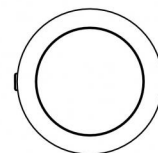
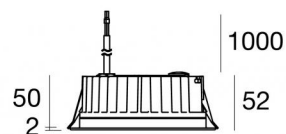


Downlights | 1 arrayLED 13 W DC 24 V | CRI 80  
81238M30

Ø138

Technical data	
Type	Encasement with flange
Installation position	Ceiling
Installation environment	Outdoor
Light Source	LED
Circuit structure	arrayLED
Optics	Medium Flood
Light emission direction	downward
Nominal power	13 W DC
Source lumens	1876 lm
Input voltage range	24 V
CCT / Tone	2700 K
Colour rendering index	80 Ra
C.C. / C.V.	CV
Safety class	3
IP	IP67
IK	IK10
Glow wire test	850°
Direct mounting on normally flammable surfaces	Yes
CE	Yes
Driver included	No
C.V. - C.C. Converter	Converter 24V included
Dimmable article	DALI - 1-10V
Directional	No
Tilting	No
Walk-over	No
Drive-over	No
Cable included	Yes
Cable length	1 m
Resin potting	Yes
Type of light emission	Single emission
Net weight	0.9 Kg
Electrostatic discharge protection	No
Surge protection	No
Product technological characteristics	Acquastop

**Finishing casing**

Material	Die-cast Aluminium EN AB - 46100
Colour	black
Processing	Open pore anodizing + Powder Coating

**Finishing diffuser**

Material	Extra clear glass - Tempered
Colour	transparent
Processing	Silk-screening

**Finishing flange**

Material	AISI 316L steel
Colour	steel
Processing	Brushing

**Electronics**89488  
On/Off Driver 190-250V AC / 180-275V DC 15 W (1 art.)89179  
On/Off Driver 198-264V AC 24 W (1 art.)89359  
On/Off Driver 198-264V AC / 180-275V DC 48 W (1 - 3 art.)99331  
On/Off Driver 198-264V AC / 176-275V DC 150 W (1 art.)99660  
DALI - 1-10V Controller 24V DC 216 W (1 art.)C-E500023  
DALI - 1-10V - Push and Simply Dim Controller 8-53V DC 576 W (1 art.)**Cables Electrification**

Cable connector No



Downlights | 1 arrayLED 13 W DC 24 V | CRI 80 | Base 81238M30

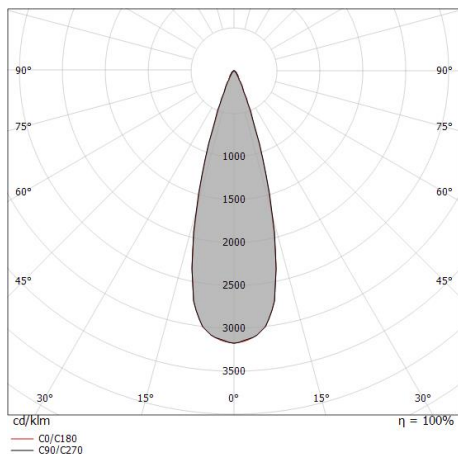
Single emission recessed downlights for outdoor application. The super warm white LED light source with a medium flood light distribution is composed of 1 arrayed LEDs with CCT of 2700 K and a CRI 80; the source luminous flux is 1876 lm, with a 144.3 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a black finish, processed by means of open pore anodizing + powder coating; the diffuser is made of extra clear glass - tempered with a silk-screening treatment. The ingress protection degree is IP67; the total weight is of 0.9 kg.

The total absorbed power is 13 W. The power supply cable is included and features a 1 m length.

The device features protection class III and can be ceiling-mounted, with a 127 mm diameter hole (in plasterboard) with an outer casing, code 99749(for concrete or masonry).

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



Distance [m]	Cone diameter [m]	illuminance [lx]
0.5	0.28 0.27	E(0°) 17531 E(C90) 15.5° 7899 E(C0) 15.3° 7956
1.0	0.55 0.55	E(0°) 4283 E(C90) 15.5° 1975 E(C0) 15.3° 1989
1.5	0.83 0.82	E(0°) 1948 E(C90) 15.5° 878 E(C0) 15.3° 884
2.0	1.11 1.08	E(0°) 1096 E(C90) 15.5° 494 E(C0) 15.3° 497
2.5	1.39 1.37	E(0°) 701 E(C90) 15.5° 316 E(C0) 15.3° 318
3.0	1.66 1.64	E(0°) 487 E(C90) 15.5° 219 E(C0) 15.3° 221

Distance [m] Cone diameter [m] illuminance [lx]

— C0/C180 (Half-peak divergence: 30.6°)  
— C90/C270 (Half-peak divergence: 31.0°)

### Energy efficiency class

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

### Illuminotechnical Features

Light Output Ratio (LOR)	73 %
Source lumens	1876 lm
Delivered lumens	1380 lm
Consumption	13 W
Luminaire efficacy	106 lm/W
Colour temperature	2700 K
Standard Deviation of Colour Matching	2 Step MacAdam
Colour rendering index	80 Ra
Standard Operating Ambient Temperature	-20 / +50°C
Ordinary temperature on the glass	40°C

### LED Life / Failure Ratio

L70 B10 C0 296960h (at Tj 65 Ta 25 )

### UGR

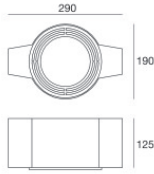
UGR axial	15
UGR transversal	15.1
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

### OPTICAL

C0/C180 optics	31°
Light distribution simmetry	Symmetrical



Orma\_C | Downlights | Accessories  
**81238M30**



Outer casing - (to be completed with universal grill 99750)  
installation position: ceiling; type of installation: masonry L=290mm, H=125mm, D=190mm

**Code**  
99749



Accessories for outer casings - Universal grille for outer casing 99749

**Code**  
99750