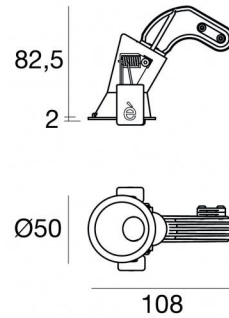




Downlights | 1 x powerLED 4 W DC 350 mA | CRI 90
90835N15



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Technical data	
Type	Encasement with flange
Installation position	Ceiling
Installation environment	Indoor
Light Source	LED
Circuit structure	powerLED
Optics	Spot
Light emission direction	downward
Nominal power	4 W DC
Source lumens	449 lm
Input voltage range	350mA
CCT / Tone	4000 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	0.078 Kg
Electrostatic discharge protection	No
Surge protection	No
Optics technology	F.O.L. - Honey comb
Product technological characteristics	TVS

Finishing casing

Material	Die-cast Aluminium EN AB - 46100
Colour	Black
Processing	Powder coating


Finishing diffuser


Material	UV Resistant Polycarbonate
Colour	transparent


Finishing radiator


Material	Die-cast Aluminium EN AB - 46100
Colour	Aluminium
Processing	Polishing

Electronics

 89145
On/Off Driver 198-264V AC / 180-275V DC

 99375
On/Off Driver 198-264V AC

 C-E100010
1-10V - 0-10V Controller

 C-E100011
Push and Simply Dim - DALI-2 Controller

Cables Electrification

Cable connector	No
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Downlights | 1 x powerLED 4 W DC 350 mA | CRI 90 | Base 90835N15

Single emission recessed downlights for indoor application. The natural white LED light source with a spot light distribution is composed of 1 powered LEDs with CCT of 4000 K and a CRI 90; the source luminous flux is 449 lm, with a 112.3 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a black 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 0.078 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 4 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 46 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

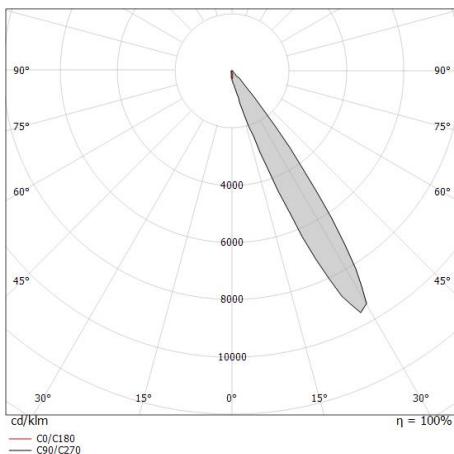
Light Output Ratio (LOR)	36 %
Source lumens	449 lm
Delivered lumens	166 lm
Consumption	4 W
Luminaire efficacy	41 lm/W
Colour temperature	4000 K
Standard Deviation of Colour Matching	3 Step MacAdam
Colour rendering index	90 Ra
Black Body Locus	On
Standard Operating Ambient Temperature	-20 / +50°C
Ordinary temperature on the glass	40°C

LED Life / Failure Ratio

L70 B10 C0 247450h (at Tj 60 Ta 25)

OPTICAL

C0/C180 optics	31°
Light distribution symmetry	Asymmetrical



Distance [m]	Cone diameter [m]	E(0°) E(C0)	15.6°	188 84
0.5	0.28	E(0°) E(C0)	15.6°	47 21
1.0	0.56	E(0°) E(C0)	15.6°	21 9
1.5	0.84	E(0°) E(C0)	15.6°	12 5
2.0	1.12	E(0°) E(C0)	15.6°	8 3
2.5	1.40	E(0°) E(C0)	15.6°	5 2
3.0	1.68	E(0°) E(C0)	15.6°	

Distance [m] Cone diameter [m] Illuminance [lx]

— C0/C180 (Half-peak divergence: 31.2°)

