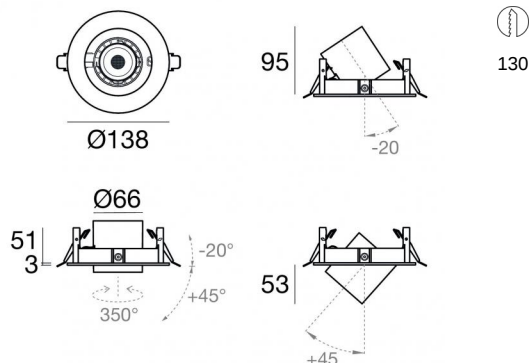


Downlights | 1 arrayLED 18 W DC 500 mA | CRI 90
81661N15



Technische Daten	
Installationsposition	Decke
Installationsumgebung	Indoor
Lichtquelle	LED
Circuit structure	arrayLED
Optik	Spot
Light emission direction	downward
Lampe Nennleistung	18 W DC
Lichtstrom (Lichtquelle)	3044 lm
Eingangsspannungsbereich	500mA
Ähnlichste Farbtemperatur / Tone	4000 K
Farbwiedergabeindex	90 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
Einbautiefe	57 mm
Typ Lichtabstrahlung	Einflammig
Nettogewicht	0.920 Kg
Schutz vor elektrostatischen Entladungen	Nein
Schutz vor Stoßspannungen	Nein

Oberfläche Oberfläche Gehäuse

Material	Stranggepresstes Aluminium EN AB - 46100
Farbe	Text white RAL9003
Bearbeitungstyp	Pulverbeschichtung mit duroplastischen Pulvern

Oberfläche Oberfläche fassung

Material	Stranggepresstes Aluminium EN AB - 46100
Farbe	Text white RAL9003
Bearbeitungstyp	Pulverbeschichtung mit duroplastischen Pulvern

Elektronik

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

Cables Electrification

Cable connector	No
-----------------	----

**Downlights | 1 arrayLED 18 W DC 500 mA | CRI 90
81661N15**

Single emission recessed downlights for indoor application. The natural white LED light source with a spot light distribution is composed of 1 arrayLEDs with CCT of 4000 K and a CRI 90; the source luminous flux is 3044 lm, with a 169.1 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a text white ral9003 finish, processed by means of powder coating with thermosetting powders; the mounting frame is made of die-cast aluminium en ab - 46100, with a text white ral9003 finish, processed by means of powder coating with thermosetting powders.

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.

Energieeffizienzklasse

Dieses Produkt enthält eine Lichtquelle der Energieeffizienzklasse D.

Illuminotechnical Eigenschaften

Light Output Ratio (LOR)	65 %
Lichtstrom (Lichtquelle)	3044 lm
Leuchten Lichtstrom	2006 lm
Consumption	18 W
Leuchten Lichtausbeute	111 lm/W
Farbtemperatur	4000 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 237566h (at Tj 65 Ta 25)

L80 B10 C0 148737h (at Tj 65 Ta 25)

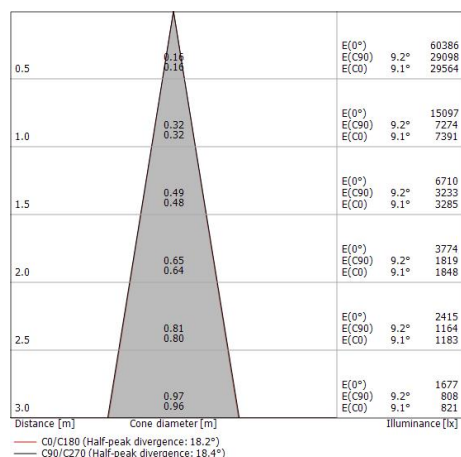
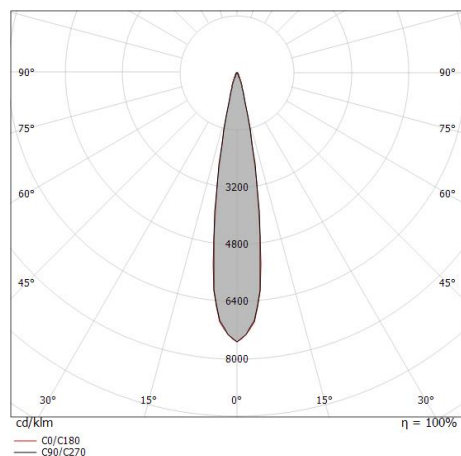
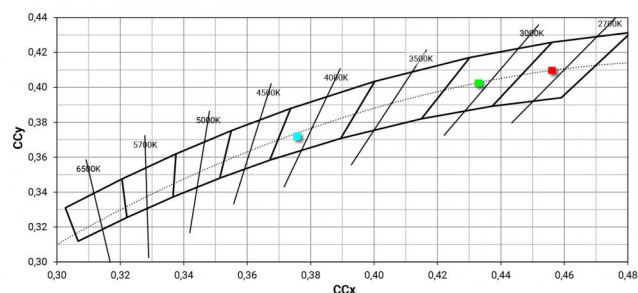
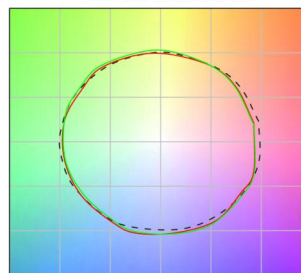
L90 B10 C0 70385h (at Tj 65 Ta 25)

UGR

UGR axial	18.4
UGR transversal	18.5
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

Optik C0/C180	18°
Light distribution simmetry	Symmetrical

**COLOR VECTOR GRAPHIC**

Downlights | 1 arrayLED 18 W DC 500 mA | CRI 90

81661N15

Single emission recessed downlights for indoor application. The natural white LED light source with a spot light distribution is composed of 1 arrayLEDs with CCT of 4000 K and a CRI 90; the source luminous flux is 3044 lm, with a 169.1 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a text white ral9003 finish, processed by means of powder coating with thermosetting powders; the mounting frame is made of die-cast aluminium en ab - 46100, with a text white ral9003 finish, processed by means of powder coating with thermosetting powders.

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.

Energieeffizienzklasse

Dieses Produkt enthält eine Lichtquelle der Energieeffizienzklasse D.

Illuminotechnical Eigenschaften

Light Output Ratio (LOR)	48 %
Lichtstrom (Lichtquelle)	3044 lm
Leuchten Lichtstrom	1464 lm
Consumption	12 W
Leuchten Lichtausbeute	122 lm/W
Farbtemperatur	4000 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 237566h (at Tj 65 Ta 25)

L80 B10 C0 148737h (at Tj 65 Ta 25)

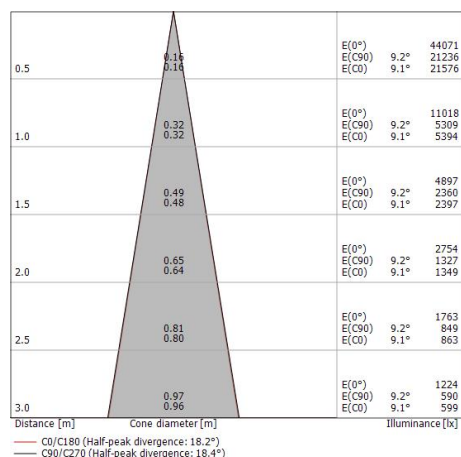
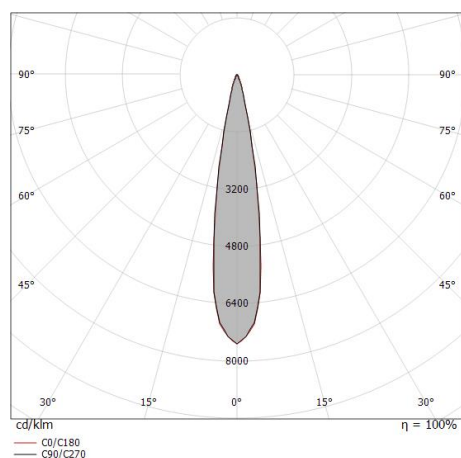
L90 B10 C0 70385h (at Tj 65 Ta 25)

UGR

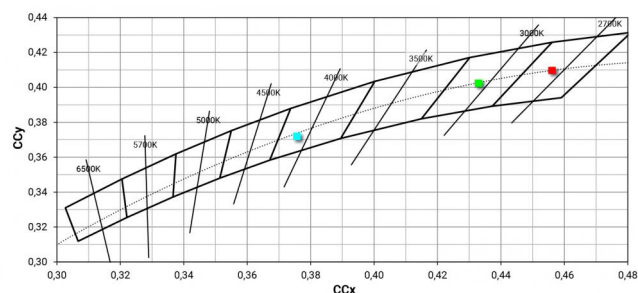
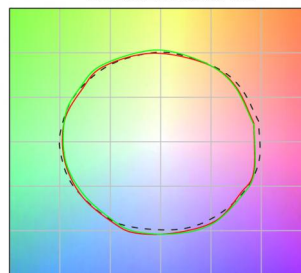
UGR axial	17.3
UGR transversal	17.4
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

Optik C0/C180	18°
Light distribution simmetry	Symmetrical



COLOR VECTOR GRAPHIC



Optus_EX | Downlights | Accessories
81661N15



Optik
Lichtverteilung: spot,Material Verkleidung: uv beständiges polycarbonat

Code
99827



Optik
Lichtverteilung: medium flood,Material Verkleidung: uv beständiges polycarbonat

Code
99828



Optik
Lichtverteilung: flood,Material Verkleidung: uv beständiges polycarbonat

Code
99829



Blendschutz
Blendschutzart: wabenraster.
Material:Pom-C, farbe:Schwarz.

Code
99780



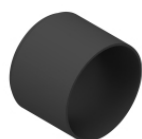
Diffusor
Diffusorart: filtro ellittico.
Material:Pom-C, farbe:Schwarz.

Code
99781



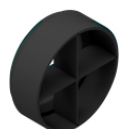
Blendschutz
Blendschutzart: schermo cilindrico 45°.
Material:Pom-C, farbe:Schwarz.

Code
99782



Blendschutz
Blendschutzart: schermo cilindrico.
Material:Pom-C, farbe:Schwarz.

Code
99783



Blendschutz
Blendschutzart: frangiluce a croce.
Material:Pom-C, farbe:Schwarz.

Code
99779

Optus_EX | Downlights | Accessories
81661N15



Fuhrmann

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

Material:PC, farbe:Black.

Code

99510



Optik - Fokus-Kit (min 16° max 50°)

Lichtverteilung: einstellbar,Material Verkleidung: extra-helles glas - gehärtet

Code

99844