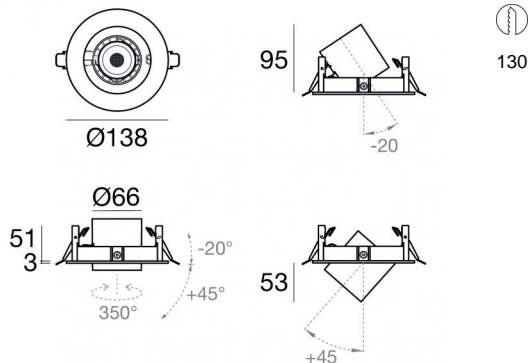




Downlights | 1 arrayLED 18 W DC 500 mA | CRI 98  
81664M30



Technische Daten	
Installationsposition	Decke
Installationsumgebung	Indoor
Lichtquelle	LED
Circuit structure	arrayLED
Optik	Medium Flood
Light emission direction	downward
Lampe Nennleistung	18 W DC
Lichtstrom (Lichtquelle)	2750 lm
Eingangsspannungsbereich	500mA
Ähnlichste Farbtemperatur / Tone	2700 K
Farbwiedergabeindex	98 Ra
Gleichstrom/Gleichspannung	CC
Isolierklasse	3
IP	IP20
Glühdrahtprüfung	850°
Direkte Montage auf normal entflammaren Oberflächen	Ja
CE	Ja
Einschließlich Driver	Nein
Leuchte dimmbar	DALI - 1-10V
Schwenkbarkeit	Estraibile
Gesamtwinkel (vertikale Ebene)	65 °
Gesamtwinkel (horizontale Ebene)	350 °
Drehbarkeit	Nein
Begehbarkeit	Nein
Überrollbarkeit	Nein
Einschließlich Kabel	Ja
Kabellänge	0.20 m
Harzbeschichtung	Nein
Typ Lichtabstrahlung	Einflammig
Nettogewicht	0.920 Kg
Schutz vor elektrostatischen Entladungen	Nein
Schutz vor Stoßspannungen	Nein


### Oberfläche Gehäuse

Material	Stranggepresstes Aluminium EN AB - 46100
Farbe	Schwarz
Bearbeitungstyp	Pulverbeschichtung


### Oberfläche Fassung

Material	Stranggepresstes Aluminium EN AB - 46100
Farbe	Schwarz
Bearbeitungstyp	Pulverbeschichtung

### Elektronik

 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 81664M30

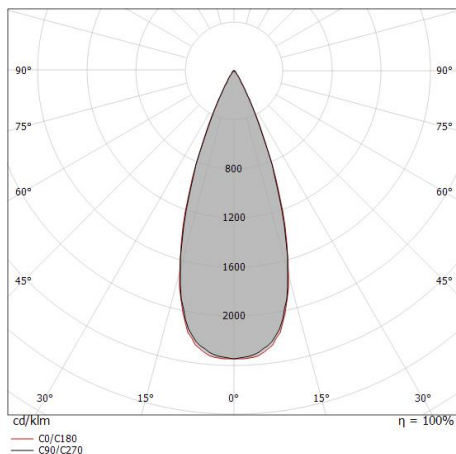
Single emission recessed downlights for indoor application. The super warm white LED light source with a medium flood light distribution is composed of 1 arrayed LEDs with CCT of 2700 K and a CRI 98; the source luminous flux is 2750 lm, with a 152.8 lm/W nominal luminous efficacy.

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	5103	5083
1.0	0.69 0.70	2994	1276	1271
1.5	1.04 1.04	1331	567	565
2.0	1.39 1.38	748	319	318
2.5	1.73 1.74	479	204	203
3.0	2.08 2.09	333	142	141

Distance [m] Cone diameter [m] Illuminance [lx]

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

### Energieeffizienzklasse

ieses Produkt enthält eine Lichtquelle der Energieeffizienzklasse E.

### Illuminotechnical Eigenschaften

Light Output Ratio (LOR)	46 %
Lichtstrom (Lichtquelle)	2750 lm
Leuchten Lichtstrom	1274 lm
Consumption	12 W
Leuchten Lichtausbeute	106 lm/W
Farbtemperatur	2700 K
Standard Deviation of Colour Matching	2 Step MacAdam
Farbwiedergabeindex	98 Ra
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 )

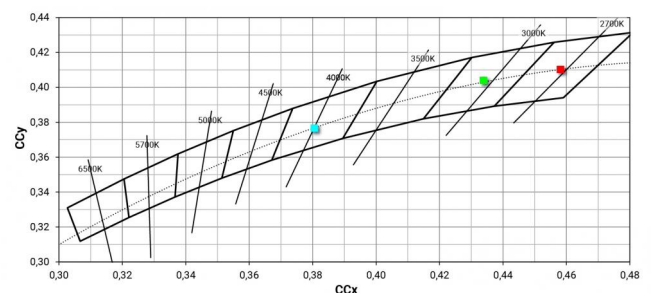
### UGR

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

### OPTICAL

Optik C0/C180	38°
Light distribution simmetry	Symmetrical

### COLOR VECTOR GRAPHIC



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

**81664M30**

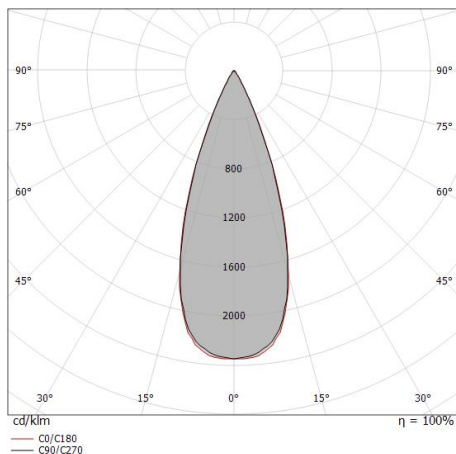
Single emission recessed downlights for indoor application. The super warm white LED light source with a medium flood light distribution is composed of 1 arrayed LEDs with CCT of 2700 K and a CRI 98; the source luminous flux is 2750 lm, with a 152.8 lm/W nominal luminous efficacy.

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]	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°)

### Energieeffizienzklasse

ieses Produkt enthält eine Lichtquelle der Energieeffizienzklasse E.

### Illuminotechnical Eigenschaften

Light Output Ratio (LOR)	63 %
Lichtstrom (Lichtquelle)	2750 lm
Leuchten Lichtstrom	1745 lm
Consumption	18 W
Leuchten Lichtausbeute	96 lm/W
Farbtemperatur	2700 K
Standard Deviation of Colour Matching	2 Step MacAdam
Farbwiedergabeindex	98 Ra
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 )

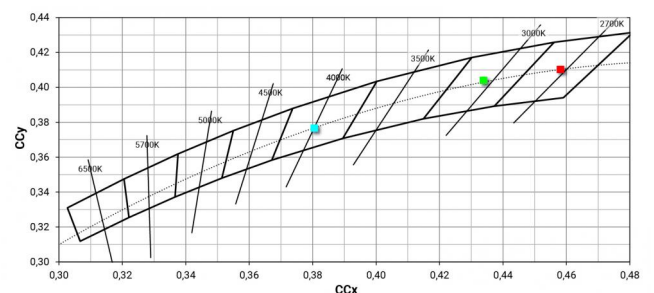
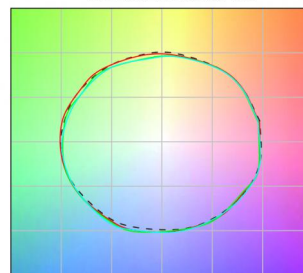
### UGR

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








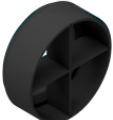
### OPTICAL

Optik C0/C180	38°
Light distribution simmetry	Symmetrical

### COLOR VECTOR GRAPHIC





	<p>Optik Lichtverteilung: spot,Material Verkleidung: polycarbonat uv-beständige</p>	<p><b>Code</b> <u>99827</u></p>
	<p>Optik Lichtverteilung: medium flood,Material Verkleidung: ,polycarbonat uv-beständige,polycarbonat uv-beständige,polycarbonat uv-beständige</p>	<p><b>Code</b> <u>99828</u></p>
	<p>Optik Lichtverteilung: flood,Material Verkleidung: ,polycarbonat uv-beständige,polycarbonat uv-beständige,polycarbonat uv-beständige</p>	<p><b>Code</b> <u>99829</u></p>
	<p>Blendschutz Blendschutzart: wabennaster. Material:Pom-C, farbe:Schwarz.</p>	<p><b>Code</b> <u>99780</u></p>
	<p>Diffusor Diffusorart: filtro ellittico. Material:Pom-C, farbe:Schwarz.</p>	<p><b>Code</b> <u>99781</u></p>
	<p>Blendschutz Blendschutzart: schermo cilindrico 45°. Material:Pom-C, farbe:Schwarz.</p>	<p><b>Code</b> <u>99782</u></p>
	<p>Blendschutz Blendschutzart: schermo cilindrico. Material:Pom-C, farbe:Schwarz.</p>	<p><b>Code</b> <u>99783</u></p>
	<p>Blendschutz Blendschutzart: frangiluce a croce. Material:Pom-C, farbe:Schwarz.</p>	<p><b>Code</b> <u>99779</u></p>



Optus\_EX | Downlights | Accessories  
**81664M30**



Fuhrmann

installationsposition: decke L=115mm, H=99.6mm, D=120mm.

Material:PC, farbe:Schwarz.

**Finish**

Black

**Code**

99510