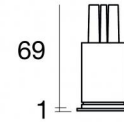




Downlights | 1 x powerLED 2 W DC 630 mA | CRI 90
90542W60



Ø35

29

Technical data	
Type	Encasement with flange
Installation position	Ceiling
Installation environment	Indoor
Light Source	LED
Circuit structure	powerLED
Optics	Medium Wide Flood
Light emission direction	downward
Nominal power	2 W DC
Source lumens	213 lm
Input voltage range	630mA
CCT / Tone	3000 K
Colour rendering index	90 Ra
C.C. / C.V.	CC
Safety class	3
IP	IP44
Optical compartment IP	IP65
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	0.047 Kg
Electrostatic discharge protection	No
Surge protection	No
Optics technology	F.O.L.
Product technological characteristics	TVS

Finishing casing

Material	Aluminium 6026
Colour	White
Processing	Powder coating

Finishing diffuser

Material	UV Resistant Polycarbonate
Colour	transparent

Finishing radiator

Material	Die-cast Aluminium EN AB - 46100
Processing	Tumbling

Electronics

	89147 On/Off Driver 198~264V AC / 180~275V DC
	99105 On/Off Driver 198~264V AC
	99374 On/Off Driver 198~264V AC / 176~275V DC 75 W
	99710 1-10V Converter 24V DC
	99713 DALI Converter 24V DC
	99376 On/Off Driver 198~264V AC

Cables Electrification

Cable connector	No
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Downlights | 1 x powerLED 2 W DC 630 mA | CRI 90 | Base
90542W60

Single emission recessed downlights for indoor application. The warm white LED light source with a medium wide flood light distribution is composed of 1 powerLED LEDs with CCT of 3000 K and a CRI 90; the source luminous flux is 213 lm, with a 106.5 lm/W nominal luminous efficacy.

The device body is made of aluminium 6026 and features a white finish, processed by means of powder coating; the diffuser is made of uv resistant polycarbonate. The ingress protection degree is IP44; the total weight is of 0.047 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 2 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 29 mm diameter hole (in plasterboard).

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

Energy efficiency class

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

Illuminotechnical Features

Light Output Ratio (LOR)	43 %
Source lumens	213 lm
Delivered lumens	93 lm
Consumption	2,0 W
Luminaire efficacy	46 lm/W
Colour temperature	3000 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

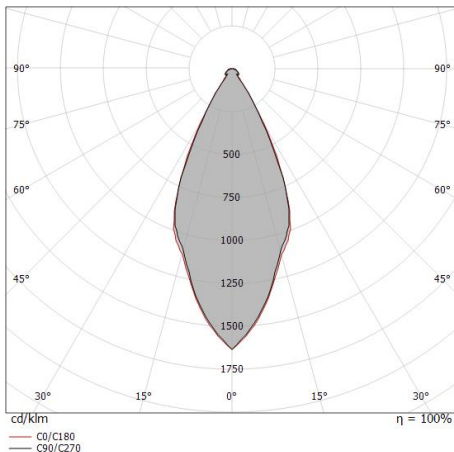
L70 B20 C0 214455h (at Tj 60 Ta 25)

UGR

UGR axial	22.6
UGR transversal	22.7
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

C0/C180 optics	46°
Light distribution simmetry	Symmetrical



Distance [m]	Cone diameter [m]	Half-peak divergence [°]	E(0°) [lx]	E(C90) [lx]	E(C0) [lx]
0.5	0.43	46.6°	602	235	233
1.0	0.85	46.6°	151	59	58
1.5	1.28	46.6°	67	26	26
2.0	1.71	46.6°	38	15	15
2.5	2.13	46.6°	24	9	9
3.0	2.56	46.6°	17	7	6

— C0/C180 (Half-peak divergence: 46.6°)
— C90/C270 (Half-peak divergence: 46.2°)