	840	5600...10000	35...68	160	30	DALI
901733.00X.1	L 597, B 190, H 39, HE 100	840	5700...10200	35...68	163	85	on/off
901733.00X.1.76	L 597, B 190, H 39, HE 100	840	5700...10200	35...68	163	85	DALI
Optic lenses - asymmetrical							
901734.00X.2	L 597, B 190, H 39, HE 100	927	3850...6450	32...62	120		on/off
901734.00X.2.76	L 597, B 190, H 39, HE 100	927	3850...6450	32...62	120		DALI
901734.00X	L 597, B 190, H 39, HE 100	830	5250...9250	35...68	150		on/off
901734.00X.76	L 597, B 190, H 39, HE 100	830	5250...9250	35...68	150		DALI
901734.00X.1	L 597, B 190, H 39, HE 100	840	5350...9600	35...68	153		on/off
901734.00X.1.76	L 597, B 190, H 39, HE 100	840	5350...9600	35...68	153		DALI
Lay-in luminaires for grid ceilings - for module 625							
Diffuser: plastic (PMMA), opal							
901739.00X.2	L 622, B 190, H 39, HE 100	927	3500...5850	32...62	109	112	on/off
901739.00X.2.76	L 622, B 190, H 39, HE 100	927	3500...5850	32...62	109	112	DALI
901739.00X	L 622, B 190, H 39, HE 100	830	4850...8450	35...68	139	112	on/off
901739.00X.76	L 622, B 190, H 39, HE 100	830	4850...8450	35...68	139	112	DALI
901739.00X.1	L 622, B 190, H 39, HE 100	840	4900...8750	35...68	140	112	on/off
901739.00X.1.76	L 622, B 190, H 39, HE 100	840	4900...8750	35...68	140	112	DALI
Optic lenses - symmetrical							
901736.00X.2	L 622, B 190, H 39, HE 100	927	4000...6750	32...62	125	30	on/off
901736.00X.2.76	L 622, B 190, H 39, HE 100	927	4000...6750	32...62	125	30	DALI
901737.00X.2	L 622, B 190, H 39, HE 100	927	4050...6850	32...62	127	85	on/off
901737.00X.2.76	L 622, B 190, H 39, HE 100	927	4050...6850	32...62	127	85	DALI
901736.00X	L 622, B 190, H 39, HE 100	830	5500...9700	35...68	157	30	on/off
901736.00X.76	L 622, B 190, H 39, HE 100	830	5500...9700	35...68	157	30	DALI
901737.00X	L 622, B 190, H 39, HE 100	830	5600...9850	35...68	160	85	on/off
901737.00X.76	L 622, B 190, H 39, HE 100	830	5600...9850	35...68	160	85	DALI
901736.00X.1	L 622, B 190, H 39, HE 100	840	5600...10000	35...68	160	30	on/off
901736.00X.1.76	L 622, B 190, H 39, HE 100	840	5600...10000	35...68	160	30	DALI
901737.00X.1	L 622, B 190, H 39, HE 100	840	5700...10200	35...68	163	85	on/off
901737.00X.1.76	L 622, B 190, H 39, HE 100	840	5700...10200	35...68	163	85	DALI
Optic lenses - asymmetrical							
901738.00X.2	L 622, B 190, H 39, HE 100	927	3850...6450	32...62	120		on/off
901738.00X.2.76	L 622, B 190, H 39, HE 100	927	3850...6450	32...62	120		DALI
901738.00X	L 622, B 190, H 39, HE 100	830	5250...9250	35...68	150		on/off
901738.00X.76	L 622, B 190, H 39, HE 100	830	5250...9250	35...68	150		DALI
901738.00X.1	L 622, B 190, H 39, HE 100	840	5350...9600	35...68	153		on/off
901738.00X.1.76	L 622, B 190, H 39, HE 100	840	5350...9600	35...68	153		DALI

MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Mounting frame for installation in suspended ceilings

Price Category 21

982867.00X	L 626, B 214, H 2, HE 150	two lamps, for module 600
982869.00X	L 650, B 214, H 2, HE 150	two lamps, for module 625



Comparison LED vs. conventional lamps

Optic lenses

LED 32 W ≈

2 x 28 W T16 (61 W Psys)
2 x 20 W HIT (46 W Psys)

LED 35 W ≈

2 x 35 W T16 (75 W Psys)
2 x 35 W HIT (86 W Psys)

LED 62 W ≈

3 x 28 W T16 (92 W Psys)
2 x 50 W HIT (120 W Psys)

LED 68 W ≈

4 x 35 W T16 (150 W Psys)
2 x 70 W HIT (159 W Psys)





The application image shows:
DEECOS S

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DEECOS S
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CALIDO CLICKBEAM
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ARLINE
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TX-MOVE
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492-493

BEAMLINE SLIM
490-493



DEECOS S

Surface mounted projectors

ARCHITECTURE

- **Design-oriented:** Cylindrical shape with no visible cooling fins.
- **Variable:** MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone.
- **Long service life:** High quality die-cast aluminium housing in three sizes.
- **Interchangeable:** 8 interchangeable lenses with different beam angles.
- **Individual:** Additional Superspot versions.



Further luminaires of this series, see:

Indoor lighting | Pendant luminaires
Indoor lighting | Recessed projectors

LIGHTING DESIGN

- **Standard:** Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality.
- **Anti-glare:** Black plastic ring and recessed LED to prevent glare from the side.
- **Versatile:** 7 different light colors with CRI >90 and special Food-LEDs available as standard.
- **True colours:** CRI >90 for the most realistic possible perception of colours of surroundings, objects and people.
- **Advantageous:** LED rated life 50000 h (L90/B10).
- **Optimum:** Colour tolerance within 2-steps MacAdam (2 SDCM).

INSTALLATION

- **Flexible:** Also suitable for wall mounting with circuit tracks.
- **Connected:** Versions with Casambi smart+free Bluetooth® control system for wireless network.
- **Extensive:** The following accessories can be mounted without use of tools: interchangeable lenses, decorative glasses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.





Surface mounted projectors | DEECOS S micro - Optic reflector

Type of protection: IP 20

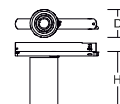
Protection class: II

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Track-in driver integrated into the adapter.
Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. With MIRO-SILVER® reflector. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 16 W ≈
1 x 20 W HIT (23 W Psys)



Surface mounted projector - Reflector spot

with multi adaptor for 3-circuit tracks 230 V

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control
742152.00X	D 60, H 110	927	1550	16	97	19	on/off
742152.00X.1	D 60, H 110	930	1700	16	107	19	on/off
742152.00X.2	D 60, H 110	940	1800	16	113	19	on/off

with DALI adapter only for RZB 3-circuit DALI track 230 V

742152.00X.76	D 60, H 110	927	1550	16	97	19	DALI
742152.00X.1.76	D 60, H 110	930	1700	16	107	19	DALI
742152.00X.2.76	D 60, H 110	940	1800	16	113	19	DALI

with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V

742152.00X.730	D 60, H 110	927	1550	16	97	19	smart+free
742152.00X.1.730	D 60, H 110	930	1700	16	107	19	smart+free
742152.00X.2.730	D 60, H 110	940	1800	16	113	19	smart+free

Price Category 21



Surface mounted projector - Reflector flood

with multi adaptor for 3-circuit tracks 230 V

742153.00X	D 60, H 110	927	1500	16	94	38	on/off
742153.00X.1	D 60, H 110	930	1650	16	104	38	on/off
742153.00X.2	D 60, H 110	940	1750	16	110	38	on/off

with DALI adapter only for RZB 3-circuit DALI track 230 V

742153.00X.76	D 60, H 110	927	1500	16	94	38	DALI
742153.00X.1.76	D 60, H 110	930	1650	16	104	38	DALI
742153.00X.2.76	D 60, H 110	940	1750	16	110	38	DALI

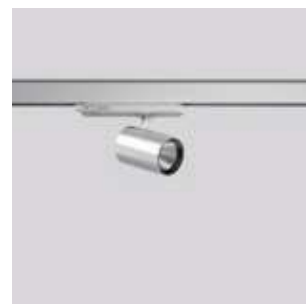
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V

742153.00X.730	D 60, H 110	927	1500	16	94	38	smart+free
742153.00X.1.730	D 60, H 110	930	1650	16	104	38	smart+free
742153.00X.2.730	D 60, H 110	940	1750	16	110	38	smart+free

Price Category 21



Accessories: Page 476



Surface mounted projectors | DEECOS S micro - Optic lens

Type of protection: IP 20

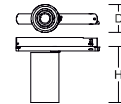
Protection class: II

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Track-in driver integrated into the adapter. Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. With optical assembly polycarbonate lens. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks, Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control
Surface mounted projector - Spot lens							
with multi adaptor for 3-circuit tracks 230 V							
742154.00X	D 60, H 110	927	1300	16	82	21	on/off
742154.00X.1	D 60, H 110	930	1450	16	91	21	on/off
742154.00X.2	D 60, H 110	940	1550	16	97	21	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742154.00X.76	D 60, H 110	927	1300	16	82	21	DALI
742154.00X.1.76	D 60, H 110	930	1450	16	91	21	DALI
742154.00X.2.76	D 60, H 110	940	1550	16	97	21	DALI
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V							
742154.00X.730	D 60, H 110	927	1300	16	82	21	smart+free
742154.00X.1.730	D 60, H 110	930	1450	16	91	21	smart+free
742154.00X.2.730	D 60, H 110	940	1550	16	97	21	smart+free

Surface mounted projector - Medium lens							
with multi adaptor for 3-circuit tracks 230 V							
742155.00X	D 60, H 110	927	1200	16	75	35	on/off
742155.00X.1	D 60, H 110	930	1300	16	82	35	on/off
742155.00X.2	D 60, H 110	940	1400	16	88	35	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742155.00X.76	D 60, H 110	927	1200	16	75	35	DALI
742155.00X.1.76	D 60, H 110	930	1300	16	82	35	DALI
742155.00X.2.76	D 60, H 110	940	1400	16	88	35	DALI
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V							
742155.00X.730	D 60, H 110	927	1200	16	75	35	smart+free
742155.00X.1.730	D 60, H 110	930	1300	16	82	35	smart+free
742155.00X.2.730	D 60, H 110	940	1400	16	88	35	smart+free

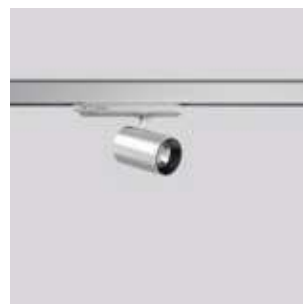
Surface mounted projector - Wide flood lens							
with multi adaptor for 3-circuit tracks 230 V							
742156.00X	D 60, H 110	927	1100	16	69	52	on/off
742156.00X.1	D 60, H 110	930	1200	16	75	52	on/off
742156.00X.2	D 60, H 110	940	1250	16	79	52	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742156.00X.76	D 60, H 110	927	1100	16	69	52	DALI
742156.00X.1.76	D 60, H 110	930	1200	16	75	52	DALI
742156.00X.2.76	D 60, H 110	940	1250	16	79	52	DALI
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V							
742156.00X.730	D 60, H 110	927	1100	16	69	52	smart+free
742156.00X.1.730	D 60, H 110	930	1200	16	75	52	smart+free
742156.00X.2.730	D 60, H 110	940	1250	16	79	52	smart+free

Comparison LED vs. conventional lamps

LED 16 W ≈

1 x 20 W HIT (23 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



Accessories: Page 476



Surface mounted projectors | DEECOS S mini track-in - Optic reflector

Type of protection: IP 20

Protection class: II

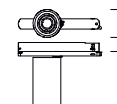
Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Track-in driver integrated into the adapter.
Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. With MIRO-SILVER® reflector. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 20 W ≈
1 x 35 W HIT (43 W Psys)

LED 29 W ≈
1 x 50 W HIT (56 W Psys)

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Surface mounted projector - Reflector spot							Price Category 21
with multi adaptor for 3-circuit tracks 230 V							
742250.00X	D 87, H 135	930	2450	20	123	18	on/off
742250.00X.1	D 87, H 135	940	2550	20	128	18	on/off
742258.00X	D 87, H 135	930	3500	29	121	18	on/off
742258.00X.1	D 87, H 135	940	3550	29	123	18	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742250.00X.76	D 87, H 135	930	2450	20	123	18	DALI
742250.00X.1.76	D 87, H 135	940	2550	20	128	18	DALI
742258.00X.76	D 87, H 135	930	3500	29	121	18	DALI
742258.00X.1.76	D 87, H 135	940	3550	29	123	18	DALI
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V							
742250.00X.730	D 87, H 135	930	2450	20	123	18	smart+free
742250.00X.1.730	D 87, H 135	940	2550	20	128	18	smart+free
742258.00X.730	D 87, H 135	930	3500	29	121	18	smart+free
742258.00X.1.730	D 87, H 135	940	3550	29	123	18	smart+free
Surface mounted projector - Reflector medium							Price Category 21
with multi adaptor for 3-circuit tracks 230 V							
742251.00X	D 87, H 135	930	2400	20	120	31	on/off
742251.00X.1	D 87, H 135	940	2450	20	123	31	on/off
742259.00X	D 87, H 135	930	3350	29	116	31	on/off
742259.00X.1	D 87, H 135	940	3500	29	121	31	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742251.00X.76	D 87, H 135	930	2400	20	120	31	DALI
742251.00X.1.76	D 87, H 135	940	2450	20	123	31	DALI
742259.00X.76	D 87, H 135	930	3350	29	116	31	DALI
742259.00X.1.76	D 87, H 135	940	3500	29	121	31	DALI
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V							
742251.00X.730	D 87, H 135	930	2400	20	120	31	smart+free
742251.00X.1.730	D 87, H 135	940	2450	20	123	31	smart+free
742259.00X.730	D 87, H 135	930	3350	29	116	31	smart+free
742259.00X.1.730	D 87, H 135	940	3500	29	121	31	smart+free
Surface mounted projector - Reflector wide flood							Price Category 21
with multi adaptor for 3-circuit tracks 230 V							
742252.00X	D 87, H 135	930	2450	20	123	60	on/off
742252.00X.1	D 87, H 135	940	2550	20	128	60	on/off
742260.00X	D 87, H 135	930	3500	29	121	60	on/off
742260.00X.1	D 87, H 135	940	3650	29	126	60	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742252.00X.76	D 87, H 135	930	2450	20	123	60	DALI
742252.00X.1.76	D 87, H 135	940	2550	20	128	60	DALI
742260.00X.76	D 87, H 135	930	3500	29	121	60	DALI
742260.00X.1.76	D 87, H 135	940	3650	29	126	60	DALI
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V							
742252.00X.730	D 87, H 135	930	2450	20	123	60	smart+free
742252.00X.1.730	D 87, H 135	940	2550	20	128	60	smart+free
742260.00X.730	D 87, H 135	930	3500	29	121	60	smart+free
742260.00X.1.730	D 87, H 135	940	3650	29	126	60	smart+free



Accessories: Page 477

Surface mounted projectors | DEECOS S mini track-in - Optic lens

Type of protection: IP 20

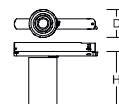
Protection class: II

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Track-in driver integrated into the adapter.
 Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. With optical assembly polycarbonate lens. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Surface mounted projector - Spot lens							
with multi adaptor for 3-circuit tracks 230 V							
742253.00X	D 87, H 135	930	2150	20	108	20	on/off
742253.00X.1	D 87, H 135	940	2250	20	113	20	on/off
742261.00X	D 87, H 135	930	3050	29	106	20	on/off
742261.00X.1	D 87, H 135	940	3200	29	111	20	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742253.00X.76	D 87, H 135	930	2150	20	108	20	DALI
742253.00X.1.76	D 87, H 135	940	2250	20	113	20	DALI
742261.00X.76	D 87, H 135	930	3050	29	106	20	DALI
742261.00X.1.76	D 87, H 135	940	3200	29	111	20	DALI
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V							
742253.00X.730	D 87, H 135	930	2150	20	108	20	smart+free
742253.00X.1.730	D 87, H 135	940	2250	20	113	20	smart+free
742261.00X.730	D 87, H 135	930	3050	29	106	20	smart+free
742261.00X.1.730	D 87, H 135	940	3200	29	111	20	smart+free

Surface mounted projector - Medium lens							
with multi adaptor for 3-circuit tracks 230 V							
742254.00X	D 87, H 135	930	2050	20	103	31	on/off
742254.00X.1	D 87, H 135	940	2100	20	105	31	on/off
742262.00X	D 87, H 135	930	2900	29	100	31	on/off
742262.00X.1	D 87, H 135	940	3050	29	106	31	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742254.00X.76	D 87, H 135	930	2050	20	103	31	DALI
742254.00X.1.76	D 87, H 135	940	2100	20	105	31	DALI
742262.00X.76	D 87, H 135	930	2900	29	100	31	DALI
742262.00X.1.76	D 87, H 135	940	3050	29	106	31	DALI
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V							
742254.00X.730	D 87, H 135	930	2050	20	103	31	smart+free
742254.00X.1.730	D 87, H 135	940	2100	20	105	31	smart+free
742262.00X.730	D 87, H 135	930	2900	29	100	31	smart+free
742262.00X.1.730	D 87, H 135	940	3050	29	106	31	smart+free

Surface mounted projector - Flood lens							
with multi adaptor for 3-circuit tracks 230 V							
742255.00X	D 87, H 135	930	1900	20	95	44	on/off
742255.00X.1	D 87, H 135	940	2000	20	100	44	on/off
742263.00X	D 87, H 135	930	2750	29	95	44	on/off
742263.00X.1	D 87, H 135	940	2850	29	99	44	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742255.00X.76	D 87, H 135	930	1900	20	95	44	DALI
742255.00X.1.76	D 87, H 135	940	2000	20	100	44	DALI
742263.00X.76	D 87, H 135	930	2750	29	95	44	DALI
742263.00X.1.76	D 87, H 135	940	2850	29	99	44	DALI
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V							
742255.00X.730	D 87, H 135	930	1900	20	95	44	smart+free
742255.00X.1.730	D 87, H 135	940	2000	20	100	44	smart+free
742263.00X.730	D 87, H 135	930	2750	29	95	44	smart+free
742263.00X.1.730	D 87, H 135	940	2850	29	99	44	smart+free

Surface mounted projector - Extra wide flood lens							
with multi adaptor for 3-circuit tracks 230 V							
742256.00X	D 87, H 135	930	2200	20	110	72	on/off
742256.00X.1	D 87, H 135	940	2300	20	115	72	on/off
742264.00X	D 87, H 135	930	3100	29	107	72	on/off
742264.00X.1	D 87, H 135	940	3250	29	113	72	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742256.00X.76	D 87, H 135	930	2200	20	110	72	DALI
742256.00X.1.76	D 87, H 135	940	2300	20	115	72	DALI
742264.00X.76	D 87, H 135	930	3100	29	107	72	DALI
742264.00X.1.76	D 87, H 135	940	3250	29	113	72	DALI
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V							
742256.00X.730	D 87, H 135	930	2200	20	110	72	smart+free
742256.00X.1.730	D 87, H 135	940	2300	20	115	72	smart+free
742264.00X.730	D 87, H 135	930	3100	29	107	72	smart+free
742264.00X.1.730	D 87, H 135	940	3250	29	113	72	smart+free

Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 35 W HIT (43 W Psys)

LED 29 W ≈

1 x 50 W HIT (56 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



Accessories: Page 477



Surface mounted projectors | DEECOS S mini track-in - Oval corridor optic lens

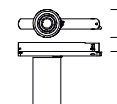
Type of protection: IP 20
Protection class: II
Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Track-in driver integrated into the adapter. Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. With optical assembly polycarbonate lens. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 20 W ≈
1 x 20 W HIT (23 W Psys)

LED 29 W ≈
1 x 35 W HIT (43 W Psys)

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Surface mounted projector - Oval corridor lens							
with multi adaptor for 3-circuit tracks 230 V							
742257.00X	D 87, H 135	930	1850	20	93	40/28	on/off
742257.00X.1	D 87, H 135	940	1950	20	98	40/28	on/off
742265.00X	D 87, H 135	930	2650	29	92	40/28	on/off
742265.00X.1	D 87, H 135	940	2750	29	95	40/28	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742257.00X.76	D 87, H 135	930	1850	20	93	40/28	DALI
742257.00X.1.76	D 87, H 135	940	1950	20	98	40/28	DALI
742265.00X.76	D 87, H 135	930	2650	29	92	40/28	DALI
742265.00X.1.76	D 87, H 135	940	2750	29	95	40/28	DALI
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V							
742257.00X.730	D 87, H 135	930	1850	20	93	40/28	smart+free
742257.00X.1.730	D 87, H 135	940	1950	20	98	40/28	smart+free
742265.00X.730	D 87, H 135	930	2650	29	92	40/28	smart+free
742265.00X.1.730	D 87, H 135	940	2750	29	95	40/28	smart+free



Price Category 21



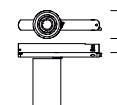
Surface mounted projectors | DEECOS S mini track-in - Superspot optic lens

Type of protection: IP 20
Protection class: II
Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Track-in driver integrated into the adapter. Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. With optical assembly polycarbonate lens and small spot LED. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 22 W ≈
1 x 35 W HIT (43 W Psys)

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Surface mounted projector - Superspot lens							
with multi adaptor for 3-circuit tracks 230 V							
742249.00X	D 87, H 135	930	1900	22	87	15	on/off
742249.00X.1	D 87, H 135	940	2100	22	96	15	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742249.00X.76	D 87, H 135	930	1900	22	87	15	DALI
742249.00X.1.76	D 87, H 135	940	2100	22	96	15	DALI
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V							
742249.00X.730	D 87, H 135	930	1900	22	87	15	smart+free
742249.00X.1.730	D 87, H 135	940	2100	22	96	15	smart+free



Price Category 21

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



Accessories: Page 477



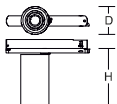
Surface mounted projectors | DEECOS S mini track-in - Superspot optic reflector

Type of protection: IP 20
 Protection class: II
 Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Track-in driver integrated into the adapter. Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. With MIRO-SILVER® reflector and small spot LED. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control	Price Category 21
Surface mounted projector - Reflector superspot								
with multi adaptor for 3-circuit tracks 230 V								
742248.00X	D 87, H 135	930	2150	22	98	13	on/off	
742248.00X.1	D 87, H 135	940	2350	22	107	13	on/off	
with DALI adapter only for RZB 3-circuit DALI track 230 V								
742248.00X.76	D 87, H 135	930	2150	22	98	13	DALI	
742248.00X.1.76	D 87, H 135	940	2350	22	107	13	DALI	
with Casambi smart+free multi-adapter for 3-phase conductor rails 230 V								
742248.00X.730	D 87, H 135	930	2150	22	98	13	smart+free	
742248.00X.1.730	D 87, H 135	940	2350	22	107	13	smart+free	

Comparison
LED vs. conventional lamps

LED 22 W ≈
 1 x 35 W HIT (43 W Psys)



Accessories: Page 477



The application image shows:
DEECOS S



Surface mounted projectors | DEECOS S mini - Optic reflector

Type of protection: IP 20

Protection class: I

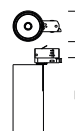
Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°.

Heat resistant plastic ring black. With MIRO-SILVER® reflector. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 35 W HIT (43 W Psys)

LED 29 W ≈

1 x 50 W HIT (56 W Psys)



Surface mounted projector - Reflector spot

Price Category 21

with multi adaptor for 3-circuit tracks 230 V

742195.00X	D 87, H 214	930	2450	20	123	18	on/off
742195.00X.1	D 87, H 214	940	2550	20	128	18	on/off
742203.00X	D 87, H 214	930	3500	29	121	18	on/off
742203.00X.1	D 87, H 214	940	3550	29	123	18	on/off

with DALI adapter only for RZB 3-circuit DALI track 230 V

742195.00X.76	D 87, H 214	930	2450	20	123	18	DALI
742195.00X.1.76	D 87, H 214	940	2550	20	128	18	DALI
742203.00X.76	D 87, H 214	930	3500	29	121	18	DALI
742203.00X.1.76	D 87, H 214	940	3550	29	123	18	DALI



Surface mounted projector - Reflector medium

Price Category 21

with multi adaptor for 3-circuit tracks 230 V

742196.00X	D 87, H 214	930	2400	20	120	31	on/off
742196.00X.1	D 87, H 214	940	2450	20	123	31	on/off
742204.00X	D 87, H 214	930	3350	29	116	31	on/off
742204.00X.1	D 87, H 214	940	3500	29	121	31	on/off

with DALI adapter only for RZB 3-circuit DALI track 230 V

742196.00X.76	D 87, H 214	930	2400	20	120	31	DALI
742196.00X.1.76	D 87, H 214	940	2450	20	123	31	DALI
742204.00X.76	D 87, H 214	930	3350	29	116	31	DALI
742204.00X.1.76	D 87, H 214	940	3500	29	121	31	DALI



Surface mounted projector - Reflector wide flood

Price Category 21

with multi adaptor for 3-circuit tracks 230 V

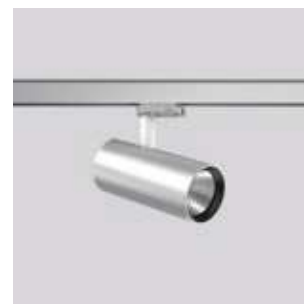
742197.00X	D 87, H 214	930	2450	20	123	60	on/off
742197.00X.1	D 87, H 214	940	2550	20	128	60	on/off
742205.00X	D 87, H 214	930	3500	29	121	60	on/off
742205.00X.1	D 87, H 214	940	3650	29	126	60	on/off

with DALI adapter only for RZB 3-circuit DALI track 230 V

742197.00X.76	D 87, H 214	930	2450	20	123	60	DALI
742197.00X.1.76	D 87, H 214	940	2550	20	128	60	DALI
742205.00X.76	D 87, H 214	930	3500	29	121	60	DALI
742205.00X.1.76	D 87, H 214	940	3650	29	126	60	DALI



Accessories: Page 477



Surface mounted projectors | DEECOS S mini - Optic lens

Type of protection: IP 20

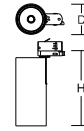
Protection class: I

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°.

Heat resistant plastic ring black. With optical assembly polycarbonate lens. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency# [lm/W]	α [°]	Lighting control
Surface mounted projector - Spot lens							
with multi adaptor for 3-circuit tracks 230 V							
742198.00X	D 87, H 214	930	2150	20	108	20	on/off
742198.00X.1	D 87, H 214	940	2250	20	113	20	on/off
742206.00X	D 87, H 214	930	3050	29	106	20	on/off
742206.00X.1	D 87, H 214	940	3200	29	111	20	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742198.00X.76	D 87, H 214	930	2150	20	108	20	DALI
742198.00X.1.76	D 87, H 214	940	2250	20	113	20	DALI
742206.00X.76	D 87, H 214	930	3050	29	106	20	DALI
742206.00X.1.76	D 87, H 214	940	3200	29	111	20	DALI

Price Category 21

Surface mounted projector - Medium lens							
with multi adaptor for 3-circuit tracks 230 V							
742199.00X	D 87, H 214	930	2050	20	103	31	on/off
742199.00X.1	D 87, H 214	940	2100	20	105	31	on/off
742207.00X	D 87, H 214	930	2900	29	100	31	on/off
742207.00X.1	D 87, H 214	940	3050	29	106	31	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742199.00X.76	D 87, H 214	930	2050	20	103	31	DALI
742199.00X.1.76	D 87, H 214	940	2100	20	105	31	DALI
742207.00X.76	D 87, H 214	930	2900	29	100	31	DALI
742207.00X.1.76	D 87, H 214	940	3050	29	106	31	DALI

Price Category 21

Surface mounted projector - Flood lens							
with multi adaptor for 3-circuit tracks 230 V							
742200.00X	D 87, H 214	930	1900	20	95	44	on/off
742200.00X.1	D 87, H 214	940	2000	20	100	44	on/off
742208.00X	D 87, H 214	930	2750	29	95	44	on/off
742208.00X.1	D 87, H 214	940	2850	29	99	44	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742200.00X.76	D 87, H 214	930	1900	20	95	44	DALI
742200.00X.1.76	D 87, H 214	940	2000	20	100	44	DALI
742208.00X.76	D 87, H 214	930	2750	29	95	44	DALI
742208.00X.1.76	D 87, H 214	940	2850	29	99	44	DALI

Price Category 21

Surface mounted projector - Extra wide flood lens							
with multi adaptor for 3-circuit tracks 230 V							
742201.00X	D 87, H 214	930	2200	20	110	72	on/off
742201.00X.1	D 87, H 214	940	2300	20	115	72	on/off
742209.00X	D 87, H 214	930	3100	29	107	72	on/off
742209.00X.1	D 87, H 214	940	3250	29	113	72	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742201.00X.76	D 87, H 214	930	2200	20	110	72	DALI
742201.00X.1.76	D 87, H 214	940	2300	20	115	72	DALI
742209.00X.76	D 87, H 214	930	3100	29	107	72	DALI
742209.00X.1.76	D 87, H 214	940	3250	29	113	72	DALI

Price Category 21



Accessories: Page 477



Surface mounted projectors | DEECOS S mini - Oval corridor optic lens

Type of protection: IP 20

Protection class: I

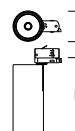
Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°.

Heat resistant plastic ring black. With optical assembly polycarbonate lens. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 20 W HIT (23 W Psys)

LED 29 W ≈

1 x 35 W HIT (43 W Psys)



Surface mounted projector - Oval corridor lens

with multi adaptor for 3-circuit tracks 230 V

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control
742202.00X	D 87, H 214	930	1850	20	93	40/28	on/off
742202.00X.1	D 87, H 214	940	1950	20	98	40/28	on/off
742210.00X	D 87, H 214	930	2650	29	92	40/28	on/off
742210.00X.1	D 87, H 214	940	2750	29	95	40/28	on/off

with DALI adapter only for RZB 3-circuit DALI track 230 V

742202.00X.76	D 87, H 214	930	1850	20	93	40/28	DALI
742202.00X.1.76	D 87, H 214	940	1950	20	98	40/28	DALI
742210.00X.76	D 87, H 214	930	2650	29	92	40/28	DALI
742210.00X.1.76	D 87, H 214	940	2750	29	95	40/28	DALI

Price Category 21



Surface mounted projectors | DEECOS S mini - Superspot optic lens

Type of protection: IP 20

Protection class: I

Impact protection: IK06

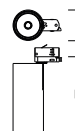
Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°.

Heat resistant plastic ring black. With optical assembly polycarbonate lens and small spot LED.

With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks.

Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver



Comparison LED vs. conventional lamps

LED 22 W ≈

1 x 35 W HIT (43 W Psys)



Surface mounted projector - Superspot lens

with multi adaptor for 3-circuit tracks 230 V

742194.00X	D 87, H 214	930	1900	22	87	15	on/off
742194.00X.1	D 87, H 214	940	2100	22	96	15	on/off

with DALI adapter only for RZB 3-circuit DALI track 230 V

742194.00X.76	D 87, H 214	930	1900	22	87	15	DALI
742194.00X.1.76	D 87, H 214	940	2100	22	96	15	DALI

Price Category 21

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



Accessories: Page 477

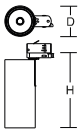


Surface mounted projectors | DEECOS S mini - Superspot optic reflector

Type of protection: IP 20
 Protection class: I
 Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. With MIRO-SILVER® reflector and small spot LED. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control	Price Category 21
Surface mounted projector - Reflector superspot with multi adaptor for 3-circuit tracks 230 V								
742193.00X	D 87, H 214	930	2150	22	98	13	on/off	
742193.00X.1	D 87, H 214	940	2350	22	107	13	on/off	
with DALI adapter only for RZB 3-circuit DALI track 230 V								
742193.00X.76	D 87, H 214	930	2150	22	98	13	DALI	
742193.00X.1.76	D 87, H 214	940	2350	22	107	13	DALI	

Comparison
LED vs. conventional lamps

LED 22 W ≈
 1 x 35 W HIT (43 W Psys)



Accessories: Page 477



The application image shows:
DEECOS S



Surface mounted projectors | DEECOS S maxi - Optic reflector

Type of protection: IP 20

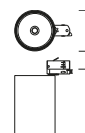
Protection class: I

Impact protection: IK06

Housing: die-cast aluminium, powder-coated, Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. With MIRO-SILVER® reflector. With multi-adaptor for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver

With system power 25 W and 35 W, light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com

Comparison
LED vs. conventional lamps

LED 25 W ≈

1 x 35 W HIT (43 W Psys)

LED 35 W ≈

1 x 50 W HIT (56 W Psys)

LED 43 W ≈

1 x 70 W HIT (84 W Psys)



Surface mounted projector - Reflector spot

with multi adaptor for 3-circuit tracks 230 V

Price Category 21

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
742213.00X	D 123, H 200	930	3050	25	122	12	on/off
742213.00X.1	D 123, H 200	940	3200	25	128	12	on/off
742220.00X	D 123, H 200	930	4000	35	115	12	on/off
742220.00X.1	D 123, H 200	940	4200	35	120	12	on/off
742180.00X	D 123, H 200	930	5050	43	118	17	on/off
742180.00X.1	D 123, H 200	940	5400	43	126	17	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742213.00X.76	D 123, H 200	930	3050	25	122	12	DALI
742213.00X.1.76	D 123, H 200	940	3200	25	128	12	DALI
742220.00X.76	D 123, H 200	930	4000	35	115	12	DALI
742220.00X.1.76	D 123, H 200	940	4200	35	120	12	DALI
742180.00X.76	D 123, H 200	930	5050	43	118	17	DALI
742180.00X.1.76	D 123, H 200	940	5400	43	126	17	DALI



Surface mounted projector - Reflector medium

with multi adaptor for 3-circuit tracks 230 V

Price Category 21

742214.00X	D 123, H 200	930	3150	25	126	21	on/off
742214.00X.1	D 123, H 200	940	3300	25	132	21	on/off
742221.00X	D 123, H 200	930	4200	35	120	21	on/off
742221.00X.1	D 123, H 200	940	4300	35	123	21	on/off
742181.00X	D 123, H 200	930	5100	43	119	24	on/off
742181.00X.1	D 123, H 200	940	5500	43	128	24	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742214.00X.76	D 123, H 200	930	3150	25	126	21	DALI
742214.00X.1.76	D 123, H 200	940	3300	25	132	21	DALI
742221.00X.76	D 123, H 200	930	4200	35	120	21	DALI
742221.00X.1.76	D 123, H 200	940	4300	35	123	21	DALI
742181.00X.76	D 123, H 200	930	5100	43	119	24	DALI
742181.00X.1.76	D 123, H 200	940	5500	43	128	24	DALI



Surface mounted projector - Reflector flood

with multi adaptor for 3-circuit tracks 230 V

Price Category 21

742215.00X	D 123, H 200	930	3150	25	126	33	on/off
742215.00X.1	D 123, H 200	940	3350	25	134	33	on/off
742222.00X	D 123, H 200	930	4200	35	120	33	on/off
742222.00X.1	D 123, H 200	940	4350	35	125	33	on/off
742182.00X	D 123, H 200	930	4950	43	116	38	on/off
742182.00X.1	D 123, H 200	940	5300	43	124	38	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742215.00X.76	D 123, H 200	930	3150	25	126	33	DALI
742215.00X.1.76	D 123, H 200	940	3350	25	134	33	DALI
742222.00X.76	D 123, H 200	930	4200	35	120	33	DALI
742222.00X.1.76	D 123, H 200	940	4350	35	125	33	DALI
742182.00X.76	D 123, H 200	930	4950	43	116	38	DALI
742182.00X.1.76	D 123, H 200	940	5300	43	124	38	DALI



Surface mounted projector - Reflector wide flood

with multi adaptor for 3-circuit tracks 230 V

Price Category 21

742216.00X	D 123, H 200	930	3050	25	122	65	on/off
742216.00X.1	D 123, H 200	940	3200	25	128	65	on/off
742223.00X	D 123, H 200	930	3950	35	113	65	on/off
742223.00X.1	D 123, H 200	940	4200	35	120	65	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742216.00X.76	D 123, H 200	930	3050	25	122	65	DALI
742216.00X.1.76	D 123, H 200	940	3200	25	128	65	DALI
742223.00X.76	D 123, H 200	930	3950	35	113	65	DALI
742223.00X.1.76	D 123, H 200	940	4200	35	120	65	DALI



Accessories: Page 478

Surface mounted projectors | DEECOS S maxi - Optic lens

Type of protection: IP 20

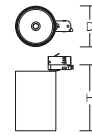
Protection class: I


Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. With optical assembly polycarbonate lens. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver

With system power 25 W and 35 W, light colours 927 and 935 also available as standard articles - see www.rzb-lighting.com



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	Lighting control
Surface mounted projector - Spot lens							
with multi adaptor for 3-circuit tracks 230 V							
742217.00X	D 123, H 200	930	2700	25	108	13	on/off
742217.00X.1	D 123, H 200	940	2800	25	112	13	on/off
742224.00X	D 123, H 200	930	3500	35	100	13	on/off
742224.00X.1	D 123, H 200	940	3700	35	106	13	on/off
742183.00X	D 123, H 200	930	4050	43	95	18	on/off
742183.00X.1	D 123, H 200	940	4350	43	102	18	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742217.00X.76	D 123, H 200	930	2700	25	108	13	DALI
742217.00X.1.76	D 123, H 200	940	2800	25	112	13	DALI
742224.00X.76	D 123, H 200	930	3500	35	100	13	DALI
742224.00X.1.76	D 123, H 200	940	3700	35	106	13	DALI
742183.00X.76	D 123, H 200	930	4050	43	95	18	DALI
742183.00X.1.76	D 123, H 200	940	4350	43	102	18	DALI

Surface mounted projector - Medium lens							
with multi adaptor for 3-circuit tracks 230 V							
742218.00X	D 123, H 200	930	2600	25	104	31	on/off
742218.00X.1	D 123, H 200	940	2700	25	108	31	on/off
742225.00X	D 123, H 200	930	3400	35	98	31	on/off
742225.00X.1	D 123, H 200	940	3550	35	102	31	on/off
742184.00X	D 123, H 200	930	3950	43	92	37	on/off
742184.00X.1	D 123, H 200	940	4250	43	99	37	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742218.00X.76	D 123, H 200	930	2600	25	104	31	DALI
742218.00X.1.76	D 123, H 200	940	2700	25	108	31	DALI
742225.00X.76	D 123, H 200	930	3400	35	98	31	DALI
742225.00X.1.76	D 123, H 200	940	3550	35	102	31	DALI
742184.00X.76	D 123, H 200	930	3950	43	92	37	DALI
742184.00X.1.76	D 123, H 200	940	4250	43	99	37	DALI

Surface mounted projector - Flood lens							
with multi adaptor for 3-circuit tracks 230 V							
742219.00X	D 123, H 200	930	2650	25	106	42	on/off
742219.00X.1	D 123, H 200	940	2800	25	112	42	on/off
742226.00X	D 123, H 200	930	3450	35	99	42	on/off
742226.00X.1	D 123, H 200	940	3650	35	105	42	on/off
742185.00X	D 123, H 200	930	4150	43	97	45	on/off
742185.00X.1	D 123, H 200	940	4500	43	105	45	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742219.00X.76	D 123, H 200	930	2650	25	106	42	DALI
742219.00X.1.76	D 123, H 200	940	2800	25	112	42	DALI
742226.00X.76	D 123, H 200	930	3450	35	99	42	DALI
742226.00X.1.76	D 123, H 200	940	3650	35	105	42	DALI
742185.00X.76	D 123, H 200	930	4150	43	97	45	DALI
742185.00X.1.76	D 123, H 200	940	4500	43	105	45	DALI

Comparison LED vs. conventional lamps

LED 25 W ≈

1 x 35 W HIT (43 W Psys)

LED 35 W ≈

1 x 50 W HIT (56 W Psys)

LED 43 W ≈

1 x 70 W HIT (84 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



Accessories: Page 478



The application image shows:
DEECOS S

© Linus Linther

Surface mounted projectors | DEECOS S maxi - Superspot optic reflector

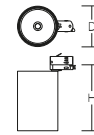
Type of protection: IP 20

Protection class: I

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. With MIRO-SILVER® reflector and small spot LED. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Surface mounted projector - Reflector superspot with multi adaptor for 3-circuit tracks 230 V							Price Category 21
742211.00X	D 123, H 200	930	2150	22	98	9	on/off
742211.00X.1	D 123, H 200	940	2300	22	105	9	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742211.00X.76	D 123, H 200	930	2150	22	98	9	DALI
742211.00X.1.76	D 123, H 200	940	2300	22	105	9	DALI

Comparison LED vs. conventional lamps

LED 22 W ≈

1 x 35 W HIT (43 W Psys)

Surface mounted projectors | DEECOS S maxi - Superspot optic lens

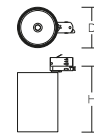
Type of protection: IP 20

Protection class: I

Impact protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. With optical assembly polycarbonate lens and small spot LED. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Surface mounted projector - Superspot lens with multi adaptor for 3-circuit tracks 230 V							Price Category 21
742212.00X	D 123, H 200	930	1850	22	85	10	on/off
742212.00X.1	D 123, H 200	940	2050	22	94	10	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742212.00X.76	D 123, H 200	930	1850	22	85	10	DALI
742212.00X.1.76	D 123, H 200	940	2050	22	94	10	DALI

Comparison LED vs. conventional lamps

LED 22 W ≈

1 x 35 W HIT (43 W Psys)

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



Accessories: Page 478



Surface mounted projectors | DEECOS S maxi - Food optic reflector

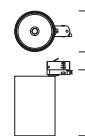
Type of protection: IP 20

Protection class: I

Impact protection: IK06


Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. With MIRO-SILVER® reflector and special food LED. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver



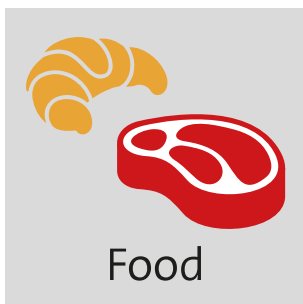
Food LED light colours show food in its best light:

- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	Lighting control
Surface mounted projector - Reflector spot							Price Category 21
with multi adaptor for 3-circuit tracks 230 V							
742241.00X.2	D 123, H 200	bakery	3300	33	100	17	on/off
742227.00X	D 123, H 200	fresh meat	2100	33	64	17	on/off
742234.00X	D 123, H 200	meat +	2200	33	67	17	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742241.00X.2.76	D 123, H 200	bakery	3300	33	100	17	DALI
742227.00X.76	D 123, H 200	fresh meat	2100	33	64	17	DALI
742234.00X.76	D 123, H 200	meat +	2200	33	67	17	DALI
Surface mounted projector - Reflector medium							Price Category 21
with multi adaptor for 3-circuit tracks 230 V							
742242.00X.2	D 123, H 200	bakery	3400	33	104	23	on/off
742228.00X	D 123, H 200	fresh meat	2150	33	66	23	on/off
742235.00X	D 123, H 200	meat +	2250	33	69	23	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742242.00X.2.76	D 123, H 200	bakery	3400	33	104	23	DALI
742228.00X.76	D 123, H 200	fresh meat	2150	33	66	23	DALI
742235.00X.76	D 123, H 200	meat +	2250	33	69	23	DALI
Surface mounted projector - Reflector flood							Price Category 21
with multi adaptor for 3-circuit tracks 230 V							
742243.00X.2	D 123, H 200	bakery	3450	33	105	33	on/off
742229.00X	D 123, H 200	fresh meat	2150	33	66	33	on/off
742236.00X	D 123, H 200	meat +	2250	33	69	33	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742243.00X.2.76	D 123, H 200	bakery	3450	33	105	33	DALI
742229.00X.76	D 123, H 200	fresh meat	2150	33	66	33	DALI
742236.00X.76	D 123, H 200	meat +	2250	33	69	33	DALI
Surface mounted projector - Reflector wide flood							Price Category 21
with multi adaptor for 3-circuit tracks 230 V							
742244.00X.2	D 123, H 200	bakery	3300	33	100	67	on/off
742230.00X	D 123, H 200	fresh meat	2050	33	63	67	on/off
742237.00X	D 123, H 200	meat +	2150	33	66	67	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
742244.00X.2.76	D 123, H 200	bakery	3300	33	100	67	DALI
742230.00X.76	D 123, H 200	fresh meat	2050	33	63	67	DALI
742237.00X.76	D 123, H 200	meat +	2150	33	66	67	DALI



Accessories: Page 478



Surface mounted projectors | DEECOS S maxi - Food optic lens

Type of protection: IP 20

Protection class: I

Impact protection: IK06

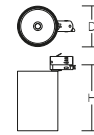
Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°.

Heat resistant plastic ring black. With optical assembly polycarbonate lens and special food LED.

With multi-adaptor for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks.

Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver



Food LED light colours show food in its best light:

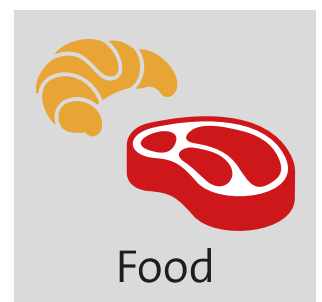
- **bakery** (golden yellow): Baked goods look fresher and the colours are more intense
- **fresh meat** (reddish white): Fresh presentation of sausages and meat, white parts remain white
- **meat +** (intense red): The red colour of sausages and meat is highlighted

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control	Price Category 21
Surface mounted projector - Spot lens								
with multi adaptor for 3-circuit tracks 230 V								
742245.00X.2	D 123, H 200	bakery	2950	33	90	17	on/off	
742231.00X	D 123, H 200	fresh meat	1800	33	55	17	on/off	
742238.00X	D 123, H 200	meat +	1900	33	58	17	on/off	
with DALI adapter only for RZB 3-circuit DALI track 230 V								
742245.00X.2.76	D 123, H 200	bakery	2950	33	90	17	DALI	
742231.00X.76	D 123, H 200	fresh meat	1800	33	55	17	DALI	
742238.00X.76	D 123, H 200	meat +	1900	33	58	17	DALI	
Surface mounted projector - Medium lens								
with multi adaptor for 3-circuit tracks 230 V								
742246.00X.2	D 123, H 200	bakery	2850	33	87	35	on/off	
742232.00X	D 123, H 200	fresh meat	1750	33	54	35	on/off	
742239.00X	D 123, H 200	meat +	1850	33	57	35	on/off	
with DALI adapter only for RZB 3-circuit DALI track 230 V								
742246.00X.2.76	D 123, H 200	bakery	2850	33	87	35	DALI	
742232.00X.76	D 123, H 200	fresh meat	1750	33	54	35	DALI	
742239.00X.76	D 123, H 200	meat +	1850	33	57	35	DALI	
Surface mounted projector - Flood lens								
with multi adaptor for 3-circuit tracks 230 V								
742247.00X.2	D 123, H 200	bakery	2900	33	88	44	on/off	
742233.00X	D 123, H 200	fresh meat	1800	33	55	44	on/off	
742240.00X	D 123, H 200	meat +	1900	33	58	44	on/off	
with DALI adapter only for RZB 3-circuit DALI track 230 V								
742247.00X.2.76	D 123, H 200	bakery	2900	33	88	44	DALI	
742233.00X.76	D 123, H 200	fresh meat	1800	33	55	44	DALI	
742240.00X.76	D 123, H 200	meat +	1900	33	58	44	DALI	



Accessories: Page 478





Accessories | DEECOS S micro



Diffuser			Price Category 21
982802.000	D 49, H 3	Safety glass, clear.	
982802.010	D 49, H 3	Safety glass, satin finish.	



Anti-glare honeycomb louvre			Price Category 21
982801.003	D 51, H 3	Aluminium, anodised matt black.	



Interchangeable plastic rings			Price Category 21
982806.002	D 57, H 16	White plastic ring for reflector.	
982807.002	D 57, H 16	White plastic ring for lens.	

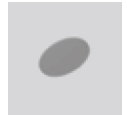


Interchangeable optics			Price Category 21
982804.003	D 57, H 34	Spot lens, narrow beam	
982804.013	D 57, H 34	Medium lens, medium beam	
982804.023	D 57, H 34	Flood lens, wide beam	
982805.003	D 57, H 34	Lens with oval light distribution for corridor	
982803.003	D 57, H 34	Reflector spot, narrow beam	
982803.013	D 57, H 34	Reflector flood, wide beam	

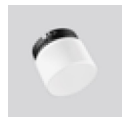
**Accessories | DEECOS S mini track-in
DEECOS S mini**

Diffuser
Price Category 21

982370.000	D 74, H 3	Safety glass, clear.
982370.010	D 74, H 3	Safety glass, satin finish.


Decorative glasses
Price Category 21

982647.002	D 87, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.
982648.002	D 87, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.


Anti-glare honeycomb louvre
Price Category 21

982371.003	D 74, H 3	Aluminium, anodised matt black.
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Interchangeable plastic rings
Price Category 21

982419.002	D 82, H 20	White plastic ring for reflector.
982421.002	D 82, H 31	White plastic ring for lens.


Interchangeable optics
Price Category 21

982368.003	D 82, H 55	Reflector spot, narrow beam
982368.013	D 82, H 55	Reflector medium, medium beam
982368.023	D 82, H 55	Reflector flood, wide beam
982368.033	D 82, H 55	Reflector wide flood, very wide beam
982369.003	D 82, H 55	Spot lens, narrow beam
982369.013	D 82, H 55	Medium lens, medium beam
982369.023	D 82, H 55	Flood lens, wide beam
982369.033	D 82, H 55	Extra wide flood lens, extremely wide beam
982369.043	D 82, H 55	Lens with oval light distribution for corridor


Point outlet for 3-circuit multi adaptor

Type of protection: IP 20

Protection class: I

 Housing: plastic. Cable inlets: break-off (one inlet on the side, three on the back).
250 V/10 A, F max. 50 N [5 kg].

Available colours (X): 2 = white, 3 = black, 9 = grey


Surface mounted point outlet
Price Category 21

70319.00X	D 100, H 32
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Not suitable for versions with track-in converter and DALI integrated in the adaptor.

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



Accessories | DEECOS S maxi



Diffuser			Price Category 21
982374.000	D 111, H 3	Safety glass, clear.	
982374.010	D 111, H 3	Safety glass, satin finish.	



Decorative glasses			Price Category 21
982649.002	D 123, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.	
982650.002	D 123, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.	



Anti-glare honeycomb louvre			Price Category 21
982375.003	D 111, H 3	Aluminium, anodised matt black.	



Interchangeable plastic rings			Price Category 21
982420.002	D 118, H 20	White plastic ring for reflector.	
982422.002	D 118, H 33	White plastic ring for lens.	



Interchangeable optics			Price Category 21
982372.003	D 118, H 83	Reflector spot, narrow beam	
982372.013	D 118, H 83	Reflector medium, medium beam	
982372.023	D 118, H 83	Reflector flood, wide beam	
982372.033	D 118, H 83	Reflector wide flood, very wide beam	
982373.003	D 118, H 83	Spot lens, narrow beam	
982373.013	D 118, H 83	Medium lens, medium beam	
982373.023	D 118, H 83	Flood lens, wide beam	



Point outlet for 3-circuit multi adaptor

Type of protection: IP 20

Protection class: I

Housing: plastic. Cable inlets: break-off (one inlet on the side, three on the back).
250 V/10 A, F max. 50 N [5 kg].

Available colours (X): 2 = white, 3 = black, 9 = grey

Surface mounted point outlet			Price Category 21
70319.00X	D 100, H 32		

Not suitable for versions with track-in converter and DALI integrated in the adaptor.

superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



© Linus Linthner

The application image shows:
DEECOS S



CALIDO® CLICKBEAM

Surface mounted projectors

ARCHITECTURE

- **Design-oriented:** Cylindrical shape with no visible cooling fins.
- **Filigree:** Mini version features particularly compact dimensions.
- **Anti-glare:** Black front ring to prevent glare from the side.

LIGHTING DESIGN

- **Homogenous:** Hybrid optical system with lens and reflector for homogeneous light distribution.
- **Advantageous:** Special polycarbonate lens suitable for different beam angles (medium, wide).
- **Optimum:** Colour tolerance within 3-steps MacAdam (3 SDCM).

INSTALLATION

- **Flexible:** Flexibility by Clickbeam.
- **Variable:** Adjustable lens position by means of push mechanism to adjust the beam angle.
- **Straightforward:** The following accessories can be mounted without use of tools: honeycomb louvre.

Surface mounted projectors | CALIDO CLICKBEAM mini

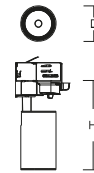
Type of protection: IP 20

Protection class: II

Impact protection: IK03

Housing: extruded aluminium profile, powder-coated. Cover and lever arm made of plastic.
Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. Special polycarbonate lens suitable for different beam angles. Adjustable lens position by means of push mechanism to adjust the beam angle. With multi adaptor for 3-circuit tracks 230 V. Ceiling mounting.

Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control
Surface mounted projector with multi adaptor for 3-circuit tracks 230 V							Price Category 21
742129.00X	D 50, H 132	828	1000/1150	12/12	96	21/34 Clickbeam	on/off
742129.00X.1	D 50, H 132	840	1250/1300	12/12	109	21/34 Clickbeam	on/off

Anti-glare honeycomb louvre							Price Category 21
982448.003	D 47, H 4	Anti-glare honeycomb louvre CALIDO mini					

Surface mounted point outlet							Price Category 21
70319.00X	D 100, H 32						

Not suitable for versions with track-in converter and DALI integrated in the adapter.

Comparison LED vs. conventional lamps

LED 12 W ≈
1 x 20 W HIT (23 W Psys)

Surface mounted projectors | CALIDO CLICKBEAM midi

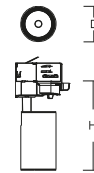
Type of protection: IP 20

Protection class: II

Impact protection: IK03

Housing: extruded aluminium profile, powder-coated. Cover and lever arm made of plastic.
Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. Special polycarbonate lens suitable for different beam angles. Adjustable lens position by means of push mechanism to adjust the beam angle. With multi adaptor for 3-circuit tracks 230 V. Ceiling mounting.

Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control
Surface mounted projector with multi adaptor for 3-circuit tracks 230 V							Price Category 21
742130.00X	D 65, H 164	830	1900/1950	25/25	78	22/38 Clickbeam	on/off
742130.00X.1	D 65, H 164	840	1950/2000	25/25	80	22/38 Clickbeam	on/off

Anti-glare honeycomb louvre							Price Category 21
982544.003	D 55, H 4	Anti-glare honeycomb louvre CALIDO midi					

Surface mounted point outlet							Price Category 21
70319.00X	D 100, H 32						

Not suitable for versions with track-in converter and DALI integrated in the adapter.

Comparison LED vs. conventional lamps

LED 25 W ≈
1 x 35 W HIT (43 W Psys)

Surface mounted projectors | CALIDO CLICKBEAM maxi D90

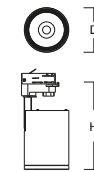
Type of protection: IP 20

Protection class: I

Impact protection: IK03

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°. Front ring die-cast aluminium black. Hybrid optical system with polycarbonate lens and reflector in faceted aluminium. Special polycarbonate lens suitable for different beam angles. Adjustable lens position by means of push mechanism to adjust the beam angle. Converter integrated in the adapter. With multi adaptor for 3-circuit tracks 230 V. Ceiling mounting.

Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting control
Surface mounted projector with multi adaptor for 3-circuit tracks 230 V							Price Category 21
742165.00X	D 90, H 162	830	2700/2900	26/26	112	21/42 Clickbeam	on/off
742165.00X.1	D 90, H 162	840	2900/3100	26/26	120	21/42 Clickbeam	on/off
742166.00X	D 90, H 162	830	3400/3600	37/37	98	21/42 Clickbeam	on/off
742166.00X.1	D 90, H 162	840	3600/3800	37/37	103	21/42 Clickbeam	on/off

Anti-glare honeycomb louvre							Price Category 21
982810.003	D 90, H 5	Anti-glare honeycomb louvre CALIDO maxi D90					

Comparison LED vs. conventional lamps

LED 26 W ≈
1 x 35 W HIT (43 W Psys)
LED 37 W ≈
1 x 50 W HIT (56 W Psys)



ARLINE

Surface mounted projectors

ARCHITECTURE

- **Design-oriented:** Surface mounted spotlight with modern flat design without visible cooling fins.
- **Flexible:** Exchangeable lens optic for four different beam angles, narrow, medium, wide, very wide.
- **Individual:** Decorative rings in four colours, exchangeable without tools.

LIGHTING DESIGN

- **Variable:** MultiLumen - 2-step luminous flux can be adjusted on the adapter.
- **Homogenous:** Lens technology for the best homogeneity of the light cone.
- **True colours:** CRI >90 for the most realistic possible perception of colours of surroundings, objects and people.
- **Advantageous:** LED rated life 50000 h (L80/B10).
- **Optimum:** Colour tolerance within 3-steps MacAdam (3 SDCM).

INSTALLATION

- **Integrated:** Track-in driver integrated into the adapter.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.

Surface mounted projectors | ARLINE

Type of protection: IP 20

Protection class: II

Impact protection: IK06

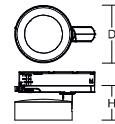
Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°.


Plastic decorative ring, can be changed without tools. Lens optic: plastic (PMMA), exchangeable.

With multi adaptor for 3-circuit tracks 230 V. Track-in driver integrated into the adapter. Ceiling mounting.

Available colours (X): 2 = white, 3 = black

MultiLumen: 2-step luminous flux adjustable on the adapter. Factory setting is the highest luminous flux.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 Beam angle [°]	Lighting control
Surface mounted projector with multi adaptor for 3-circuit tracks 230 V							Price Category 21
742188.00X	D 120, H 150	930	2100/2550	20/25	105	15	on/off
742189.00X	D 120, H 150	930	2100/2550	20/25	105	36	on/off
742188.00X.1	D 120, H 150	940	2100/2550	20/25	105	15	on/off
742189.00X.1	D 120, H 150	940	2100/2550	20/25	105	36	on/off

MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Comparison LED vs. conventional lamps

LED 20 / 25 W ≈

1 x 35 W HIT (43 W Psys)

Decorative rings			Price Category 21
982844.002	D 117, H 10	Decorative ring, white	
982844.003	D 117, H 10	Decorative ring, black	
982844.004	D 117, H 10	Decorative ring, silver	
982844.005	D 117, H 10	Decorative ring, golden	



Exchangeable lens optics			Price Category 21
982843.000	D 83, H 22	Lens spot, narrow beam	
982843.010	D 83, H 22	Lens medium, medium beam	
982843.020	D 83, H 22	Lens flood, wide beam	
982843.030	D 83, H 22	Lens wide flood, very wide beam	



superspot	<10°
spot	10°-20°
medium	>20°-35°
flood	>35°-45°
wide flood	>45°-70°
extra wide flood	>70°



TX-MOVE

Everything at a glance

356° rotatable for
optimal illumination.

Highly efficient LED units with
optimum light control thanks to
precise lens optics.



Very good glare control.
Versions with 30° beam angle UGR<19.

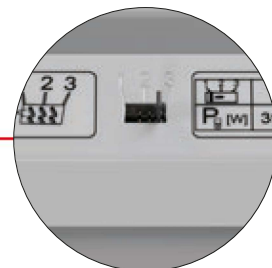
Special microstructures in the
specially developed lens optics
reduce the yellow corona to an
absolute minimum.



MultiLumen version:

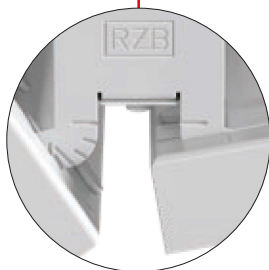
3 steps adjustable luminous flux.

This allows the customer to set the luminous flux flexibly on site.

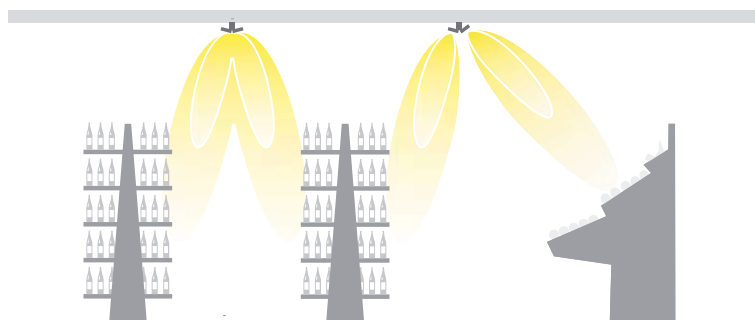


No disposable luminaire thanks to replaceable components.

Scaling of the swivel angle, 90° swivelling for optimal illumination.



Best colour rendering, versions with 2700 K CRI >90, particularly suitable for fresh products (fruit / vegetables, baked goods) or also for coloured textiles and objects.





TX-MOVE

Surface mounted projectors

ARCHITECTURE

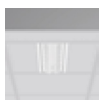
- **Uniform:** For uniform ambient lighting of wide areas and focussed lighting of large advertising boards and shop shelves.
- **Versatile:** High-efficiency LED units with optimum light control thanks to clear plastic (PC) lens optics or flush-mounted opal diffuser made of non-yellowing PMMA.
- **Advantageous:** Unobtrusive effect thanks to flat design and also predestined for low ceiling heights.

LIGHTING DESIGN

- **True colours:** Best colour rendering with CRI>90 for fresh produce and coloured textiles.
- **Reduced:** Special microstructures in the specially developed lens optics reduce the yellow corona (caused by chromatic aberration) to an absolute minimum.
- **Anti-glare:** Versions with $UGR \leq 19$ can also be used in till areas.
- **Reliable planning:** Various beam variants: narrow, medium, wide, asymmetrical as standard, others on request.

INSTALLATION

- **Variable:** MultiLumen - 3-step adjustable luminous flux.
- **Easy installation:** Can be swivelled by 356° for optimal illumination.
- **Flexible:** Can be swivelled by 90° for optimal illumination, visible tilt scale.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.



Further luminaires of this series, see:
Indoor lighting | Recessed projectors





Surface mounted projectors | TX-MOVE - one lamp

Type of protection: IP 20

Protection class: I

Impact protection: IK03 (Diffuser opal), IK04 (Optic lenses)

Housing: sheet steel, powder-coated. Rotation range: 356°. Swivel range: 90°. Consistent alignment possible with visible tilt scale. High-efficiency LED units with optimum light control thanks to clear plastic (PC) lens optics or flush-mounted opal diffuser made of non-yellowing PMMA. Driver integrated. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks.

MultiLumen: 3 steps adjustable luminous flux. Factory setting is the highest luminous flux.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colour 835 also available as standard articles - see www.rzb-lighting.com



Comparison LED vs. conventional lamps

Optic lenses

LED 18 W ≈

1 x 28 W T16 (31 W Psys)

1 x 20 W HIT (23 W Psys)

LED 19 W ≈

1 x 39 W T16 (41 W Psys)

1 x 35 W HIT (43 W Psys)

LED 33 W ≈

1 x 49 W T16 (53 W Psys)

1 x 50 W HIT (56 W Psys)

LED 40 W ≈

2 x 39 W T16 (82 W Psys)

1 x 70 W HIT (84 W Psys)

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	α [°]	Lighting control
Surface mounted projector with multi adaptor for 3-circuit tracks 230 V							Price Category 21
Diffuser: plastic (PMMA), opal							
742160.00X.2	L 569, B 57, H 77	927	1700...2950	18...33	95	112	on/off
742160.00X	L 569, B 57, H 77	830	2350...4500	19...40	124	112	on/off
742160.00X.1	L 569, B 57, H 77	840	2450...4800	19...40	129	112	on/off
Optic lenses - symmetrical							
742157.00X.2	L 569, B 57, H 77	927	1950...3350	18...33	109	30	on/off
742158.00X.2	L 569, B 57, H 77	927	2000...3450	18...33	112	85	on/off
742157.00X	L 569, B 57, H 77	830	2700...5250	19...40	143	30	on/off
742158.00X	L 569, B 57, H 77	830	2750...5300	19...40	145	85	on/off
742157.00X.1	L 569, B 57, H 77	840	2850...5450	19...40	150	30	on/off
742158.00X.1	L 569, B 57, H 77	840	2900...5550	19...40	153	85	on/off
Optic lenses - asymmetrical							
742159.00X.2	L 569, B 57, H 77	927	1900...3300	18...33	106		on/off
742159.00X	L 569, B 57, H 77	830	2600...5000	19...40	137		on/off
742159.00X.1	L 569, B 57, H 77	840	2750...5250	19...40	145		on/off

Surface mounted projector with DALI adapter only for RZB 3-circuit DALI track 230 V

Price Category 21

Diffuser: plastic (PMMA), opal

742160.00X.2.76	L 569, B 57, H 77	927	1700...2950	18...33	95	112	DALI
742160.00X.76	L 569, B 57, H 77	830	2350...4500	19...40	124	112	DALI
742160.00X.1.76	L 569, B 57, H 77	840	2450...4800	19...40	129	112	DALI

Optic lenses - symmetrical

742157.00X.2.76	L 569, B 57, H 77	927	1950...3400	18...33	109	30	DALI
742158.00X.2.76	L 569, B 57, H 77	927	2000...3450	18...33	112	85	DALI
742157.00X.76	L 569, B 57, H 77	830	2700...5200	19...40	143	30	DALI
742158.00X.76	L 569, B 57, H 77	830	2750...5300	19...40	145	85	DALI
742157.00X.1.76	L 569, B 57, H 77	840	2850...5450	19...40	150	30	DALI
742158.00X.1.76	L 569, B 57, H 77	840	2900...5550	19...40	153	85	DALI

Optic lenses - asymmetrical

742159.00X.2.76	L 569, B 57, H 77	927	1900...3300	18...33	106		DALI
742159.00X.76	L 569, B 57, H 77	830	2600...5000	19...40	137		DALI
742159.00X.1.76	L 569, B 57, H 77	840	2750...5250	19...40	145		DALI

MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.



Surface mounted point outlet

Price Category 21

70319.00X D 100, H 32

Not suitable for versions with track-in converter and DALI integrated in the adapter.



Surface mounted projectors | TX-MOVE - two lamps

Type of protection: IP 20

Protection class: I

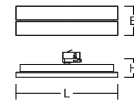
Impact protection: IK03 (Diffuser opal), IK04 (Optic lenses)


Housing: sheet steel, powder-coated. Rotation range: 356°. Swivel range: 2 x 90°. Consistent alignment possible with visible tilt scale. High-efficiency LED units with optimum light control thanks to clear plastic (PC) lens optics or flush-mounted opal diffuser made of non-yellowing PMMA. Driver integrated. With multi-adaptor for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks.

MultiLumen: 3 steps adjustable luminous flux. Factory setting is the highest luminous flux.

Available colours (X): 2 = white, 3 = black, 4 = silver

Light colour 835 also available as standard articles - see www.rzb-lighting.com



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	 [°]	Lighting control
Surface mounted projector with multi adaptor for 3-circuit tracks 230 V							Price Category 21
Diffuser: plastic (PMMA), opal							
742164.00X.2	L 569, B 119, H 75	927	3600...5550	38...62	95	112	on/off
742164.00X	L 569, B 119, H 75	830	4900...8150	41...73	120	112	on/off
742164.00X.1	L 569, B 119, H 75	840	5250...8750	41...73	129	112	on/off
Optic lenses - symmetrical							
742161.00X.2	L 569, B 119, H 75	927	4250...6600	38...62	112	30	on/off
742162.00X.2	L 569, B 119, H 75	927	4300...6650	38...62	114	85	on/off
742161.00X	L 569, B 119, H 75	830	5800...9600	41...73	142	30	on/off
742162.00X	L 569, B 119, H 75	830	5850...9700	41...73	143	85	on/off
742161.00X.1	L 569, B 119, H 75	840	6250...10400	41...73	153	30	on/off
742162.00X.1	L 569, B 119, H 75	840	6300...10400	41...73	154	85	on/off
Optic lenses - asymmetrical							
742163.00X.2	L 569, B 119, H 75	927	4000...6200	38...62	106		on/off
742163.00X	L 569, B 119, H 75	830	5500...9050	41...73	135		on/off
742163.00X.1	L 569, B 119, H 75	840	5900...9750	41...73	144		on/off
Surface mounted projector with DALI adapter only for RZB 3-circuit DALI track 230 V							Price Category 21
Diffuser: plastic (PMMA), opal							
742164.00X.2.76	L 569, B 119, H 75	927	3550...5500	38...62	94	112	DALI
742164.00X.76	L 569, B 119, H 75	830	4900...8150	41...73	120	112	DALI
742164.00X.1.76	L 569, B 119, H 75	840	5250...8750	41...73	129	112	DALI
Optic lenses - symmetrical							
742161.00X.2.76	L 569, B 119, H 75	927	4200...6500	38...62	111	30	DALI
742162.00X.2.76	L 569, B 119, H 75	927	4200...6550	38...62	111	85	DALI
742161.00X.76	L 569, B 119, H 75	830	5800...9600	41...73	142	30	DALI
742162.00X.76	L 569, B 119, H 75	830	5850...9700	41...73	143	85	DALI
742161.00X.1.76	L 569, B 119, H 75	840	6250...10400	41...73	153	30	DALI
742162.00X.1.76	L 569, B 119, H 75	840	6300...10400	41...73	154	85	DALI
Optic lenses - asymmetrical							
742163.00X.2.76	L 569, B 119, H 75	927	3950...6150	38...62	104		DALI
742163.00X.76	L 569, B 119, H 75	830	5500...9050	41...73	135		DALI
742163.00X.1.76	L 569, B 119, H 75	840	5900...9750	41...73	144		DALI

MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

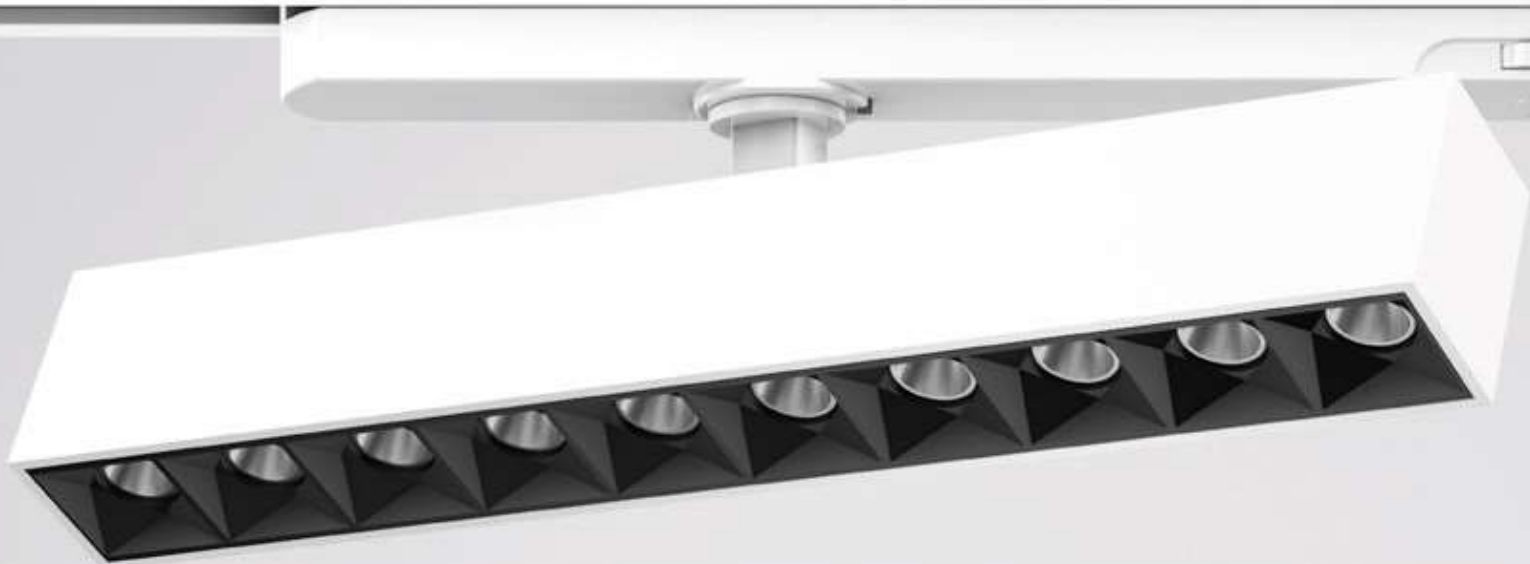
Surface mounted point outlet

70319.00X D 100, H 32

Price Category 21

Not suitable for versions with track-in converter and DALI integrated in the adapter.





reddot winner 2022



GERMAN
DESIGN
AWARD
WINNER
2022

BEAMLINE SLIM

Surface mounted projectors

ARCHITECTURE

- **Design-oriented:** Light perfectly integrated into the architectural environment.
- **Filigree:** LED luminaire with slim design.
- **Extensive:** Three light distribution options (narrow, medium-wide and wide beam) for maximum flexibility in use.

LIGHTING DESIGN

- **Anti-glare:** MRS technology for pleasant, glare-free lighting (UGR < 10).
- **Optimum:** Darklight effect.
- **True colours:** CRI >90 for the most realistic possible perception of colours of surroundings, objects and people.
- **Advantageous:** LED rated life 50000 h (L80/B10).

INSTALLATION

- **Flexible:** Rotation range: 356°. Swivel range: 90°.
- **Easy installation:** With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.



Further luminaires of this series, see:
Indoor lighting | Linear systems





Surface mounted projectors | BEAMLINE SLIM

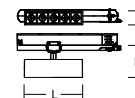
Type of protection: IP 20

Protection class: II

Impact protection: IK06

Housing: metal, powder-coated. Perfect heat management with an aluminium heat sink. Rotation range: 356°. Swivel range: 90°. LED light unit with **MRS technology**: Mini-Reflector-System made of metallised thermoplastic with prismatic black glare-suppressing frame for pleasant glare-free light (UGR < 10). Three light distribution options (narrow, medium-wide and wide beam) for maximum flexibility in use. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks.

Available colours (X): 2 = white, 3 = black, 4 = silver

Comparison
LED vs. conventional lamps

LED 14 W ≈
1 x 20 W HIT (23 W Psys)

LED 25 W ≈
1 x 35 W HIT (43 W Psys)



Surface mounted projector with multi adaptor for 3-circuit tracks 230 V

Price Category 21

Narrow beam light distribution 10°

742167.00X	L 145, B 35, H 80	927	900	14	65	3,1	on/off
742167.00X.1	L 145, B 35, H 80	930	980	14	70	3,5	on/off
742167.00X.2	L 145, B 35, H 80	940	1050	14	75	3,5	on/off
742170.00X	L 285, B 35, H 80	927	1800	25	72	3,1	on/off
742170.00X.1	L 285, B 35, H 80	930	1950	25	78	3,5	on/off
742170.00X.2	L 285, B 35, H 80	940	2100	25	84	3,5	on/off



Medium beam light distribution 30°

742168.00X	L 145, B 35, H 80	927	940	14	68	5,7	on/off
742168.00X.1	L 145, B 35, H 80	930	1000	14	72	5,4	on/off
742168.00X.2	L 145, B 35, H 80	940	1100	14	79	5,9	on/off
742171.00X	L 285, B 35, H 80	927	1900	25	76	5,7	on/off
742171.00X.1	L 285, B 35, H 80	930	2050	25	82	5,4	on/off
742171.00X.2	L 285, B 35, H 80	940	2150	25	86	5,9	on/off



Wide beam light distribution 50°

742169.00X	L 145, B 35, H 80	927	960	14	69	9,5	on/off
742169.00X.1	L 145, B 35, H 80	930	1050	14	75	9,5	on/off
742169.00X.2	L 145, B 35, H 80	940	1100	14	79	9,4	on/off
742172.00X	L 285, B 35, H 80	927	1900	25	76	9,5	on/off
742172.00X.1	L 285, B 35, H 80	930	2050	25	82	9,4	on/off
742172.00X.2	L 285, B 35, H 80	940	2200	25	88	9,4	on/off



Surface mounted projector with DALI adapter only for RZB 3-circuit DALI track 230 V

Price Category 21

Narrow beam light distribution 10°

742167.00X.76	L 145, B 35, H 80	927	900	14	65	3,1	DALI
742167.00X.1.76	L 145, B 35, H 80	930	980	14	70	3,5	DALI
742167.00X.2.76	L 145, B 35, H 80	940	1050	14	75	3,5	DALI
742170.00X.76	L 285, B 35, H 80	927	1800	25	72	3,1	DALI
742170.00X.1.76	L 285, B 35, H 80	930	1950	25	78	3,5	DALI
742170.00X.2.76	L 285, B 35, H 80	940	2100	25	84	3,5	DALI



Medium beam light distribution 30°

742168.00X.76	L 145, B 35, H 80	927	940	14	68	5,7	DALI
742168.00X.1.76	L 145, B 35, H 80	930	1000	14	72	5,4	DALI
742168.00X.2.76	L 145, B 35, H 80	940	1100	14	79	5,9	DALI
742171.00X.76	L 285, B 35, H 80	927	1900	25	76	5,7	DALI
742171.00X.1.76	L 285, B 35, H 80	930	2050	25	82	5,4	DALI
742171.00X.2.76	L 285, B 35, H 80	940	2150	25	86	5,9	DALI



Wide beam light distribution 50°

742169.00X.76	L 145, B 35, H 80	927	960	14	69	9,5	DALI
742169.00X.1.76	L 145, B 35, H 80	930	1050	14	75	9,5	DALI
742169.00X.2.76	L 145, B 35, H 80	940	1100	14	79	9,4	DALI
742172.00X.76	L 285, B 35, H 80	927	1900	25	76	9,5	DALI
742172.00X.1.76	L 285, B 35, H 80	930	2050	25	82	9,4	DALI
742172.00X.2.76	L 285, B 35, H 80	940	2200	25	88	9,4	DALI



Surface mounted projectors | BEAMLINE SLIM

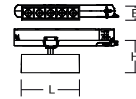
Type of protection: IP 20

Protection class: II

Impact protection: IK06

Housing: metal, powder-coated. Perfect heat management with an aluminium heat sink. Rotation range: 356°. Swivel range: 90°. LED light unit with **MRS technology**: Mini-Reflector-System made of metallised thermoplastic with prismatic white glare-suppressing frame for pleasant glare-free light (UGR < 10). Three light distribution options (narrow, medium-wide and wide beam) for maximum flexibility in use. With multi-adaptor for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks.

Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency# [lm/W]	UGR	Lighting control
Surface mounted projector with multi adaptor for 3-circuit tracks 230 V							Price Category 21
Narrow beam light distribution 10°							
742167.0025	L 145, B 35, H 80	927	900	14	64	3,1	on/off
742167.0025.1	L 145, B 35, H 80	930	980	14	70	3,5	on/off
742167.0025.2	L 145, B 35, H 80	940	1050	14	75	3,5	on/off
742170.0025	L 285, B 35, H 80	927	1800	25	72	3,1	on/off
742170.0025.1	L 285, B 35, H 80	930	1950	25	78	3,5	on/off
742170.0025.2	L 285, B 35, H 80	940	2100	25	84	3,5	on/off
Medium beam light distribution 30°							
742168.0025	L 145, B 35, H 80	927	940	14	67	5,7	on/off
742168.0025.1	L 145, B 35, H 80	930	1000	14	71	5,4	on/off
742168.0025.2	L 145, B 35, H 80	940	1100	14	79	5,9	on/off
742171.0025	L 285, B 35, H 80	927	1900	25	76	5,7	on/off
742171.0025.1	L 285, B 35, H 80	930	2050	25	82	5,4	on/off
742171.0025.2	L 285, B 35, H 80	940	2150	25	86	5,9	on/off
Wide beam light distribution 50°							
742169.0025	L 145, B 35, H 80	927	960	14	69	9,5	on/off
742169.0025.1	L 145, B 35, H 80	930	1050	14	75	9,5	on/off
742169.0025.2	L 145, B 35, H 80	940	1100	14	79	9,4	on/off
742172.0025	L 285, B 35, H 80	927	1900	25	76	9,5	on/off
742172.0025.1	L 285, B 35, H 80	930	2050	25	82	9,4	on/off
742172.0025.2	L 285, B 35, H 80	940	2200	25	88	9,4	on/off

Surface mounted projector with DALI adapter only for RZB 3-circuit DALI track 230 V							Price Category 21
Narrow beam light distribution 10°							
742167.0025.76	L 145, B 35, H 80	927	900	14	64	3,1	DALI
742167.0025.1.76	L 145, B 35, H 80	930	980	14	70	3,5	DALI
742167.0025.2.76	L 145, B 35, H 80	940	1050	14	75	3,5	DALI
742170.0025.76	L 285, B 35, H 80	927	1800	25	72	3,1	DALI
742170.0025.1.76	L 285, B 35, H 80	930	1950	25	78	3,5	DALI
742170.0025.2.76	L 285, B 35, H 80	940	2100	25	84	3,5	DALI
Medium beam light distribution 30°							
742168.0025.76	L 145, B 35, H 80	927	940	14	67	5,7	DALI
742168.0025.1.76	L 145, B 35, H 80	930	1000	14	71	5,4	DALI
742168.0025.2.76	L 145, B 35, H 80	940	1100	14	79	5,9	DALI
742171.0025.76	L 285, B 35, H 80	927	1900	25	76	5,7	DALI
742171.0025.1.76	L 285, B 35, H 80	930	2050	25	82	5,4	DALI
742171.0025.2.76	L 285, B 35, H 80	940	2150	25	86	5,9	DALI
Wide beam light distribution 50°							
742169.0025.76	L 145, B 35, H 80	927	960	14	69	9,5	DALI
742169.0025.1.76	L 145, B 35, H 80	930	1050	14	75	9,5	DALI
742169.0025.2.76	L 145, B 35, H 80	940	1100	14	79	9,4	DALI
742172.0025.76	L 285, B 35, H 80	927	1900	25	76	9,5	DALI
742172.0025.1.76	L 285, B 35, H 80	930	2050	25	82	9,4	DALI
742172.0025.2.76	L 285, B 35, H 80	940	2200	25	88	9,4	DALI

Comparison
LED vs. conventional lamps

LED 14 W ≈

1 x 20 W HIT (23 W Psys)

LED 25 W ≈

1 x 35 W HIT (43 W Psys)





The application image shows:
DEECOS S
LINEDO



3-circuit tracks
496-503

3-circuit DALI tracks
504-511

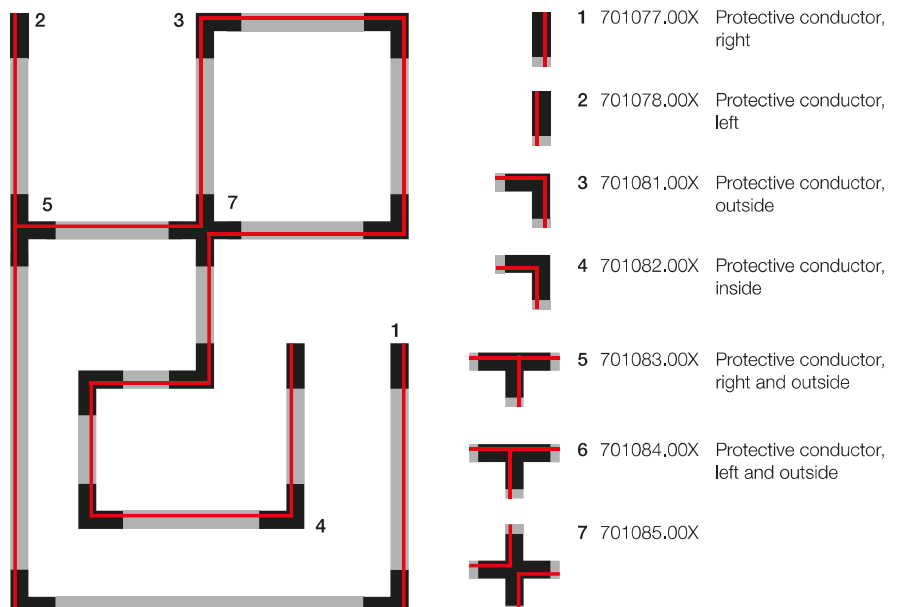


3-CIRCUIT TRACKS

Tracks

- Aluminium extrusion profile tracks for the most flexible mounting options of spotlights.
- 3-circuit tracks with three electrical circuits that can be switched separately.
- Tracks can be cut easily by sawing them off without additional work steps.
- Large range of accessories for flexible design of the track system.
- Recessed and surface-mounted versions available.
- Approved for use within hand's reach.

Planning example for surface-mounted 3-circuit tracks
(View from below of the ceiling-mounted system.)



Tracks | 3-circuit tracks

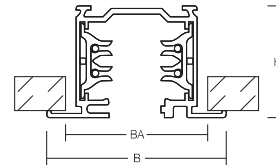
Type of protection: IP 20

Protection class: I

Aluminium extrusion profile, painted. Tracks can be cut to any required length. May be used within hand's reach.

Voltage: 250 V~ or 3-Circuit current 230/400 V max, 16 A

Available colours (X): 2 = white, 3 = black, 4 = aluminium, anodised



Reference number	Dimensions [mm]
------------------	-----------------

Recessed tracks,

Ceiling cut out width (BA) 42 mm

Price Category 21

Length 1000 mm, mounting holes at 100; 880 mm

701067.00X L 1000, B 53, H 33

Length 2000 mm, mounting holes at 100; 990; 1,880 mm

701068.00X L 2000, B 53, H 33

Length 3000 mm, mounting holes at 100; 990; 1,990; 2,880 mm

701069.00X L 3000, B 53, H 33

Length 4000 mm, mounting holes at 100; 990; 1,990; 2,990; 3,875 mm

701070.00X L 4000, B 53, H 33

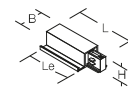
Live end feed for 3-circuit tracks

Protection class: I

Plastic

Suitable for recessed tracks (track wings).

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 80 mm

Price Category 21

Protective conductor, left

701089.00X L 119, B 53, H 33

Protective conductor, right

701088.00X L 119, B 53, H 33

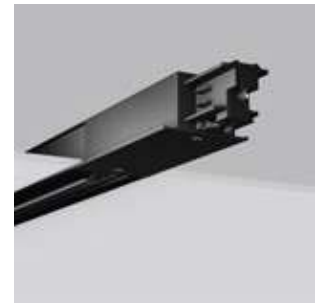
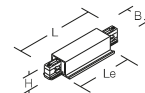
Alternative live feed for 3-circuit tracks

Protection class: I

Plastic

Suitable for recessed tracks (track wings).

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 120 mm

Price Category 21

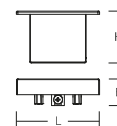
701090.00X L 198, B 53, H 33

End cap for 3-circuit tracks

Plastic

Suitable for recessed tracks (track wings).

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 3 mm

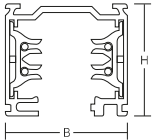
Price Category 21

701121.00X L 53, B 19, H 33



Tracks | 3-circuit tracks

Type of protection: IP 20
Protection class: I
Aluminium extrusion profile, painted. Tracks can be cut to any required length.
May be used within hand's reach.
Voltage: 250 V~ or 3-Circuit current 230/400 V max, 16 A
Available colours (X): 2 = white, 3 = black, 4 = aluminium, anodised



Reference number Dimensions [mm]

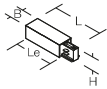
Surface mounted tracks	
Length 1000 mm, mounting holes at 100; 880 mm	
701063.00X	L 1000, B 36, H 33
Length 2000 mm, mounting holes at 100; 990; 1,880 mm	
701064.00X	L 2000, B 36, H 33
Length 3000 mm, mounting holes at 100; 990; 1,990; 2,880 mm	
701065.00X	L 3000, B 36, H 33
Length 4000 mm, mounting holes at 100; 990; 1,990; 2,990; 3,870 mm	
701066.00X	L 4000, B 36, H 33

Price Category 21



Live end feed for 3-circuit tracks

Protection class: I
Plastic
Suitable for surface-mounted tracks.
Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number Dimensions [mm]

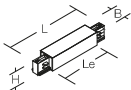
Recessed length (Le): 80 mm	
Protective conductor, left	
701078.00X	L 119, B 37, H 33
Protective conductor, right	
701077.00X	L 119, B 37, H 33

Price Category 21



Alternative live feed for 3-circuit tracks

Protection class: I
Plastic
Suitable for surface-mounted tracks.
Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number Dimensions [mm]

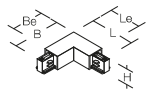
Recessed length (Le): 120 mm	
701079.00X	L 198, B 37, H 33

Price Category 21



90° angle coupling for 3-circuit tracks

Protection class: I
Plastic, with live feed
Suitable for surface-mounted tracks.
Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number Dimensions [mm]

Recessed length (Le): 80 mm, Be 80 mm	
Protective conductor, outside	
701081.00X	L 117, B 117, H 33
Protective conductor, inside	
701082.00X	L 117, B 117, H 33

Price Category 21

PE conductor position can be changed on site, as required.

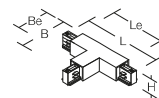
T-coupling for 3-circuit tracks

Protection class: I

Plastic, with live feed

Suitable for surface-mounted tracks.

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 120 mm, Be 80 mm

Price Category 21

Protective conductor, left and outside

701084.00X L 198, B 117, H 33

Protective conductor, right and outside

701083.00X L 198, B 117, H 33

PE conductor position can be changed on site, as required.

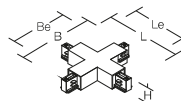
Cross coupling for 3-circuit tracks

Protection class: I

Plastic, with live feed

Suitable for surface-mounted tracks.

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]
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Recessed length (Le): 120 mm, Be 120 mm

Price Category 21

701085.00X L 198, B 198, H 33

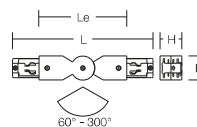
Joint coupling for 3-circuit tracks

Protection class: I

Plastic, Swivel range: $\pm 120^\circ$ (from 60° to 300°), stepless.

Suitable for surface-mounted tracks.

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]
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Recessed length (Le): 130 mm

Price Category 21

701092.00X L 208, B 36, H 33

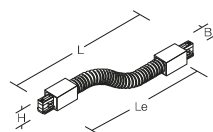
Flexible coupling for 3-circuit tracks

Protection class: I

Plastic, Rotation and swivel range: $\pm 180^\circ$, horizontal and vertical, stepless.

Suitable for surface-mounted tracks.

Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 300 mm

Price Category 21

701086.00X L 390, B 37, H 33

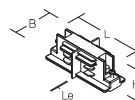
Electric coupling, straight, for 3-circuit tracks

Protection class: I

Plastic, gapless

Coupling for electrical and mechanical connection.

Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 2 mm

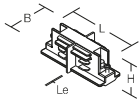
Price Category 21

701071.00X L 81, B 37, H 32



Mechanical coupling, straight, for 3-circuit tracks

Plastic, gapless
Mechanical coupling for electrical isolation.
Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]
Recessed length (Le): 2 mm	
701080.00X	L 81, B 37, H 32

Price Category 21



End cap for 3-circuit tracks

Plastic
Available colours (X): 2 = white, 3 = black, 4 = silver



Reference number	Dimensions [mm]
Recessed length (Le): 3 mm	
701087.00X	L 36, B 10, H 33

Price Category 21



Suspension kit for 3-circuit tracks

Suspension Length: 100-5000 mm
Suspension set with clamps for track mounting; max. 160 N [16 kg], Steel cable Ø 1.2 mm; pendant length: 5 m; can be shortened with quick adjustment system, ceiling mounting material included.
A distance of 1,5 m between two suspensions is recommended.
Available colours (X): 2 = white, 3 = black, 4 = stainless steel



Reference number	Dimensions [mm]
Suspension kit for 3-circuit tracks	
01-8524.15X	D 12, LP 100-5000

Price Category 21



Cable suspension for 3-circuit tracks

Suspension Length: 100-2000 mm
Ceiling mounting, with canopy and M6 screw. Max. 200 N [20 kg], pendant length: 1,5 m, can be shortened. The wire rope clip is fixed to the canopy, the quick adjustment system is mounted to the track.
A distance of 1,5 m between two suspensions is recommended.
Available colours (X): 2 = white, 3 = black



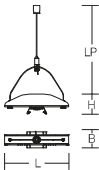
Reference number	Dimensions [mm]
Cable suspension for 3-circuit tracks	
701073.00X	D 41, LP 100-2000

Price Category 21



Suspension kit with traverse for 3-circuit tracks

Suspension Length: 230-5000 mm
Wire rope set with cross traverse and bracket for tracks (avoids twisting in case of asymmetrical loads). Max. 160 N [16 kg], Steel cable Ø 1.2 mm; pendant length: 5 m; can be shortened with quick adjustment system, ceiling mounting material included.
A distance of approx. 1,5 m between two clamps is recommended.
Available colours (X): 0 = blank, 2 = white, 3 = black



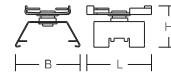
Reference number	Dimensions [mm]
Suspension kit with traverse for 3-circuit tracks	
701096.00X	L 120, B 19, H 24, LP 230-5000

Price Category 21

Clamp unit for grid ceilings

Clamp unit for tracks: 24 mm white with clamp for tracks. A distance of approx. 1.5 m between two clamps is recommended.

Available colours: 0 = stainless steel, 2 = white, 3 = black



Reference number Dimensions [mm]

Clamp unit for grid ceilings

Price Category 21

981986.002	L 38, B 28, H 21
981986.003	L 38, B 28, H 21
981986.100	L 38, B 28, H 21

Ceiling mount for 3-circuit tracks

Aluminium, raw. A distance of 1.5 m between two suspensions is recommended.



Reference number Dimensions [mm]

Ceiling mount for 3-circuit tracks

Price Category 21

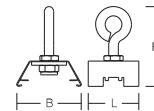
701074.000	L 30, B 34, H 15
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Clip with eye ring

Clamp fastening system for tracks, with M6 eye ring.

A distance of 1.5 m between two suspensions is recommended.

Available colour: 0 = stainless steel



Reference number Dimensions [mm]

Clip with eye ring

Price Category 21

701094.000	L 30, B 37, H 42
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Hanging clamp for 3-circuit tracks

Metal, galvanised. A distance of 1.5 m between two suspensions is recommended.

Available colour: 4 = silver



Reference number Dimensions [mm]

Hanging clamp for 3-circuit tracks

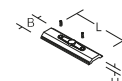
Price Category 21

701091.004	L 24, B 32, H 38
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Mechanical connection plate for 3-circuit tracks

Aluminium, raw. 4 thread M5.

Available colour: 4 = silver



Reference number Dimensions [mm]

Mechanical connection plate for 3-circuit tracks

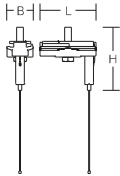
Price Category 21

701072.004	L 120, B 30, H 17
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Mechanical adaptor with steel cable quick mount for 3-circuit tracks

Aluminium, painted; track mounting; mechanical adaptor for easy installation of steel cable D 1.2 mm. 2 m steel cable included, F max. 100 N [10 kg]. Available colours (X): 2 = white, 3 = black, 4 = silver



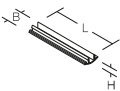
Reference number	Dimensions [mm]
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Mechanical adaptor with steel cable quick mount for 3-circuit tracks		Price Category 21
701093.00X	L 66, B 32, H 75	



Cover for 3-circuit tracks and for RZB 3-circuit DALI tracks

Plastic track cover, length: 1 m, can be shortened as required. Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]
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Cover for 3-circuit tracks		Price Category 21
701075.00X	L 1000, B 18, H 10	



Multi adaptor with Schukoplug socket for 3-circuit tracks and for RZB 3-circuit DALI tracks

Protection class: I
Multi adaptor for 3-circuit tracks of all known brands, plastic, max. 10 A / 250 V ~, Rotatable circuit selector with circuit breaker and mechanical lock; with Schukoplug socket; only for lighting or lighting accessories. Available colour: 2 = white

Reference number	Dimensions [mm]
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Multi adaptor with Schukoplug socket for 3-circuit tracks		Price Category 21
70316.002	L 90, B 57, H 73	



Multi adaptor for 3-circuit tracks

Protection class: I
For all known brands, Plastic, max. 6 A/250 V~, F max. 50 N [5 kg]. Rotatable circuit selector with circuit breaker and mechanical lock. Available colours (X): 2 = white, 3 = black, 9 = grey

Reference number	Dimensions [mm]
------------------	-----------------

Recessed height (He): 19 mm		Price Category 21
701035.00X	L 70, B 35, H 51	



Multi adaptor for 3-circuit tracks

Protection class: I
Multi adaptor for 3-circuit tracks for all known brands, Plastic, max. 10 A/250 V~, F max. 100 N [10 kg]. Rotatable circuit selector with circuit breaker and mechanical lock. Available colours (X): 2 = white, 3 = black, 9 = grey

Reference number	Dimensions [mm]
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Recessed height (He): 33 mm		Price Category 21
70318.00X	L 85, B 32, H 63	

Aluminium holder for multi adaptor

With M10x1 thread. Thread length: 12 mm

Available colours: black, aluminium

Reference number	Dimensions [mm]
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Aluminium holder for multi adaptor**Price Category 21**

70349	D 27, H 19	aluminium
70349.003	D 27, H 19	black

**Strain relief for multi adaptor and 3-phase DALI adaptor**

Plastic

Available colours (X): 2 = white, 3 = black

Reference number	Dimensions [mm]
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Recessed height (He): 30 mm**Price Category 21**

70875.00X	D 26, H 33
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**Point outlet for 3-circuit multi adaptor**

Type of protection: IP 20

Protection class: I

Housing: plastic. Cable inlets: break-off (one inlet on the side, three on the back). 250 V/10 A, F max. 50 N [5 kg].

Available colours (X): 2 = white, 3 = black, 9 = grey

Reference number	Dimensions [mm]
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Surface mounted point outlet**Price Category 21**

70319.00X	D 100, H 32
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**Recessed socket for point outlet**

Type of protection: IP 20

Protection class: I

Housing: plastic.

Available colours (X): 2 = white, 3 = black, 9 = grey

Reference number	Dimensions [mm]
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Recessed socket**Price Category 21****Ceiling cut out DA 105 mm, TE 60 mm**

70360.00X	D 130, H 60
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**Light and presence sensor Casambi smart+free**

Type of protection: IP 20

Protection class: I

Casambi smart+free Bluetooth® sensor for wireless control of Casambi smart+free luminaires. Intelligent presence control and daylight sensor. Housing: plastic.

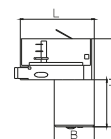
Multi adaptor for 3-circuit tracks 230 V.

Available colours (X): 2 = white, 3 = black

Reference number	Dimensions [mm]
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Light and presence sensor with multi adaptor for 230 V 3-circuit tracks**Price Category 21**

701122.00X.19	L 72, B 39, H 86
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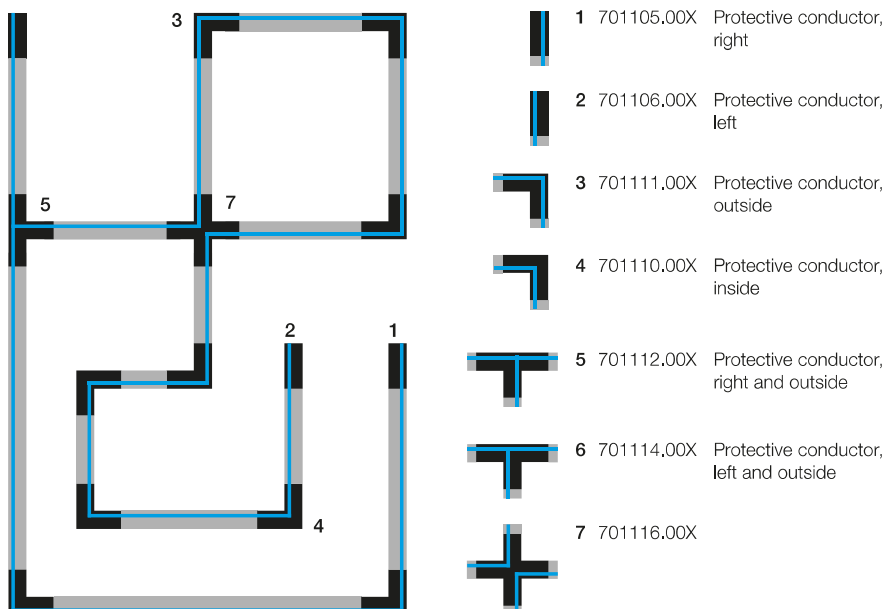
3-CIRCUIT DALI TRACKS

Tracks

- 3-circuit track with integral DALI bus.
- 3-circuit track system for track mounted DALI spot-lights with additional data-bus function for energy savings and dynamic lighting.
- Large range of accessories for flexible design of the track system.
- Recessed and surface-mounted versions available.
- Suitable also for standard 3-circuit adaptors.

Planning example for surface-mounted 3-circuit DALI tracks

(View from below of the ceiling-mounted system.)



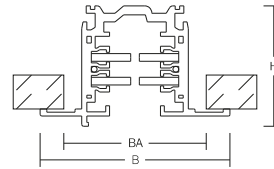
Tracks | Recessed 3-circuit DALI tracks

Type of protection: IP 20

Protection class: I

Aluminium extrusion profile, painted. Tracks can be cut to any required length. May be used within hand's reach. Integral added twin-pole DALI bus leads. Power supply conductors 16 A / 400 V. DALI bus conductors 2x1 A / 50 V AC.

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
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Recessed tracks (track wings)

Price Category 21

Ceiling cut out width (BA) 42 mm

Length 1000 mm, mounting holes at 250, 750 mm

701101.00X L 1000, B 56, H 36

Length 2000 mm, mounting holes at 250, 1000, 1750 mm

701102.00X L 2000, B 56, H 36

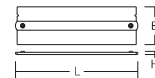
Length 3000 mm, mounting holes at 250, 1000, 2000, 2750 mm

701103.00X L 3000, B 56, H 36

Cover for recessed 3-circuit DALI tracks (DALI track wings)

Plastic, for live end feed and alternative live feed (break-off point for universal use).

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
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Cover for recessed 3-circuit DALI tracks (DALI track wings)

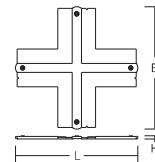
Price Category 21

701117.00X L 181, B 56, H 4

Cover for recessed 3-circuit DALI tracks (DALI track wings)

Plastic, for angled, cross and T couplings (break-off point for universal use)

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
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Cover for recessed 3-circuit DALI tracks (DALI track wings)

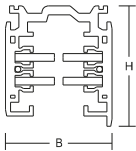
Price Category 21

701118.00X L 181, B 181, H 4



Tracks | 3-circuit DALI tracks

Type of protection: IP 20
Protection class: I
Aluminium extrusion profile, painted. Tracks can be cut to any required length.
Approved for use within hand's reach. Integral added twin-pole DALI bus leads.
Power supply conductors 16 A / 400 V. DALI bus conductors 2 x 1 A / 50 V FELV AC.
Available colours (X): 2 = white, 3 = black, 9 = grey

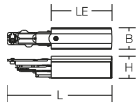


Reference number	Dimensions [mm]	Price Category 21
Surface mounted tracks		
Length 1000 mm, mounting holes at 250, 750 mm		
701097.00X	L 1000, B 32, H 36	
Length 2000 mm, mounting holes at 250, 1000, 1750 mm		
701098.00X	L 2000, B 32, H 36	
Length 3000 mm, mounting holes at 250, 1000, 2000, 2750 mm		
701099.00X	L 3000, B 32, H 36	
Length 4000 mm, mounting holes at 250, 1500, 2500, 3750 mm		
701100.00X	L 4000, B 32, H 36	



Live end feed for 3-circuit DALI tracks

Type of protection: IP 20
Protection class: I
Plastic
Available colours (X): 2 = white, 3 = black, 9 = grey

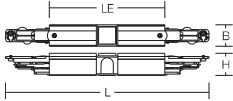


Reference number	Dimensions [mm]	Price Category 21
Recessed length (Le): 90 mm		
Protective conductor, left		
701106.00X	L 155, B 32, H 33	
Protective conductor, right		
701105.00X	L 155, B 32, H 33	



Alternative live feed for 3-circuit DALI tracks

Type of protection: IP 20
Protection class: I
Plastic
Available colours (X): 2 = white, 3 = black, 9 = grey

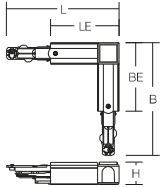


Reference number	Dimensions [mm]	Price Category 21
Recessed length (Le): 170 mm		
701107.00X	L 305, B 32, H 33	



90° angle coupling for 3-circuit DALI tracks

Type of protection: IP 20
Protection class: I
Plastic, with live feed
Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]	Price Category 21
Recessed length (Le): 100 mm, Be 100 mm		
Protective conductor, outside		
701111.00X	L 165, B 165, H 33	
Protective conductor, inside		
701110.00X	L 165, B 165, H 33	

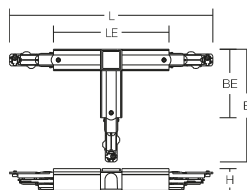
T-coupling for 3-circuit DALI tracks

Type of protection: IP 20

Protection class: I

Plastic, with live feed

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
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Recessed length (Le): 170 mm, Be 100 mm

Price Category 21

Protective conductor, left and outside

701114.00X L 305, B 165, H 33

Protective conductor, left and inside

701113.00X L 305, B 165, H 33

Protective conductor, right and outside

701112.00X L 305, B 165, H 33

Protective conductor, right and inside

701115.00X L 305, B 165, H 33

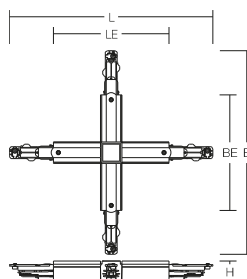
Cross coupling for 3-circuit DALI tracks

Type of protection: IP 20

Protection class: I

Plastic, with live feed

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
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Recessed length (Le): 170 mm, Be 170 mm

Price Category 21

701116.00X L 305, B 305, H 33

Electric coupling, straight, for 3-circuit DALI tracks

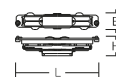
Type of protection: IP 20

Protection class: I

Plastic, gapless

Coupling for electrical and mechanical connection.

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
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Recessed length (Le): 0 mm

Price Category 21

701108.00X L 85, B 20, H 26

Flexible coupling for 3-circuit DALI tracks

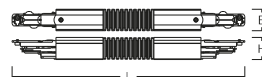
Type of protection: IP 20

Protection class: I

Plastic. Rotation and swivel range: $\pm 180^\circ$, horizontal and vertical, infinite.

Suitable for surface-mounted tracks.

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
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Recessed length (Le): 215 mm

Price Category 21

701109.00X L 340, B 32, H 33



End cap for 3-circuit DALI tracks

Plastic
Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number Dimensions [mm]

Recessed length (Le): 3 mm

Price Category 21

70337.00X L 35, B 32, H 32



Suspension kit for 3-circuit DALI tracks

Suspension Length: 100-5000 mm
Suspension set with clamps for DALI-track mounting. Max. 160 N [16 kg]. Steel cable Ø 1.2 mm; pendant length: 5 m; can be shortened with quick adjustment system, ceiling mounting material included.
A distance of approx. 1.5 m between two clamps is recommended.
Available colours (X): 2 = white, 3 = black, 4 = stainless steel



Reference number Dimensions [mm]

Suspension kit for 3-circuit DALI tracks

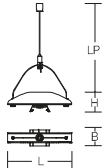
Price Category 21

01-8524.13X D 12, LP 100-5000



Suspension cable with cross-beam for 3-phase DALI busbars

Suspension Length: 230-5000 mm
Wire rope set with cross traverse and bracket for tracks (avoids twisting in case of asymmetrical loads). Max. 160 N [16 kg]. Steel cable Ø 1.2 mm; pendant length: 5 m; can be shortened with quick adjustment system, ceiling mounting material included.
A distance of approx. 1.5 m between two clamps is recommended.
Available colours (X): 0 = blank, 2 = white, 3 = black



Reference number Dimensions [mm]

Suspension cable with cross-beam for 3-phase DALI busbars

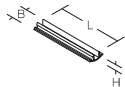
Price Category 21

701096.01X L 120, B 19, H 24, LP 230-5000



Cover for 3-circuit tracks and for RZB 3-circuit DALI tracks

Plastic track cover, length: 1 m, can be shortened as required.
Available colours (X): 2 = white, 3 = black



Reference number Dimensions [mm]

Cover for 3-circuit tracks

Price Category 21

701075.00X L 1000, B 18, H 10

Mechanical connection plate for 3-circuit DALI tracks

Aluminium, raw. 4 thread M5.

Available colours (X): 2 = white, 4 = aluminium



Reference number	Dimensions [mm]
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Mechanical connection plate for 3-circuit DALI tracks

Price Category 21

70354.00X	L 182, B 31, H 20
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Ceiling mount for 3-circuit DALI tracks

Aluminium, raw. A distance of 1.5 m between two suspensions is recommended.

Available colours (X): 2 = white, 3 = black, 4 = aluminium



Reference number	Dimensions [mm]
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Ceiling mount for 3-circuit DALI tracks

Price Category 21

70594.00X	L 30, B 32, H 13
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Hanging clamp for 3-circuit DALI tracks

Metal, galvanised. A distance of 1.5 m between two suspensions is recommended.

Available colours (X): 2 = white, 4 = aluminium



Reference number	Dimensions [mm]
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Hanging clamp for 3-circuit DALI tracks

Price Category 21

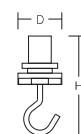
70351.00X	L 25, B 31, H 39
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Decorative hook for 3-circuit DALI tracks

White plastic, painted, track-mounting F max. 100 N [10 kg].

Available colour: white



Reference number	Dimensions [mm]
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Recessed height (He): 37 mm

Price Category 21

70382.000	D 26, H 60
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Bending tool for 3-circuit DALI tracks

The ends of the copper conductor must be bent inwards when cutting tracks on site in order to ensure an electrical connection.
Available colour: blue

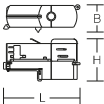
Reference number	Dimensions [mm]
Bending tool for 3-circuit DALI tracks	
70348.000	L 133, B 22, H 14

Price Category 21



3-phase DALI adaptor

Protection class: I
Plastic, max. 10 A/250 V~, F max. 100 N [10 kg].
Selector with circuit breaker and mechanical lock.
Only for RZB 3-circuit DALI track
Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
Recessed height (He): 30 mm	
701055.01X	L 105, B 39, H 62

Price Category 21



Multi adaptor with Schukoplug socket for 3-circuit tracks and for RZB 3-circuit DALI tracks

Protection class: I
Multi adaptor for 3-circuit tracks of all known brands, plastic, max. 10 A / 250 V ~.
Rotatable circuit selector with circuit breaker and mechanical lock; with Schukoplug socket; only for lighting or lighting accessories.
Available colour: 2 = white

Reference number	Dimensions [mm]
Multi adaptor with Schukoplug socket for 3-circuit tracks	
70316.002	L 90, B 57, H 73

Price Category 21



Strain relief for multi adaptor and 3-phase DALI adaptor

Plastic
Available colours (X): 2 = white, 3 = black

Reference number	Dimensions [mm]
Recessed height (He): 30 mm	
70875.00X	D 26, H 33

Price Category 21



LECKER LEICHT
LUFTIG SCHMACKHAFT

Tolle
BACKMISCHUNG



The application image shows:
LINEDO
DEECOS S



INDOOR LIGHTING | Continuous line luminaire system



Tunable White



HCL ready



UGR ≤ 19



DALI



IoTready



CLO
Constant
Light Output



D



ENEC



HACCP



Plug & Play



IP54



IP54

LINEDO

Theoretically, a light band. Practically a revolution.

- Ready-to install, stylish single-component continuous line luminaire system.
- Ultra-fast installation through Plug & Play modules .
- Over 30% weight-reduced extruded aluminum profile with minimal dimensions.
- 5, 7- or 14-pole through-wiring as standard.
- 7 light distributions and 5 performance levels cover almost any lighting task in industry, shops, offices and public buildings.
- Ideally suited for office environments (UGR ≤ 19 when using certain optics and luminous flux) in compliance with DIN EN 12464-1.
- Luminous efficacy up to 180 lm/W.
- Numerous functional modules, e.g. spotlights, emergency lighting, sensors...
- Up to 10 years warranty.
- LED rated life 80,000h (L_{CLO}) DALI/CLO controlled - High planning reliability thanks to constant light output throughout the entire service life.
- **ENEC** (European Norms Electrical Certification) certified.
- IoT ready – control and monitoring via DALI-2 Standard (on request).
- Plan your continuous line luminaire in just a few steps using the LINEDO app. Available for Android and IOS.



The RZB Premium Service is your support partner before, during and after system installation. Take advantage of our services. We advise, plan individually, monitor and finance your lighting system. We will as well program and commission the lighting on site.

1 Components



4 Standard lengths

598 mm	1,163 mm	2,291 mm	4,547 mm	project specific solutions
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1 Protection type

IP 54

3 Colours



2 Type of mounting



4 Optical systems



7 Light distribution options



5 Output levels

13	19	27	33	42	,000 lm / 4.5 m
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3 Colour temperatures

830	840	850	TW	project specific solutions CRI > 90
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2 Switching types

on/off	DALI
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3 Through-wirings

5 pole	7 pole	14 pole
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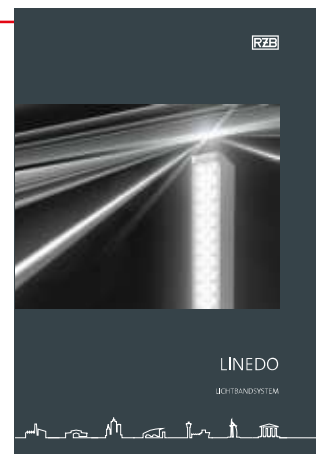
The configurator for the continuous line luminaire system in your web browser.



Design your LINEDO luminaire easily on your personal device with the RZB LINEDO App.



You can find further information, examples of projects and ordering advice in our comprehensive LINEDO brochure as PDF and in printed form.



LINEDO®

One solution for all applications



Lens optics
for symmetrical
light distribution (30°, 60°, 90°).

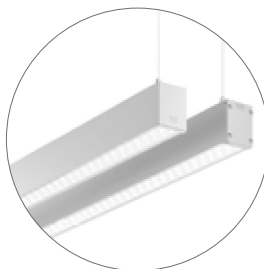
Lens optics
for asymmetrical and double
asymmetrical light distribution.

Flush-mounted opal diffuser
for uniform light distribution.

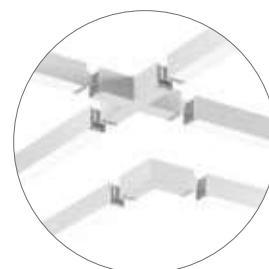
High opal diffuser for wider
uniform light distribution with
increased proportion of
indirect light.



Tunable White version
with light colour 827 to 865,
controllable via DALI (via Casambi
smart+free on request).



LINEDO Single
Perfect as a single luminaire in the office,
at workstations or in shops: The LINEDO single
luminaire is available in IP 20 and IP 54.



Shaped connectors
are suitable for ceiling mounting
and pendant suspension.

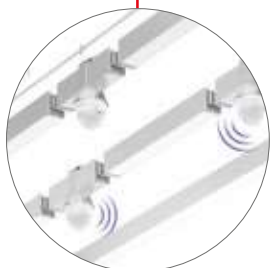
X-, L- and T-shaped connectors with the same
look as the LINEDO continuous line luminaire.



HACCP accessories:
The transparent film is clamped into the grooves
of the LINEDO profile and prevents dirt from
settling on the profile.



There is a special end cap to
neatly cover the end of the
LINEDO line.



The modules for sensors
in accordance with the Zhaga standard
can be equipped with suitable sensor
variants as required.

Control within the LINEDO continuous
line luminaire via DALI, communica-
tion between separate continuous line
luminaires and Bluetooth® modules via
Bluetooth® Mesh.



Fully integrated:

LINEDO modules for unobtrusive integration into a central emergency power supply ensure the lighting of escape routes when needed.

Escape route identification with 2,5 m power cable can be positioned individually along the LINEDO system profile and rotated by 90°.

Customisable

In addition LINEDO can be customised individually according to your project needs as well.

Modules

with integrated 3-circuit tracks or with 3-circuit DALI tracks for flexible installation of projectors, pendant luminaires and accessories.



Ball impact resistance:

The pendant suspension with a combination of eyelet, spring hook and knotted chain avoids unhooking.

The strengthened connector has two additional clips for an impact resistant connection.

A special bracket surrounds the profile and lens optic for protection.

Modules

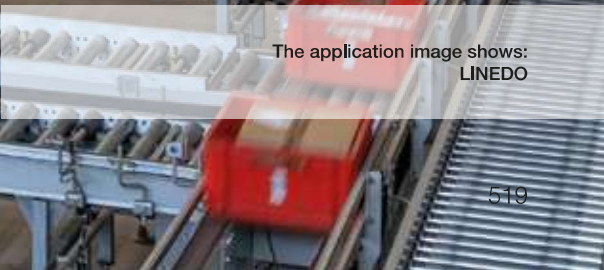
with 1, 2 or 3 Deecos S Mini projectors with different lighting characteristics or TX-MOVE floodlights.

Adapter for integration of third-party luminaires.





© Linus Luthen



The application image shows:
LINEDO



The application image shows:
PLANOX TUBE



PLANOX PRO
522-525

PLANOX ECO
PLANOX ECO FARM
526-531

PLANOX TUBE
PLANOX TUBE FARM
532-537

PLANOX
PLANOX FARM
538-543

PLANOX PRO

Everything at a glance



Can be opened and closed without tools using a turn lock fastener, cable screw fitting as standard.



Housing and end caps made of shockproof polycarbonate (PC).

Sealed as standard.

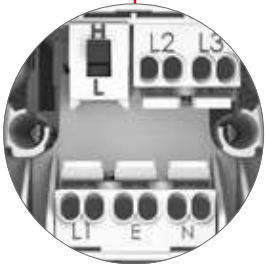


Simple connection by means of terminal with push-on connector.
On-board through-wiring as standard, (on/off: 5 x 1,5 mm² | DALI: 7 x 1,5 mm²).

MultiLumen version:
2 steps adjustable luminous flux (L=Low/H=High).
The initial setting is "H" (high lumen).



Thanks to the switch in the luminaire the lumen output can easily be changed even after installation.

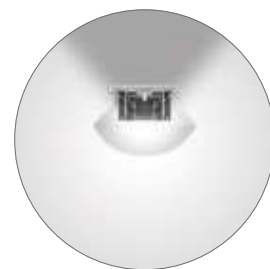




Also available as an emergency luminaire for central power systems in accordance with EN 60598-2-22.

Indirect light to illuminate the ceiling.

Homogeneous illumination through satin finish diffuser.



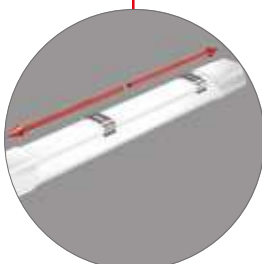
Suitable for use in the food and drink industry.



Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Flexible installation through sliding mounting bracket.

Ideal for luminaire replacement.



The UV-resistant diffuser with inner prisms guarantees uniform light output.



DALI



IP66

IK08



reddot award 2018
winner

PLANOX PRO

Ceiling and wall luminaires

ARCHITECTURE

- **Robust:** IP 66 / IK08 - High types of protection for tough requirements. Housing and end caps made of shockproof polycarbonate.
- **Certified:** Qualified for use in the food and drink industry.
- **Safe:** Luminaire with limited surface temperature in accordance with EN 60598-2-24.
- **Combinable:** Also available as an emergency luminaire in accordance with EN 60598-2-22.

LIGHTING DESIGN

- **Efficient:** Luminous efficacy up to 153 lm/W.
- **Variable:** MultiLumen - several steps adjustable luminous flux.
- **Uniform:** The UV-resistant diffuser with inner prisms guarantees homogenous light distribution.
- **Reliable planning:** Suitable for lighting in public car parks and public off-street parking spaces according to DIN 67528.

INSTALLATION

- **Easy installation:** Tool-free opening and closing with twist lock.
- **Standard:** Through-wiring for additional luminaires.
- **Versatile:** Surface and pendant mounting.
- **Flexible:** Sliding mounting brackets. Ideal for luminaire replacement.
- **Integrated:** Cable entries at both ends.



This luminaire is also available as self-contained and/or emergency luminaire for central battery systems according to EN 60598 2-22 – further information page 11.

Ceiling and wall luminaires | PLANOX PRO

Type of protection: **IP 66**

Protection class: II

Impact protection: IK08

Side panels: plastic, white polycarbonate, shockproof. Diffuser made of plastic (polycarbonate), opal, shockproof. Converter encapsulated, integrated and permanently connected to the diffuser and side panel. Cable screw fittings for convenient wiring. Turn lock fastener on both sides for easy installation. Luminaire with integrated through-wiring for lining up further luminaires. Ceiling mounting stainless steel brackets and triangular brackets for pendant mounting included in delivery.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 2 = white

MultiLumen: 2 steps adjustable luminous flux. Factory setting is the highest luminous flux.



Ceiling, wall and pendant luminaires

Length L 750 mm

451204.002 L 750, B 88, H 63

451204.002.76 L 750, B 88, H 63

Length L 1350 mm

451220.002 * L 1350, B 88, H 63

451206.002.76 L 1350, B 88, H 63

Length L 1650 mm

451221.002 .Q* L 1650, B 88, H 63

451208.002.76 L 1650, B 88, H 63

* MultiLumen

Light
colour

Luminous
flux
[lm]

System
power
[W]

System
efficiency*
[lm/W]

Lighting
control



Price Category 11

End piece for turn lock fastener with D 25 mm

982394.002 D 25, H 13

Price Category 11

Mounting brackets made of stainless steel (theft protection) for ceiling and wall mounting

982395.000 L 130, B 13, H 61

Price Category 11

Comparison LED vs. conventional lamps

LED 14 W ≈

2 x 14 W T16 (36 W Psys)

2 x 18 W T26 (62 W Psys)

LED 21 W ≈

1 x 36 W T26 (37 W Psys)

1 x 54 W T16 (58 W Psys)

LED 27 W ≈

1 x 58 W T26 (59 W Psys)

1 x 80 W T16 (86 W Psys)

LED 35 W ≈

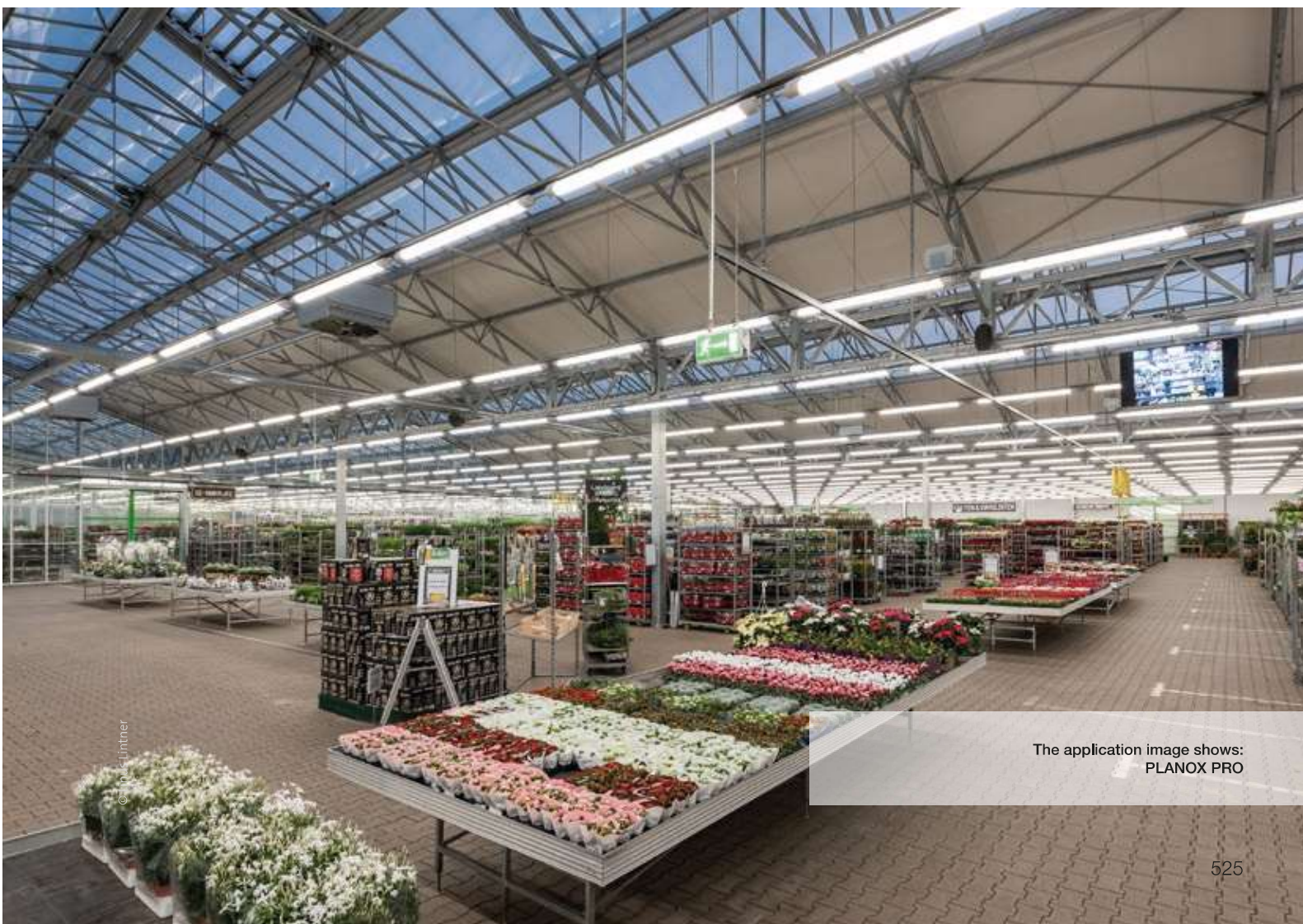
2 x 36 W T26 (74 W Psys)

2 x 54 W T16 (115 W Psys)

LED 48 W ≈

2 x 58 W T26 (118 W Psys)

2 x 80 W T16 (172 W Psys)



The application image shows:
PLANOX PRO

PLANOX ECO | PLANOX ECO FARM

Everything at a glance

Sealed as standard.

Can be opened and closed without tools using a turn lock fastener.
Cable screw fitting as standard.

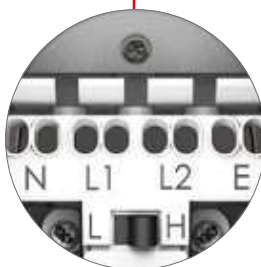
MultiLumen version:

The user can choose from several different luminous flux levels.

- 2 levels (**L**=Low/**H**=High)
- 3 levels (**L**=Low/**M**=Middle/**H**=High)

Thanks to the switch in the luminaire the lumen output can easily be changed even after installation.

The initial setting is "H" (high lumen).

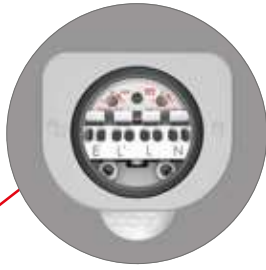


PLANOX ECO:
Versions with infrared movement sensor:
adjustable time delay of 10 s to 20 min and response brightness of 0 to 90 lux.

IK08



PLANOX ECO:
Diffuser and end caps made of shockproof polycarbonate.



The sensitivity and time regulation can simply be adjusted with movement sensor model.

Master-Slave operation possible.



Also available as an emergency luminaire in accordance with EN 60598-2-22.



Qualified for use in the food and drink industry.



PLANOX ECO FARM

Certified by DLG. This luminaire is resistant to ammonia and is suitable for high pressure cleaning with a min. distance of 10 cm.

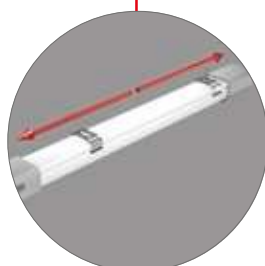
Therefore ideally useable in livestock housing and agricultural buildings.

Diffuser and end caps made of ammonia resistant PMMA.

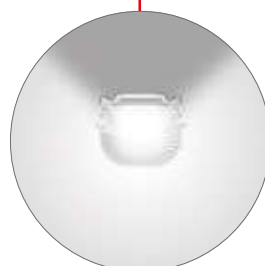


Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Flexible installation thanks to sliding mounting bracket.
Ideal for luminaire replacement.



Indirect light to illuminate the ceiling.
Homogeneous illumination through satin finish diffuser.





DALI



IP66

IK08

PLANOX ECO | PLANOX ECO FARM

Ceiling and wall luminaires

ARCHITECTURE

- **Protected:** IP 66 - High type of protection for tough requirements.
- **Robust:** IK08 - Versions with diffuser made of shockproof polycarbonate.
- **Versatile:** Ammonia-resistant version DLG approved.
- **Certified:** Qualified for use in the food and drink industry.
- **Safe:** Luminaire with limited surface temperature in accordance with EN 60598-2-24.

LIGHTING DESIGN

- **Powerful:** High luminous flux up to 9000 lm.
- **Efficient:** Luminous efficacy up to 157 lm/W.
- **Variable:** MultiLumen - several steps adjustable luminous flux.
- **Uniform:** The diffuser with inner prisms guarantees homogenous light distribution.
- **Dynamic:** Versions with infrared movement sensor.
- **Reliable planning:** Suitable for lighting in public car parks and public off-street parking spaces according to DIN 67528.

INSTALLATION

- **Easy installation:** Tool-free opening and closing with twist lock.
- **Standard:** Through-wiring for additional luminaires.
- **Versatile:** Surface and pendant mounting.
- **Flexible:** Sliding mounting brackets. Ideal for luminaire replacement.
- **Integrated:** Cable entries at both ends.

Ceiling and wall luminaires | PLANOX ECO

Type of protection: **IP 66**

Protection class: II

Impact protection: IK08

Side panels: plastic, grey polycarbonate, shockproof. Diffuser: plastic (non-yellowing polycarbonate), opal, impact resistant. Converter encapsulated, integrated and permanently connected to the diffuser and side panel. Cable screw fittings for convenient wiring. Turn lock fastener on both sides for easy installation. Luminaire with integrated through-wiring for lining up further luminaires. Ceiling mounting stainless steel brackets and triangular brackets for pendant mounting included in delivery.

⚠ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 9 = grey

MultiLumen: 2 or 3 steps adjustable luminous flux. Factory setting is the highest luminous flux.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	
Ceiling, wall and pendant luminaires							Price Category 11
451210.009.Q	L 769, B 61, H 50	840	1100/2100	9/17	124	on/off	✓
451210.009.76	L 852, B 61, H 50	840	2100	16	132	DALI	
451218.009.3	L 1369, B 61, H 50	830	2800/4600	22/37	128	on/off	
451218.009.Q	L 1369, B 61, H 50	840	3050/4950	22/37	139	on/off	✓
451218.009.76	L 1452, B 61, H 50	840	4950	36	138	DALI	
451219.009.2	L 1669, B 61, H 50	830	4350/6300	33/54	132	on/off	
451219.009.Q	L 1669, B 61, H 50	840	4700/6800	33/54	143	on/off	✓
451219.009.76	L 1752, B 61, H 50	840	6800	50	136	DALI	
451236.009.1	L 1680, B 61, H 50	830	4700...8600	32...62	147	on/off	
451236.009	L 1680, B 61, H 50	840	5000...9000	32...62	157	on/off	

MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

End piece for turn lock fastener with D 25 mm							Price Category 11
982179.009	D 25, H 13						

Mounting brackets made of stainless steel (theft protection) for ceiling and wall mounting							Price Category 11
982430.000	L 146, B 16, H 38						

Comparison LED vs. conventional lamps

LED 9 W ≈

1 x 21 W T16 (24 W Psys)

LED 16 / 17 W ≈

1 x 39 W T16 (41 W Psys)

LED 22 W ≈

1 x 54 W T16 (58 W Psys)

1 x 58 W T26 (59 W Psys)

LED 32 / 33 / 36 / 37 W ≈

1 x 80 W T16 (86 W Psys)

LED 50 / 54 W ≈

2 x 58 W T26 (118 W Psys)

LED 62 W ≈

3 x 58 W T26 (177 W)

Ceiling and wall luminaires | PLANOX ECO - movement sensor

Type of protection: **IP 66**

Protection class: II

Impact protection: IK08

Side panels: plastic, grey polycarbonate, shockproof. Diffuser: plastic (non-yellowing polycarbonate), opal, impact resistant. Converter encapsulated, integrated and permanently connected to the diffuser and side panel. Cable screw fittings for convenient wiring. Turn lock fastener on both sides for easy installation. Luminaire with integrated 4-phase through-wiring to connect multiple luminaires. Ceiling mounting stainless steel brackets and triangular brackets for pendant mounting included in delivery. With integrated movement sensor. Master-Slave operation possible.

⚠ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 9 = grey

MultiLumen: 2 steps adjustable luminous flux. Factory setting is the highest luminous flux.



Functional parameters of the motion detector:

- Holding time: 10 sec. - 20 min., adjustable in 5 steps.
- Range: up to 14.4 m (depending on mounting height).
- Brightness sensor: adjustable in 5 steps.
- Factory setting: hold time 10 sec., brightness threshold deactivated, detection range 100%.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Ceiling, wall and pendant luminaires with movement sensor						
451210.009.19.Q	L 800, B 66, H 71	840	1100/2100	9/17	124	on/off
451218.009.19.Q	L 1400, B 66, H 71	840	3050/4950	22/37	139	on/off
451219.009.19.Q	L 1700, B 66, H 71	840	4700/6800	33/54	143	on/off

MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

End piece for turn lock fastener with D 25 mm							Price Category 11
982179.009	D 25, H 13						

This luminaire is also available as self-contained and/or emergency luminaire for central battery systems according to EN 60598 2-22 – further information page 11.



Comparison
LED vs. conventional lamps

- LED 22 W ≈**
1 x 54 W T16 (58 W Psys)
1 x 58 W T26 (59 W Psys)
- LED 33 / 37 W ≈**
1 x 80 W T16 (86 W Psys)
- LED 54 W ≈**
2 x 58 W T26 (118 W Psys)

Ceiling and wall luminaires | PLANOX ECO FARM

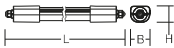
Type of protection: **IP 66**
Protection class: II
Impact protection: IK07

Side panels: plastic, grey polyamide. Diffuser made of non-yellowing plastic (PMMA), opal. Converter encapsulated, integrated and permanently connected to the diffuser and side panel. Cable screw fittings for convenient wiring. Luminaire with integrated 4-phase through-wiring to connect multiple luminaires. Ceiling mounting stainless steel brackets and triangular brackets for pendant mounting included in delivery.

⚠ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Ammonia resistant : Suitable for the use in stables with livestock and agricultural side areas.

Available colour: 9 = grey



MultiLumen: 2 steps adjustable luminous flux. Factory setting is the highest luminous flux.

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Ceiling, wall and pendant luminaires						Price Category 11
451212.009.1	L 1369, B 61, H 50	840	3050/4950	22/37	139	on/off
451214.009.1 .Q	L 1669, B 61, H 50	840	4700/6800	33/54	143	on/off
MultiLumen : Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com .						
Turn lock fastening						Price Category 11
982429.019	D 44, H 41					
Mounting brackets made of stainless steel (theft protection) for ceiling and wall mounting						Price Category 11
982430.000	L 146, B 16, H 38					



PLANOX TUBE | PLANOX TUBE FARM

Everything at a glance



No disposable luminaire thanks to interchangeable components.



PLANOX TUBE:
Versions with HF movement sensor: adjustable via the Casambi app.

Mesh sensors create a wireless connection between each other. This allows for flexible configuration via smartphone or tablet.



Homogeneous light distribution thanks to opal diffuser.

Tool-free opening and closing with twist lock.



End cap with Plug & Play Wieland RST® CLASSIC plug-in system for easy installation and maintenance.



Diffuser and end caps made of shockproof plastic.



Certified by DLG. This luminaire is resistant to ammonia and is suitable for high pressure cleaning with a min. distance of 5 cm. Therefore ideally useable in barns with livestock and agricultural side areas.



Qualified for use in the food and drink industry.



Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.



Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.

Indirect light to illuminate the ceiling.





PLANOX TUBE | PLANOX TUBE FARM

Tube luminaires

ARCHITECTURE

- **Robust:** IP 67 / IK08 - High types of protection for tough requirements.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.
- **Certified:** Qualified for use in the food and drink industry.
- **Safe:** Luminaire with limited surface temperature in accordance with EN 60598-2-24.
- **Versatile:** Ammonia-resistant version DLG approved.

LIGHTING DESIGN

- **Powerful:** High luminous flux up to 10000 lm.
- **Efficient:** Good luminous efficacy of up to 162 lm/W.
- **Long service life:** Extended rated LED rated 72000 h (L80).
- **Flexible:** Selectable direction of light output by turning the luminaire in the retaining clips.
- **Dynamic:** Versions with movement sensor.
- **Reliable planning:** Suitable for lighting in public car parks and public off-street parking spaces according to DIN 67528.

INSTALLATION

- **Easy installation:** No need to open the luminaire for electrical connection thanks to Plug & Play connection system Wieland RST® CLASSIC.
- **Standard:** Versions with through wiring.
- **Versatile:** Surface and pendant mounting.
- **Flexible:** Variable installation thanks to customisable positioning of retaining clips along the length of the luminaire.
- **Connected:** Versions with Casambi smart+free Bluetooth® control system for wireless network.

Tube luminaires | PLANOX TUBE

Type of protection: **IP 67**

Protection class: I

Impact protection: IK08

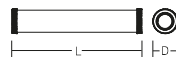
Diffuser made of plastic (polycarbonate), opal, shockproof. Rack made of sheet steel, white powder-coated. End caps made of plastic (polyamide) grey. Driver integrated. Easy installation with the Plug & Play Wieland RST® CLASSIC plug-in system. Version without through wiring including RST CLASSIC plug connector for electrical connection. Version with through wiring including pre-assembled RST CLASSIC plug / socket through wiring. Please order accessories for the electrical connection separately.

Mounting set must be ordered separately.

⚠ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 31 W ≈

2 x 35 W T16 (76 W Psys)

LED 39 W ≈

3 x 35 W T16 (113 W Psys)

LED 62 W ≈

4 x 35 W T16 (150 W Psys)



Tube luminaires

with through wiring

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency [#] [lm/W]	Lighting control	Price Category 11
601070.002.1	D 78, L 722	840	3500	31	113	on/off	
601070.002.1.76	D 78, L 722	840	3500	31	113	DALI	
601070.002.1.730	D 78, L 722	840	3500	31	113	smart+free	
601071.002.1	D 78, L 1280	840	5350	39	138	on/off	
601071.002.1.76	D 78, L 1280	840	5350	39	138	DALI	
601071.002.1.730	D 78, L 1280	840	5350	39	138	smart+free	
601072.002.1	D 78, L 1568	840	8650	62	140	on/off	
601072.002.1.76	D 78, L 1568	840	8650	62	140	DALI	
601072.002.1.730	D 78, L 1568	840	8650	62	140	smart+free	

without through wiring

601070.002	D 78, L 722	840	3500	31	113	on/off	
601070.002.76	D 78, L 722	840	3500	31	113	DALI	
601070.002.730	D 78, L 722	840	3500	31	113	smart+free	
601071.002	D 78, L 1280	840	5350	39	138	on/off	
601071.002.76	D 78, L 1280	840	5350	39	138	DALI	
601071.002.730	D 78, L 1280	840	5350	39	138	smart+free	
601072.002	D 78, L 1568	840	8650	62	140	on/off	
601072.002.76	D 78, L 1568	840	8650	62	140	DALI	
601072.002.730	D 78, L 1568	840	8650	62	140	smart+free	

Wall or ceiling installation

Reference number	Dimensions [mm]	Description	Price Category 11
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982117.009 L 98, B 21, H 93 Mounting bracket plastic (set 2 pieces).



Pendant mounting

Reference number	Dimensions [mm]	Description	Price Category 11
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982118.000 L 75, B 28, H 113 Mounting brackets with hanger assembly made of stainless steel (set 2 pieces)



Accessories for the electrical connection of on/off and Casambi smart+free luminaires with through wiring

Reference number	Dimensions [mm]	Description	Price Category 11
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982766.003 D 23, H 29 End cap
982764.006 L 79, B 35, H 35 Connector, 3 pole, with plug and socket
982765.006 L 82, B 35, H 35 Socket for feed-in

Accessories for the electrical connection of DALI luminaires with through wiring

Reference number	Dimensions [mm]	Description	Price Category 11
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982715.003 D 30, H 32 End cap
982713.006 L 81, B 35, H 35 Connector, 5 pole, with plug and socket
982714.006 L 81, B 35, H 35 Socket for feed-in



Comparison LED vs. conventional lamps

LED 31 W ≈

2 x 35 W T16 (76 W Psys)

LED 39 W ≈

3 x 35 W T16 (113 W Psys)

LED 62 W ≈

4 x 35 W T16 (150 W Psys)

Tube luminaires | PLANOX TUBE - movement sensor

Type of protection: **IP 67**

Protection class: I

Impact protection: IK08

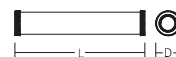
Diffuser made of plastic (polycarbonate), opal, shockproof. Rack made of sheet steel, white powder-coated. End caps made of plastic (polyamide) grey. Driver integrated. Easy installation with the Plug & Play Wieland RST® CLASSIC plug-in system. Version without through wiring including RST CLASSIC plug connector for electrical connection. Version with through wiring including pre-assembled RST CLASSIC plug / socket through wiring. Please order accessories for the electrical connection separately.

With integrated Casambi smart+free Bluetooth® light and motion detector for wireless networking and operation using an Android / iOS device, free app available for download.

Mounting set must be ordered separately.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 2 = white



Functional parameters of the motion detector:

- Holding time: adjustable via Casambi app.
- Range: up to 6 m; adjustable in 4 steps.
- Brightness sensor: adjustable in 5 steps.
- Factory setting: hold time adjustable via Casambi app, brightness threshold deactivated, detection range 100%.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Tube luminaires with integrated movement sensor						Price Category 11
with through wiring						
601070.002.1.730HF	D 78, L 792	840	3500	31	113	smart+free
601071.002.1.730HF	D 78, L 1349	840	5350	39	137	smart+free
601072.002.1.730HF	D 78, L 1631	840	8650	62	140	smart+free
without through wiring						
601070.002.730HF	D 78, L 791	840	3500	31	113	smart+free
601071.002.730HF	D 78, L 1349	840	5350	39	137	smart+free
601072.002.730HF	D 78, L 1631	840	8650	62	140	smart+free



Pendant mounting			Price Category 11
982118.000	L 75, B 28, H 113	Mounting brackets with hanger assembly made of stainless steel (set 2 pieces)	



Wall or ceiling installation			Price Category 11
982117.009	L 98, B 21, H 93	Mounting bracket plastic (set 2 pieces).	

Accessories for the electrical connection of on/off and Casambi smart+free luminaires with through wiring			Price Category 11
982766.003	D 23, H 29	End cap	
982764.006	L 79, B 35, H 35	Connector, 3 pole, with plug and socket	
982765.006	L 82, B 35, H 35	Socket for feed-in	

Tube luminaires | PLANOX TUBE FARM

Type of protection: **IP 67**

Protection class: I

Impact protection: IK08

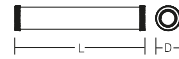
Diffuser made of UV-resistant plastic (PMMA), opal. Rack made of sheet steel, white powder-coated. End caps made of plastic (polyamide) grey. Driver integrated. Easy installation with the Plug & Play Wieland RST® CLASSIC plug-in system.

Mounting set must be ordered separately.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Ammonia resistant : Suitable for the use in stables with livestock and agricultural side areas.

Available colour: 2 = white



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control
Tube luminaires						
601070.002.5	D 78, L 722	840	4050	31	131	on/off
601071.002.5	D 78, L 1280	840	6250	39	161	on/off
601072.002.5	D 78, L 1568	840	10000	62	162	on/off

Comparison LED vs. conventional lamps

LED 31 W ≈

2 x 39 W T16 (82 W Psys)

LED 39 W ≈

3 x 39 W T16 (123 W Psys)

LED 62 W ≈

4 x 39 W T16 (164 W Psys)

Pendant mounting

Price Category 11

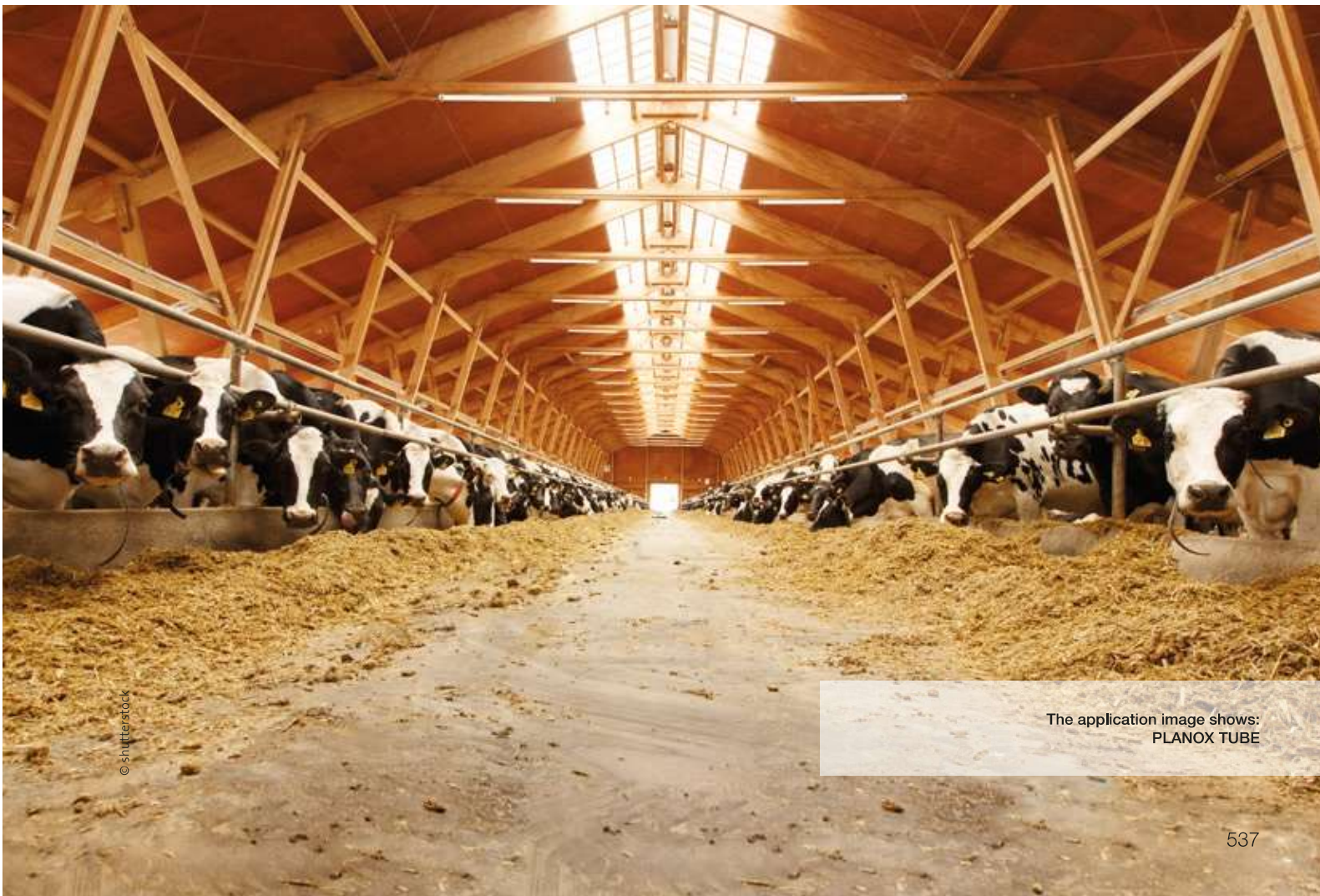
982118.000	L 75, B 28, H 113	Mounting brackets with hanger assembly made of stainless steel (set 2 pieces)
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Wall or ceiling installation

Price Category 11

982118.010	L 125, B 28, H 175	Mounting brackets made of stainless steel with hanger bolts (set 2 pieces)
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The application image shows:
PLANOX TUBE

PLANOX

Everything at a glance



IK08

Versions with housing and diffuser made of shockproof polycarbonate.



Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Luminaires with limited surface temperature in accordance with EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Ideal for modernisations thanks to the possibility of central feed.

MultiLumen version:

The user can choose from two different luminous flux levels (LO=Low/HO=High).

Thanks to the switch in the luminaire the lumen output can easily be changed even after installation.

The initial setting is "HO" (high lumen).



IP66

Injected silicone-based seal with increased resistance even under extreme conditions.



Flexible and easy installation thanks to sliding quick-fix brackets made of stainless steel and diffuser with integrated gear tray as well as variable cable entry (face or rear sided).



Also available as an emergency luminaire in accordance with EN 60598-2-22



Stainless steel clips.

Suspension device for securing the diffuser.



Qualified for use in the food and drink industry.

Homogeneous illumination thanks to opal diffuser with excellent light transmission of up to 90%.



Not a disposable luminaire thanks to replaceable components.



PLANOX FARM

Ideally useable in barns with livestock and agricultural side areas.



DALI



IP66

IK08

PLANOX | PLANOX FARM

Ceiling and wall luminaires

ARCHITECTURE

- **Protected:** IP 66 - High type of protection for tough requirements.
- **Robust:** IK08 - Versions with diffuser made of shockproof polycarbonate.
- **Safe:** Luminaire with limited surface temperature in accordance with EN 60598-2-24.
- **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.
- **Certified:** Qualified for use in the food and drink industry.
- **Advantageous:** Ideal for modernisations thanks to the possibility of central feed.

LIGHTING DESIGN

- **Powerful:** High luminous flux up to 9200 lm.
- **Efficient:** Very good luminous efficiency of up to 164 lm/W.
- **Long service life:** Extended LED rated life up to 100,000 h (L80).
- **Variable:** MultiLumen - 2-step adjustable luminous flux without tools.
- **Dynamic:** Versions with movement sensor.
- **Reliable planning:** Suitable for lighting in public car parks and public off-street parking spaces according to DIN 67528.

INSTALLATION

- **Easy installation:** Variable cable entry (face or rear sided).
- **Straightforward:** Simple, fast and flexible installation due to plug-in system.
- **Standard:** Through-wiring for additional luminaires.
- **Versatile:** Surface and pendant mounting.
- **Flexible:** Sliding mounting brackets. Ideal for luminaire replacement.
- **Connected:** Versions with Casambi smart+free Bluetooth® control system for wireless network.

Ceiling and wall luminaires | PLANOX

Type of protection: **IP 66**

Protection class: I

Impact protection: IK04 (PMMA), IK08 (polycarbonate)

Housing made of shockproof, UV-resistant plastic (polycarbonate). Injected silicone-based seal with increased resistance even under extreme conditions. Diffuser made of UV-resistant opal plastic (PMMA) or shockproof opal plastic (polycarbonate) with excellent light transmission of up to 90%. Flexible and easy installation thanks to sliding quick-fix brackets made of stainless steel and diffuser with integrated gear tray as well as variable cable entry (face or rear sided). Through-wiring (2.5mm²) as standard. Ceiling mounting stainless steel brackets and triangular brackets for pendant mounting included in delivery.

⚠ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

MultiLumen: 2 steps adjustable luminous flux. Factory setting is the highest luminous flux.

Available colour: 9 = grey

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Lighting control	
Ceiling, wall and pendant luminaires							
Diffuser: plastic (polycarbonate)							
Length 615 mm							
451230.009	L 615, B 102, H 85	840	2000/3100	14/22	143	on/off	✓
451230.009.76	L 615, B 102, H 85	840	2000/3100	14/22	143	DALI	
451230.009.730	L 615, B 102, H 85	840	3100	22	141	smart+free	
451231.009	L 1174, B 102, H 85	840	4400/6400	29/43	152	on/off	✓
451231.009.76	L 1174, B 102, H 85	840	4400/6400	29/43	152	DALI	
451231.009.730	L 1174, B 102, H 85	840	6400	43	149	smart+free	
451232.009	L 1454, B 102, H 85	840	6700/8600	44/57	152	on/off	✓
451232.009.76	L 1454, B 102, H 85	840	6700/8600	44/57	152	DALI	
451232.009.730	L 1454, B 102, H 85	840	8600	57	151	smart+free	
Diffuser: plastic (PMMA)							
451233.009	L 615, B 102, H 85	840	2200/3400	14/22	157	on/off	✓
451233.009.76	L 615, B 102, H 85	840	2200/3400	14/22	157	DALI	
451233.009.730	L 615, B 102, H 85	840	3400	22	155	smart+free	
451234.009	L 1174, B 102, H 85	840	4700/6900	29/43	162	on/off	✓
451234.009.76	L 1174, B 102, H 85	840	4700/6900	29/43	162	DALI	
451234.009.730	L 1174, B 102, H 85	840	6900	43	160	smart+free	
451235.009	L 1454, B 102, H 85	840	7200/9200	44/57	164	on/off	✓
451235.009.76	L 1454, B 102, H 85	840	7200/9200	44/57	164	DALI	
451235.009.730	L 1454, B 102, H 85	840	9200	57	161	smart+free	

MultiLumen: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Comparison LED vs. conventional lamps

LED 14 W ≈

1 x 36 W T26 (37 W Psys)

LED 22 W ≈

1 x 58 W T26 (59 W Psys)

LED 29 W ≈

2 x 36 W T26 (74 W Psys)

LED 43 / 44 W ≈

3 x 36 W T26 (111 W Psys)
2 x 58 W T26 (118 W Psys)

LED 57 W ≈

3 x 58 W T26 (177 W Psys)



This luminaire is also available as self-contained and/or emergency luminaire for central battery systems according to EN 60598 2-22 – further information page 11.