

Downlights | 1 arrayLED 13 W DC 24 V | CRI 80 81239N60

















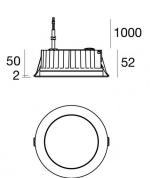




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Ø138

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 2010 Im Input voltage range 24 V CCT / Tone 4000 K Colour rendering index 80 Ra C.C. / C.V. 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 Drive-over No Cable included Yes Cable length 1 m Resin potting Yes Type of light emission No Surge protection No Surge protection No Optics technology Honey comb Product technological characteristics Acquastop Product technological characteristics	Technical data	
Installation environment Outdoor Light Source LED Circuit structure arrayLED Optics 60° Light emission direction downward Nominal power 13 W DC Source lumens 2010 Im Input voltage range 24 V CCT / Tone 4000 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	Туре	
Light Source LED Circuit structure arrayLED Optics 60° Light emission direction downward Nominal power 13 W DC Source lumens 2010 lm Input voltage range 24 V CCT / Tone 4000 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 No Sur	Installation position	Ceiling
Circuit structure arrayLED Optics 60° Light emission direction downward Nominal power 13 W DC Source lumens 2010 Im Input voltage range 24 V CCT / Tone 4000 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 Converter 24V included Dimmable article DALI - 1-10V Directional No Tilting No Walk-over No Cable included Yes Cable length 1 m Resin potting Yes Type of light emission Net weight 0.9 Kg Electrostatic discharge protection No Surge protection No Optics technology Honey comb	Installation environment	Outdoor
Optics 60° Light emission direction downward Nominal power 13 W DC Source lumens 2010 Im Input voltage range 24 V CCT / Tone 4000 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 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 Optics technology Honey comb	Light Source	LED
Light emission direction Nominal power Source lumens 2010 lm Input voltage range 24 V CCT / Tone 4000 K Colour rendering index 80 Ra C.C. / C.V. 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 Dimmable article Dimmable article Dimmable article Dimectional No Tilting No Walk-over No Cable included Yes Cable length 1 m Resin potting Type of light emission Net weight Electrostatic discharge protection No Optics technology Honey comb	Circuit structure	arrayLED
Nominal power 13 W DC Source lumens 2010 lm Input voltage range 24 V CCT / Tone 4000 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 Titing 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 Optics technology Honey comb	Optics	60°
Source lumens 2010 lm Input voltage range 24 V CCT / Tone 4000 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 Optics technology Honey comb	Light emission direction	downward
Input voltage range	Nominal power	13 W DC
CCT / Tone 4000 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 Converter 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 Net weight Electrostatic discharge protection No Surge protection No Optics technology Honey comb	Source lumens	2010 lm
Colour rendering index 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 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 Net weight 0.9 Kg Electrostatic discharge protection No Surge protection No Optics technology Honey comb	Input voltage range	24 V
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 Optics technology Honey comb	CCT / Tone	4000 K
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 Optics technology Honey comb	Colour rendering index	80 Ra
IP IK IK IK10 Glow wire test B50° Direct mounting on normally flammable surfaces CE Yes Driver included No C.V C.C. Converter Converter 24V included Dimmable article Dimetional No Tilting No Walk-over No Drive-over No Cable included Yes Cable length 1 m Resin potting Type of light emission Net weight Optices technology IK10 IK10 IK10 IK10 IK10 IK10 IK10 IK10	C.C. / C.V.	CV
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 Optices technology Honey comb	Safety class	3
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 Outge protection No Optics technology Honey comb	IP .	IP67
Direct mounting on normally flammable surfaces CE Yes Driver included No C.V C.C. Converter Dimmable article DALI - 1-10V Directional No Titting No Walk-over No Drive-over No Cable included Yes Cable length 1 m Resin potting Yes Type of light emission Net weight Direction Surge protection No Optics technology Honey comb	IK	IK10
CE Yes Driver included No C.V C.C. Converter 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	Glow wire test	850°
Driver included No C.V C.C. Converter Converter 24V included Dimmable article DALI - 1-10V Directional No Titting 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	Direct mounting on normally flammable surfaces	Yes
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	CE	Yes
C.V C.C. Converter 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	Driver included	No
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	C.V C.C. Converter	
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	Dimmable article	DALI - 1-10V
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	Directional	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	Tilting	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	Walk-over	No
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	Drive-over	No
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	Cable included	Yes
Type of light emission Net weight Clear of light emission Optics technology Single emission No No No Honey comb	Cable length	1 m
Net weight 0.9 Kg Electrostatic discharge protection No Surge protection No Optics technology Honey comb	Resin potting	Yes
Electrostatic discharge protection No Surge protection No Optics technology Honey comb	Type of light emission	Single emission
Surge protection No Optics technology Honey comb	Net weight	0.9 Kg
Optics technology Honey comb	Electrostatic discharge protection	No
	Surge protection	No
Product technological characteristics Acquastop	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 diffus	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



On/Off Driver 198~264V AC 24 W (1 art.)



89359

On/Off Driver 198~264V AC / 180~275V DC 48 W (1 - 3



On/Off Driver 198~264V AC / 176~275V DC 150 W (1



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		
	able connector No	



Downlights | 1 arrayLED 13 W DC 24 V | CRI 80 | Base **81239N60**

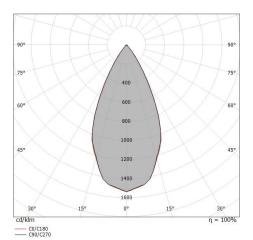
Single emission recessed downlights for outdoor application. The natural white LED light source is composed of 1 arrayled LEDs with CCT of 4000 K and a CRI 80; the source luminous flux is 2010 lm, with a 154.6 lm/W nominal luminous efficacy.

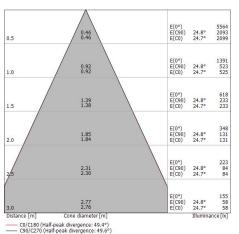
The device body is made of die-cast aluminium en ab - 46100 and features a black finish, processed by means of open pore anodizing + powder coating; the diffuser is made of extra clear glass - tempered with a silk-screening treatment. The ingress protection degree is IP67; the total weight is of 0.9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





Energy efficiency class

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

Illuminotechnical Features	
Light Output Ratio (LOR)	45 %
Source lumens	2010 lm
Delivered lumens	905 lm
Consumption	13 W
Luminaire efficacy	69 lm/W
Colour temperature	4000 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	14.2
UGR transversal	13.9
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL	
C0/C180 optics	49°
Light distribution simmetry	Symmetrical

Orma_C



Orma_C | Downlights | Accessories 81239N60





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