

# Warp\_R EVO



Downlights | 1 arrayLED 14 W DC 400 mA | CRI 90  
77367M30



Technical data	
Type	Encasement with flange
Installation position	Ceiling
Installation environment	Indoor
Light Source	LED
Circuit structure	arrayLED
Optics	Medium Flood
Light emission direction	downward
Nominal power	14 W DC
Source lumens	2214 lm
Input voltage range	400mA
CCT / Tone	2700 K
Colour rendering index	90 Ra
C.C. / C.V.	CC
Safety class	3
IP	IP40
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	0.2 m
Resin potting	No
Type of light emission	Single emission
Net weight	0.3 Kg
Electrostatic discharge protection	No
Surge protection	No
Optics technology	Honey comb

## Finishing casing

Material	Technopolymer
Colour	Black
Processing	Coating

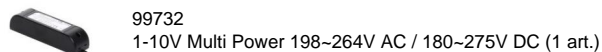
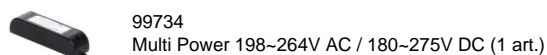
## Finishing diffuser

Material	UV Resistant Polycarbonate
Colour	transparent

## Finishing radiator

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

## Electronics



## Cables Electrification

Cable connector	JST Quick connector Male + Female
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Downlights | 1 arrayLED 14 W DC 400 mA | CRI 90 | Base 77367M30

Single emission recessed downlights for indoor application. The super warm white LED light source is composed of 1 arrayed LEDs with CCT of 2700 K and a CRI 90; the source luminous flux is 2214 lm, with a 158.1 lm/W nominal luminous efficacy.

The device body is made of technopolymer and features a black finish, processed by means of coating; the diffuser is made of uv resistant polycarbonate. The ingress protection degree is IP40; the total weight is of 0.3 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 14 W. The power supply cable is included and features a 0.2 m length.

The device features protection class III and can be ceiling-mounted, with a 92 mm diameter hole (in plasterboard) with an outer casing, code 89374(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 E.

### Illuminotechnical Features

Light Output Ratio (LOR)	57 %
Source lumens	2214 lm
Delivered lumens	1282 lm
Consumption	14 W
Luminaire efficacy	91 lm/W
Colour temperature	2700 K
Standard Deviation of Colour Matching	2 Step MacAdam
Colour rendering index	90 Ra
Colour Rendering Index	60 R9
Black Body Locus	On
Standard Operating Ambient Temperature	-20 / +50°C
Ordinary temperature on the glass	40°C

### LED Life / Failure Ratio

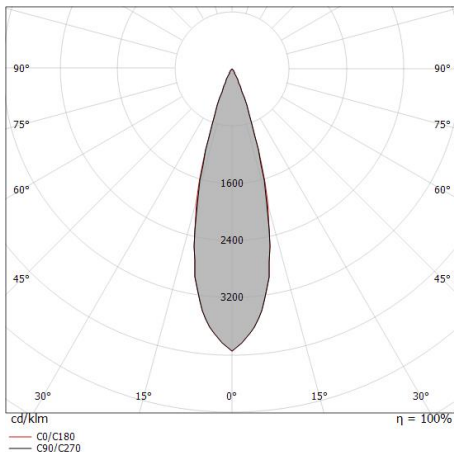
L70 B10 C0 252000h (at Tj 65 Ta 25 )

### UGR

UGR axial	5.2
UGR transversal	5.2
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

### OPTICAL

C0/C180 optics	29°
Light distribution simmetry	Symmetrical



Distance [m]	Cone diameter [m]	illuminance [lx]
0.5	0.26 0.26	E(0°) 20211 E(C90) 14.4° 9213 E(C0) 14.6° 9247
1.0	0.51 0.52	E(0°) 5053 E(C90) 14.4° 2303 E(C0) 14.6° 2312
1.5	0.77 0.78	E(0°) 2246 E(C90) 14.4° 1024 E(C0) 14.6° 1027
2.0	1.03 1.04	E(0°) 1263 E(C90) 14.4° 576 E(C0) 14.6° 578
2.5	1.28 1.30	E(0°) 808 E(C90) 14.4° 369 E(C0) 14.6° 370
3.0	1.54 1.56	E(0°) 561 E(C90) 14.4° 256 E(C0) 14.6° 257

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

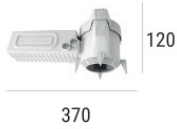
— C0/C180 (Half-peak divergence: 29.2°)  
— C90/C270 (Half-peak divergence: 28.8°)



# Warp\_R EVO

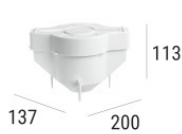


Warp\_R EVO | Downlights | Accessories  
**77367M30**



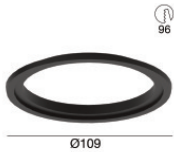
Outer casing  
installation position: ceiling; type of installation: masonry L=370mm, H=120mm, D=200mm.  
Material:polypropylene, colour:white.

**Code**  
89374



Outer casing  
installation position: ceiling; type of installation: masonry L=200mm, H=113mm, D=137mm.  
Material:polypropylene, colour:white.

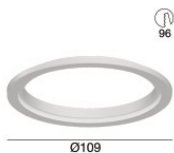
**Code**  
89373



Ø109

Black front adaptive flange for Warp EVO

**Code**  
83390



Ø109

White front adaptive flange for Warp EVO

**Code**  
83395



Optics  
Light distribution: wide flood,Cover material: uv resistant polycarbonate

**Code**  
83384



Optics  
Light distribution: medium flood,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate

**Code**  
83383



Optics - Steel AISI 304L  
Light distribution: flood,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate









**Code**  
83382



Diffuser  
Diffuser Type: aesthetic filter

**Code**  
83381



	Diffuser Diffuser Type: elliptical filter	<b>Code</b> <u>83380</u>
	Anti-glare Anti-glare Type: honeycomb louvre. Material:Pom-C, colour:Black.	<b>Code</b> <u>83379</u>
	Black Vos_R EVO frontal Kit	<b>Code</b> <u>83378</u>
	White Vos_R EVO frontal Kit	<b>Code</b> <u>83377</u>
	Black Warp_R EVO frontal Kit	<b>Code</b> <u>83376</u>
	White Warp_R EVO frontal Kit	<b>Code</b> <u>83375</u>
	Black Quantum_R EVO frontal Kit	<b>Code</b> <u>83374</u>
	White Quantum_R EVO frontal Kit	<b>Code</b> <u>83373</u>



Gold Warp\_R EVO frontal Kit

**Code**  
C-K400048



Copper Warp\_R EVO frontal Kit

**Code**  
C-K400049



Gold Quantum\_R EVO frontal Kit

**Code**  
C-K400046



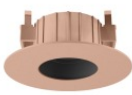
Copper Quantum EVO frontal Kit

**Code**  
C-K400047



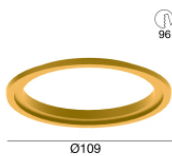
Gold Vos\_R EVO frontal Kit

**Code**  
C-K400050



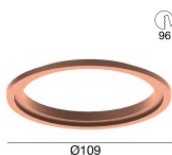
Copper Vos\_R EVO frontal Kit

**Code**  
C-K400051



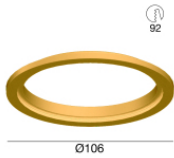
Gold front adaptive flange for Warp EVO

**Code**  
C-K400052



Copper front adaptive flange for Warp EVO

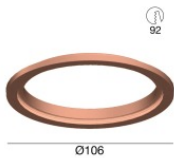
**Code**  
C-K400053



Gold front adaptive flange for Quantum EVO

**Code**

C-K400054



Copper front adaptive flange for Quantum EVO

**Code**

C-K400055