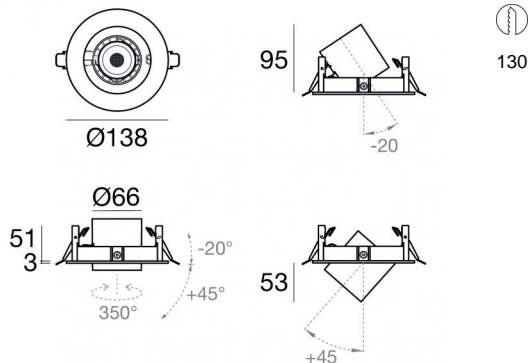




Downlights | 1 arrayLED 18 W DC 500 mA | CRI 98  
81663W60



## Technical data

Type	Encasement with flange
Installation position	Ceiling
Installation environment	Indoor
Light Source	LED
Circuit structure	arrayLED
Optics	Wide Flood
Light emission direction	downward
Nominal power	18 W DC
Source lumens	2891 lm
Input voltage range	500mA
CCT / Tone	3000 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	White
Processing	Powder coating


## Finishing mounting frame

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

## Electronics

 99115  
1-10V - N/O button Multi Power 198~264V AC / 180~275V DC (1 art.)

 99106  
On/Off Driver 198~264V AC (1 art.)

 C-E100001  
Push and Simply Dim - DALI-2 Multi Power 198~264V AC / 180~275V DC (1 art.)

## Cables Electrification

Cable connector No

## Downlights | 1 arrayLED 18 W DC 500 mA | CRI 98 | Base 81663W60

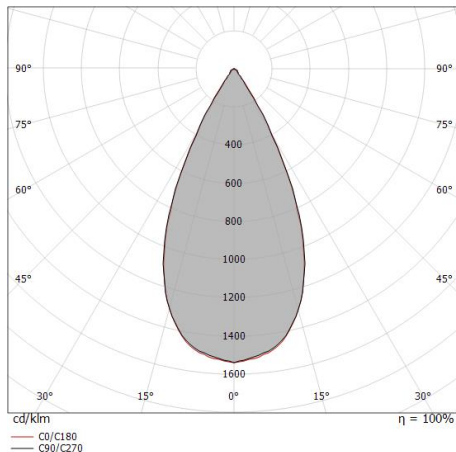
Single emission recessed downlights for indoor application. The warm white LED light source is composed of 1 arrayed LEDs with CCT of 3000 K and a CRI 98; the source luminous flux is 2891 lm, with a 160.6 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a white finish, processed by means of powder coating; the mounting frame is made of die-cast aluminium en ab - 46100, with a white 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	0.47 0.46	E(0°) 10912 E(C90) 25.0° 4073 E(C0) 24.7° 4124
1.0	0.93 0.92	E(0°) 2728 E(C90) 25.0° 1018 E(C0) 24.7° 1031
1.5	1.40 1.38	E(0°) 1212 E(C90) 25.0° 453 E(C0) 24.7° 458
2.0	1.87 1.84	E(0°) 682 E(C90) 25.0° 255 E(C0) 24.7° 258
2.5	2.33 2.30	E(0°) 436 E(C90) 25.0° 163 E(C0) 24.7° 165
3.0	2.80 2.76	E(0°) 303 E(C90) 25.0° 113 E(C0) 24.7° 115

— C0/C180 (Half-peak divergence: 49.4°)  
— C90/C270 (Half-peak divergence: 50.0°)

### Energy efficiency class

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

### Illuminotechnical Features

Light Output Ratio (LOR)	61 %
Source lumens	2891 lm
Delivered lumens	1773 lm
Consumption	18 W
Luminaire efficacy	98 lm/W
Colour temperature	3000 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)

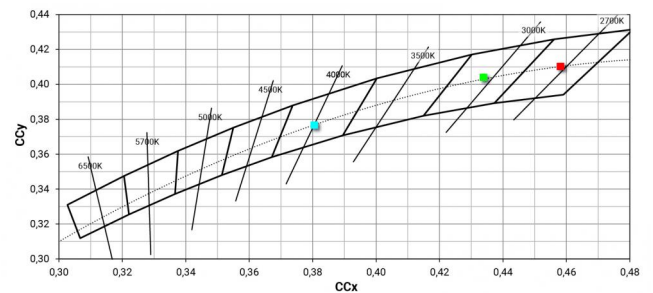
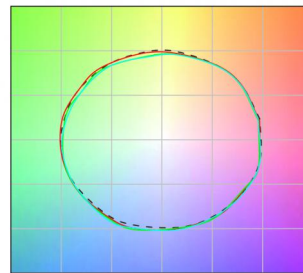
### UGR

UGR axial	20.4
UGR transversal	20.4
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

### OPTICAL

C0/C180 optics	49°
Light distribution symmetry	Symmetrical

### COLOR VECTOR GRAPHIC



## Downlights | 1 arrayLED 18 W DC 500 mA | CRI 98 | Base 81663W60

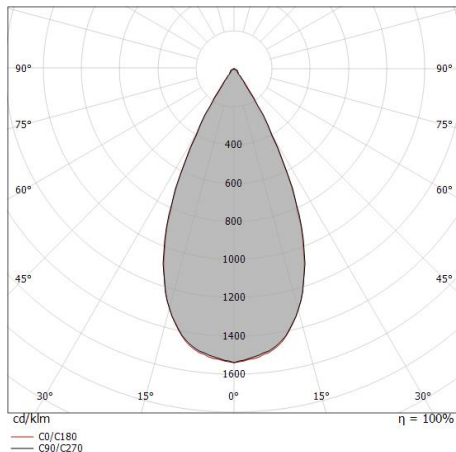
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The total absorbed power is 18 W. The power supply cable is included and features a 0.20 m length.

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	0.47 0.46	E(0°) 7964 E(C90) 2972 E(C0) 3010
1.0	0.93 0.92	E(0°) 1991 E(C90) 743 E(C0) 753
1.5	1.40 1.38	E(0°) 885 E(C90) 330 E(C0) 334
2.0	1.87 1.84	E(0°) 498 E(C90) 186 E(C0) 188
2.5	2.33 2.30	E(0°) 319 E(C90) 119 E(C0) 120
3.0	2.80 2.76	E(0°) 221 E(C90) 83 E(C0) 84

— C0/C180 (Half-peak divergence: 49.4°)  
— C90/C270 (Half-peak divergence: 50.0°)

### Energy efficiency class

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

### Illuminotechnical Features

Light Output Ratio (LOR)	44 %
Source lumens	2891 lm
Delivered lumens	1294 lm
Consumption	12 W
Luminaire efficacy	107 lm/W
Colour temperature	3000 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)

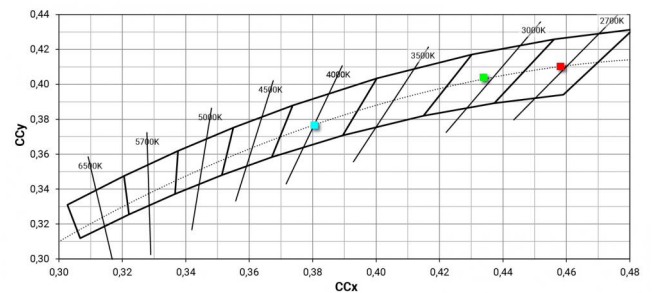
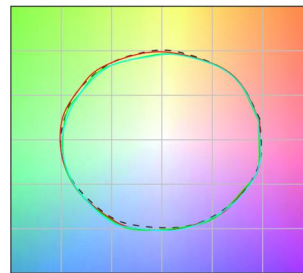
### UGR

UGR axial	19.3
UGR transversal	19.3
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

### OPTICAL

C0/C180 optics	49°
Light distribution symmetry	Symmetrical

### COLOR VECTOR GRAPHIC





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



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

Material:PC, colour:black.

**Finish**

Black

**Code**

99510