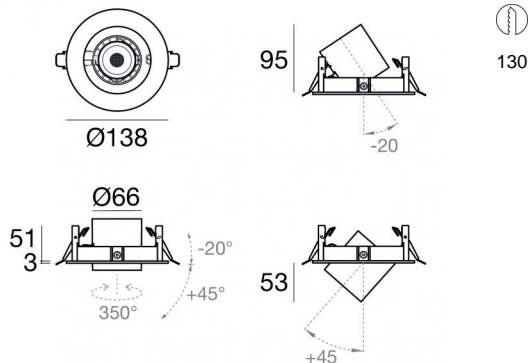




Downlights | 1 arrayLED 18 W DC 500 mA | CRI 98
81664M30



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	18 W DC
Source lumens	2750 lm
Input voltage range	500mA
CCT / Tone	2700 K
Colour rendering index	98 Ra
C.C. / C.V.	CC
Safety class	3
IP	IP20
Glow wire test	850°
Direct mounting on normally flammable surfaces	Yes
CE	Yes
Driver included	No
Dimmable article	DALI - 1-10V
Directional	Extractable
total angle (vertical plane)	65 °
total angle (horizontal plane)	350 °
Tilting	No
Walk-over	No
Drive-over	No
Cable included	Yes
Cable length	0.20 m
Resin potting	No
Type of light emission	Single emission
Net weight	0.920 Kg
Electrostatic discharge protection	No
Surge protection	No

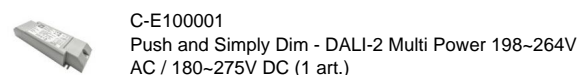
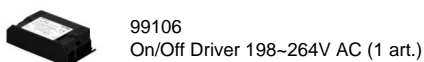
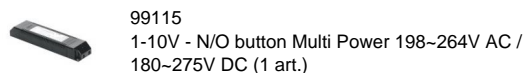
Finishing casing

Material	Die-cast Aluminium EN AB - 46100
Colour	Black
Processing	Powder coating

Finishing mounting frame

Material	Die-cast Aluminium EN AB - 46100
Colour	Black
Processing	Powder coating

Electronics



Cables Electrification

Cable connector	No
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Downlights | 1 arrayLED 18 W DC 500 mA | CRI 98 | Base
81664M30

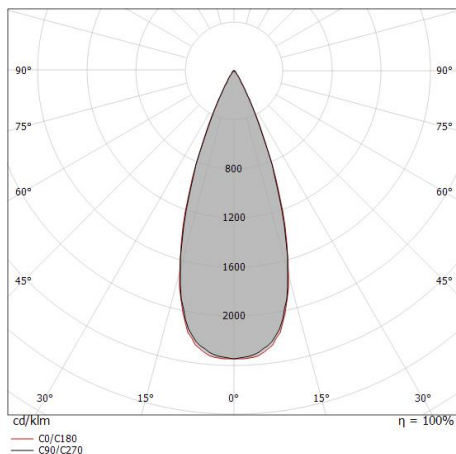
Single emission recessed downlights for indoor application. The super warm white LED light source with a medium flood light distribution is composed of 1 arrayed LEDs with CCT of 2700 K and a CRI 98; the source luminous flux is 2750 lm, with a 152.8 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a black finish, processed by means of powder coating; the mounting frame is made of die-cast aluminium en ab - 46100, with a black finish, processed by means of powder coating. The ingress protection degree is IP20; the total weight is of 0.920 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 18 W. The power supply cable is included and features a 0.20 m length.

The device features protection class III and can be ceiling-mounted, with a 130 mm diameter hole (in plasterboard).

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



Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)
0.5	0.35 0.35	11976	19.1° 5103	19.2° 5083
1.0	0.69 0.70	2994	19.1° 1276	19.2° 1271
1.5	1.04 1.04	1331	19.1° 567	19.2° 565
2.0	1.39 1.38	748	19.1° 319	19.2° 318
2.5	1.73 1.74	479	19.1° 204	19.2° 203
3.0	2.08 2.09	333	19.1° 142	19.2° 141

— C0/C180 (Half-peak divergence: 38.4°)
— C90/C270 (Half-peak divergence: 38.2°)

Energy efficiency class

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

Illuminotechnical Features

Light Output Ratio (LOR)	46 %
Source lumens	2750 lm
Delivered lumens	1274 lm
Consumption	12 W
Luminaire efficacy	106 lm/W
Colour temperature	2700 K
Standard Deviation of Colour Matching	2 Step MacAdam
Colour rendering index	98 Ra
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)

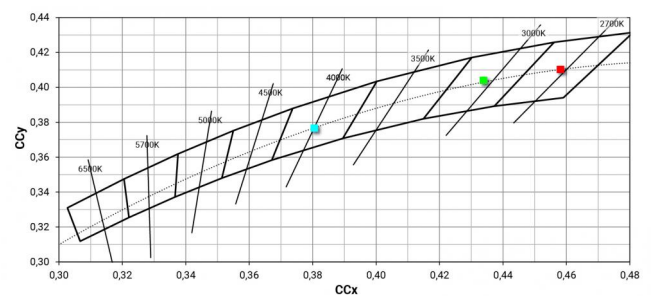
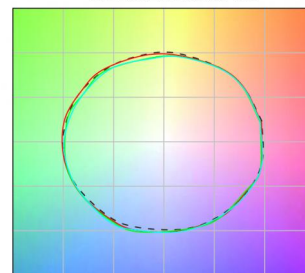
UGR

UGR axial	17.3
UGR transversal	17.3
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

C0/C180 optics	38°
Light distribution symmetry	Symmetrical

COLOR VECTOR GRAPHIC



Downlights | 1 arrayLED 18 W DC 500 mA | CRI 98 | Base 81664M30

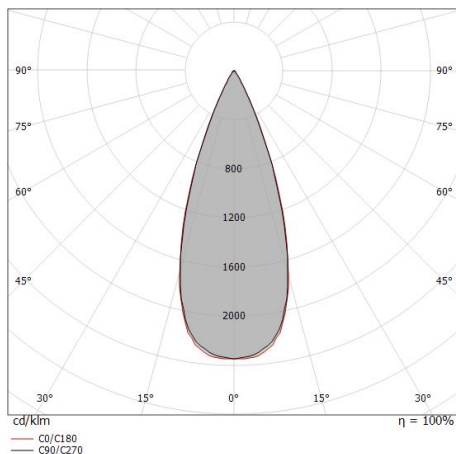
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The device body is made of die-cast aluminium en ab - 46100 and features a black finish, processed by means of powder coating; the mounting frame is made of die-cast aluminium en ab - 46100, with a black finish, processed by means of powder coating. The ingress protection degree is IP20; the total weight is of 0.920 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 18 W. The power supply cable is included and features a 0.20 m length.

The device features protection class III and can be ceiling-mounted, with a 130 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	0.35 0.35	E(0°) 16409 E(C90) 19.1° 6993 E(C0) 19.2° 6965
1.0	0.69 0.70	E(0°) 4102 E(C90) 19.1° 1748 E(C0) 19.2° 1741
1.5	1.04 1.04	E(0°) 1823 E(C90) 19.1° 777 E(C0) 19.2° 774
2.0	1.39 1.38	E(0°) 1026 E(C90) 19.1° 437 E(C0) 19.2° 435
2.5	1.73 1.74	E(0°) 656 E(C90) 19.1° 280 E(C0) 19.2° 279
3.0	2.08 2.09	E(0°) 456 E(C90) 19.1° 194 E(C0) 19.2° 193

— C0/C180 (Half-peak divergence: 38.4°)
— C90/C270 (Half-peak divergence: 38.2°)

Energy efficiency class

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

Illuminotechnical Features

Light Output Ratio (LOR)	63 %
Source lumens	2750 lm
Delivered lumens	1745 lm
Consumption	18 W
Luminaire efficacy	96 lm/W
Colour temperature	2700 K
Standard Deviation of Colour Matching	2 Step MacAdam
Colour rendering index	98 Ra
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)

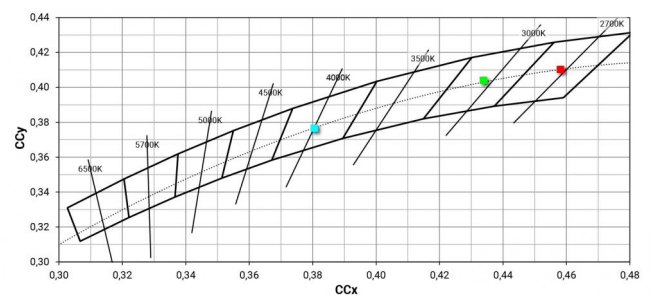
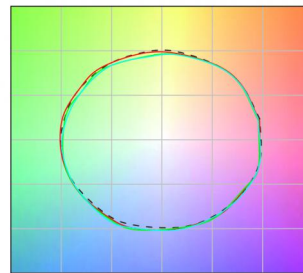
UGR

UGR axial	18.4
UGR transversal	18.4
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

C0/C180 optics	38°
Light distribution simmetry	Symmetrical

COLOR VECTOR GRAPHIC





	<p>Optics Light distribution: spot,Cover material: uv resistant polycarbonate</p>	<p>Code <u>99827</u></p>
	<p>Optics Light distribution: medium flood,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate</p>	<p>Code <u>99828</u></p>
	<p>Optics Light distribution: flood,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate</p>	<p>Code <u>99829</u></p>
	<p>Anti-glare Anti-glare Type: honeycomb louvre. Material:Pom-C, colour:Black.</p>	<p>Code <u>99780</u></p>
	<p>Diffuser Diffuser Type: elliptical filter. Material:Pom-C, colour:Black.</p>	<p>Code <u>99781</u></p>
	<p>Anti-glare Anti-glare Type: 45° cylindrical screen. Material:Pom-C, colour:Black.</p>	<p>Code <u>99782</u></p>
	<p>Anti-glare Anti-glare Type: cylindrical screen. Material:Pom-C, colour:Black.</p>	<p>Code <u>99783</u></p>
	<p>Anti-glare Anti-glare Type: cross louvres. Material:Pom-C, colour:Black.</p>	<p>Code <u>99779</u></p>



Carter

installation position: ceiling L=115mm, H=99.6mm, D=120mm.

Material:PC, colour:black.

Finish

Black

Code

99510