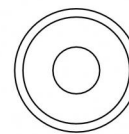
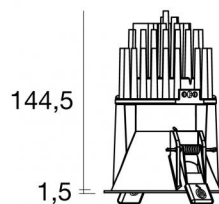


# Warp\_R PRO



Downlights | 1 arrayLED 15 W DC 400 mA | CRI 90  
83770M30



Ø100



92

Technische Daten	
Installationsposition	Decke
Installationsumgebung	Indoor
Lichtquelle	LED
Circuit structure	arrayLED
Optik	Medium Flood
Light emission direction	downward
Lampe Nennleistung	15 W DC
Lichtstrom (Lichtquelle)	2214 lm
Eingangsspannungsbereich	400mA
Ähnlichste Farbtemperatur / Tone	2700 K
Farbwiedergabeindex	90 Ra
Gleichstrom/Gleichspannung	CC
Isolierklasse	3
IP	IP44
IP optisches System	IP65
Glühdrahtprüfung	850°
Direkte Montage auf normal entflammaren Oberflächen	Ja
CE	Ja
Einschließlich Driver	Nein
Leuchte dimmbar	DALI - 1-10V
Schwenkbarkeit	Nein
Drehbarkeit	Nein
Begehbarkeit	Nein
Überrollbarkeit	Nein
Einschließlich Kabel	Ja
Kabellänge	0.300 m
Harzbeschichtung	Nein
Typ Lichtabstrahlung	Einflammig
Nettogewicht	0.511 Kg
Schutz vor elektrostatischen Entladungen	Nein
Schutz vor Stoßspannungen	Nein
Optiktechnologie	F.O.L.

## Oberfläche Gehäuse

Material	Stranggepresstes Aluminium EN AB - 46100
Farbe	Weiß
Bearbeitungstyp	Pulverbeschichtung


## Oberfläche Diffusor


Material	Polycarbonat UV-beständige
Farbe	transparent

## Oberfläche strahler

Material	Stranggepresstes Aluminium EN AB - 46100
Bearbeitungstyp	Trommelung

## Elektronik

 99740  
Multi Power 198~264V AC / 180~275V DC (1 art.)

 99739  
1-10V Multi Power 198~264V AC / 180~275V DC (1 art.)

 C-E100032  
Push and Simply Dim - DALI-2 Controller (1 art.)

## Cables Electrification

Cable connector Male Easy plug

IP (locked condition) 66

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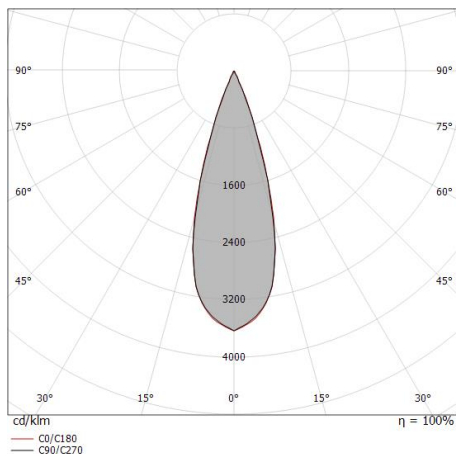
Single emission recessed downlights for indoor application. The super warm white LED light source with a medium flood light distribution is composed of 1 arrayed LEDs with CCT of 2700 K and a CRI 90; the source luminous flux is 2214 lm, with a 147.6 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a white 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 0.511 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 15 W. The power supply cable is included and features a 0.300 m length.

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

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



Distance [m]	Cone diameter [m]	illuminance [lx]
0.5	0.29 0.29	E(0°) 12235 E(C90) 16.1° 5466 E(C0) 16.2° 5421
1.0	0.58 0.58	E(0°) 3059 E(C90) 16.1° 1367 E(C0) 16.2° 1355
1.5	0.87 0.87	E(0°) 1359 E(C90) 16.1° 607 E(C0) 16.2° 602
2.0	1.15 1.16	E(0°) 765 E(C90) 16.1° 342 E(C0) 16.2° 339
2.5	1.44 1.45	E(0°) 489 E(C90) 16.1° 219 E(C0) 16.2° 217
3.0	1.73 1.74	E(0°) 340 E(C90) 16.1° 152 E(C0) 16.2° 151

— C0/C180 (Half-peak divergence: 32.4°)  
— C90/C270 (Half-peak divergence: 32.2°)

### Energieeffizienzklasse

ieses Produkt enthält eine Lichtquelle der Energieeffizienzklasse E.

### Illuminotechnical Eigenschaften

Light Output Ratio (LOR)	38 %
Lichtstrom (Lichtquelle)	2214 lm
Leuchten Lichtstrom	842 lm
Consumption	15 W
Leuchten Lichtausbeute	56 lm/W
Farbtemperatur	2700 K
Standard Deviation of Colour Matching	2 Step MacAdam
Farbwiedergabeindex	90 Ra
Colour Rendering Index	60 R9
Black Body Locus	On
Standardumgebungstemperatur	-20 / +50°C
Typische Temperatur am Glas	40°C

### LED Life / Failure Ratio

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

### UGR

UGR axial	6.8
UGR transversal	6.9
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

### OPTICAL

Optik C0/C180	32°
Light distribution simmetry	Symmetrical

### COLOR VECTOR GRAPHIC

