

Gypsum Cell



Downlights | 3 x powerLEDs 6 W DC 630 mA | CRI 90
64546M45



160 x
90

Technical data	
Type	Encasement without flange
Installation position	Ceiling
Installation environment	Indoor
Light Source	LED
Circuit structure	powerLEDs
Optics	Medium Wide Flood
Light emission direction	downward
Nominal power	6 W DC
Source lumens	597 lm
Input voltage range	630mA
CCT / Tone	2700 K
Colour rendering index	90 Ra
C.C. / C.V.	CC
Safety class	3
IP	IP20
Glow wire test	850°
Direct mounting on normally flammable surfaces	Yes
CE	Yes
Driver included	No
Dimmable article	DALI - 1-10V
Directional	No
Tilting	No
Walk-over	No
Drive-over	No
Cable included	Yes
Cable length	0.170 m
Resin potting	No
Type of light emission	Single emission
Net weight	0.500 Kg
Electrostatic discharge protection	No
Surge protection	No
Product technological characteristics	TVS

Finishing casing

Material	plaster
Colour	white


Finishing diffuser

Material	Polyamide
Colour	black


Finishing radiator


Material	Aluminium 6060
Colour	Anodised Black
Processing	15 µm Anodizing

Electronics

	99115 1-10V - N/O button Multi Power 198~264V AC / 180~275V DC (1 - 3 art.)
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	99105 On/Off Driver 198~264V AC (2 - 4 art.)
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	99376 On/Off Driver 198~264V AC (1 - 2 art.)
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	C-E100001 Push and Simply Dim - DALI-2 Multi Power 198~264V AC / 180~275V DC (2 - 4 art.)
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Cables Electrification

Cable connector	No
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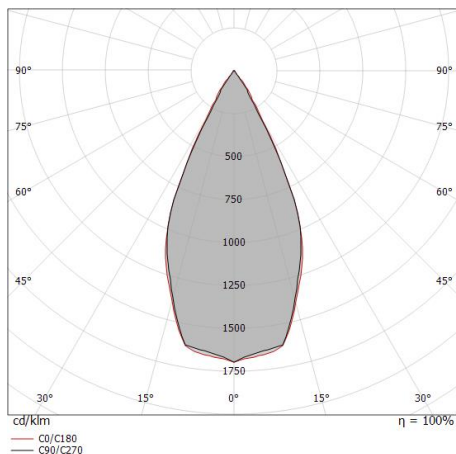
Single emission recessed downlights for indoor application. The super warm white LED light source is composed of 3 powered LEDs with CCT of 2700 K and a CRI 90; the source luminous flux is 597 lm, with a 99.5 lm/W nominal luminous efficacy.

The device body is made of plaster and features a white finish; the diffuser is made of polyamide. The ingress protection degree is IP20; the total weight is of 0.500 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 6 W. The power supply cable is included and features a 0.170 m length.

The device features protection class III and can be ceiling-mounted, with a 160 x 90 mm hole (in plasterboard).

Compliant with the EN 60598-1 standard and its specific provisions.



Distance [m]	Cone diameter [m]	Illuminance [lx]
0.5	0.46	$E(0^\circ)$ 2123 $E(C0)$ 803
1.0	0.92	$E(0^\circ)$ 531 $E(C0)$ 201
1.5	1.38	$E(0^\circ)$ 236 $E(C0)$ 89
2.0	1.84	$E(0^\circ)$ 133 $E(C0)$ 50
2.5	2.30	$E(0^\circ)$ 85 $E(C0)$ 32
3.0	2.76	$E(0^\circ)$ 59 $E(C0)$ 22

Distance [m] Cone diameter [m] Illuminance [lx]
— C0/C180 (Half-peak divergence: 49.4°)

Energy efficiency class

This product contains a light source of energy efficiency class F.

Illuminotechnical Features

Light Output Ratio (LOR)	52 %
Source lumens	597 lm
Delivered lumens	314 lm
Consumption	6 W
Luminaire efficacy	52 lm/W
Colour temperature	2700 K
Standard Deviation of Colour Matching	3 Step MacAdam
Colour rendering index	90 Ra

Standard Operating Ambient Temperature -20 / +50°C

Ordinary temperature on the glass 40°C

LED Life / Failure Ratio

L70 B20 C0 214455h (at Tj 60 Ta 25)

UGR

UGR axial	9.2
UGR transversal	10.4
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

C0/C180 optics	49°
Light distribution simmetry	Symmetrical



Spacer - KIT thicknesses for installation on plasterboard

Code

60830