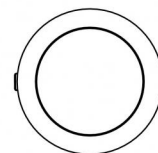
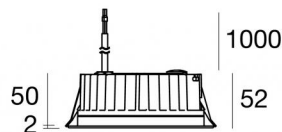




Downlights | 1 arrayLED 13 W DC 24 V | CRI 80  
81239W60



Ø138

#### Technical data

Type	Encasement with flange
Installation position	Ceiling
Installation environment	Outdoor
Light Source	LED
Circuit structure	arrayLED
Optics	60°
Light emission direction	downward
Nominal power	13 W DC
Source lumens	1959 lm
Input voltage range	24 V
CCT / Tone	3000 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
Optics technology	Honey comb
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 - 11 art.)



99660  
DALI - 1-10V Controller 24V DC 216 W (- art.)



C-E500023  
DALI - 1-10V - Push and Simply Dim Controller 8-53V DC 576 W (- art.)

#### Cables Electrification

Cable connector No



Downlights | 1 arrayLED 13 W DC 24 V | CRI 80 | Base 81239W60

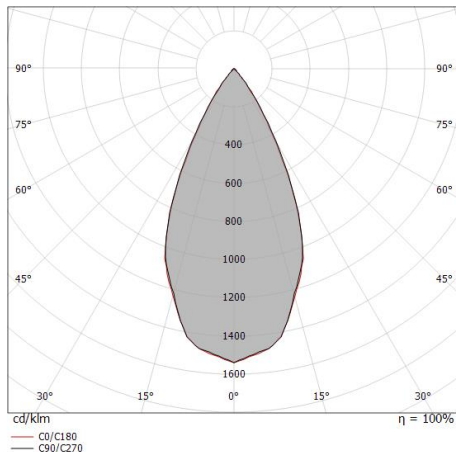
Single emission recessed downlights for outdoor application. The warm white LED light source is composed of 1 arrayLEDs with CCT of 3000 K and a CRI 80; the source luminous flux is 1959 lm, with a 150.7 lm/W nominal luminous efficacy.

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	0.46 0.46	E(0°) 5176 E(C90) 24.8° 1947 E(C0) 24.7° 1952
1.0	0.92 0.92	E(0°) 1294 E(C90) 24.8° 487 E(C0) 24.7° 488
1.5	1.39 1.38	E(0°) 575 E(C90) 24.8° 216 E(C0) 24.7° 217
2.0	1.85 1.84	E(0°) 324 E(C90) 24.8° 122 E(C0) 24.7° 122
2.5	2.31 2.30	E(0°) 207 E(C90) 24.8° 78 E(C0) 24.7° 78
3.0	2.77 2.76	E(0°) 144 E(C90) 24.8° 54 E(C0) 24.7° 54

— C0/C180 (Half-peak divergence: 49.4°)  
— C90/C270 (Half-peak divergence: 49.6°)

### Energy efficiency class

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

### Illuminotechnical Features

Light Output Ratio (LOR)	42 %
Source lumens	1959 lm
Delivered lumens	842 lm
Consumption	13 W
Luminaire efficacy	64 lm/W
Colour temperature	3000 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	13.9
UGR transversal	13.6
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

### OPTICAL

C0/C180 optics	49°
Light distribution simmetry	Symmetrical



Orma\_C | Downlights | Accessories  
**81239W60**



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