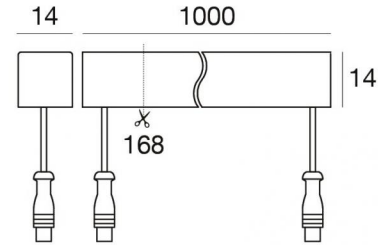
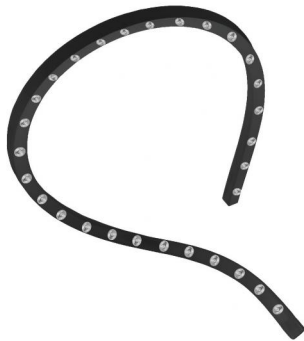


# Rubber 3D Optic



LED Strip | 36 topLED 22 W DC 24 V | 22 W/m  
2185 Lm/m | CRI 85  
**82219M20**



Technische Daten	
Länge	1000 mm
Minimaler Schnitt	168 mm
Typ	LED Strip
Installationsposition	Wand - Decke - Boden
Installationsumgebung	Outdoor
Lichtquelle	LED
Circuit structure	topLED
Optik	Flood
Light emission direction	downward
Lampe Nennleistung	22 W DC
Lampenleistung / m	22 W / m
Lichtstrom (Lichtquelle)	2185 lm
Lichtstrom (Lichtquelle) / m	2185 lm / m
Ähnlichste Farbtemperatur / Tone	2700 K
Farbwiedergabeindex	85 Ra
Gleichstrom/Gleichspannung	CV
Isolierklasse	3
IP	IP67
IK	IK07
Glühdrahtprüfung	960°
Direkte Montage auf normal entflammaren Oberflächen	Ja
CE	Ja
ETL	Ja
Einschließlich Driver	Nein
Leuchte dimmbar	DALI - 1-10V
Schwenkbarkeit	Nein
Drehbarkeit	Nein
Begehbarkeit	Nein
Überrollbarkeit	Nein
Einschließlich Kabel	Ja
Kabellänge	1(M)x0.25 m + 1(F)x0.25 m
Harzbeschichtung	Ja
Typ Lichtabstrahlung	Einflammig
Länge	1000 mm
Nettogewicht	0.29 Kg
Schutz vor elektrostatischen Entladungen	Nein
Schutz vor Stoßspannungen	Nein

## Oberfläche Gehäuse

Material	Technopolymer
Farbe	Schwarz

## Oberfläche Diffusor

Material	PU
Farbe	Schwarz

## Elektronik

- 
**99331**  
On/Off Driver 198-264V AC / 176-275V DC 150 W (1 - 6 art.)
- 
**99332**  
1-10V Controller (1 - 6 art.)
- 
**99374**  
On/Off Driver 198-264V AC / 176-275V DC 75 W (1 - 3 art.)
- 
**83333**  
Push and Simply Dim - DALI-2 Controller (1 - 6 art.)
- 
**C-E400002**  
Push and Simply Dim - DALI-2 Controller (1 - 10 art.)

# Rubber 3D Optic



LED Strip | 36 topLED 22 W DC 24 V | 22 W/m | 2185 Lm/m | CRI 85  
**82219M20**

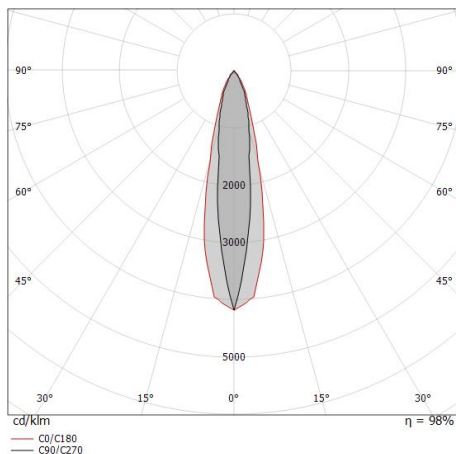
Single emission led strip for outdoor application. The super warm white LED light source with a flood light distribution is composed of 36 topLED LEDs with CCT of 2700 K and a CRI 85; the source luminous flux is 2185 lm, with a 99.3 lm/W nominal luminous efficacy.

The device body is made of technopolymer and features a black finish; the diffuser is made of pu. The ingress protection degree is IP67; the total weight is of 0.29 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 22 W. The power supply cable is included and features a 1(M)x0.25 m + 1(F)x0.25 m length.

The device features protection class III and can be wall lights, ceiling or floor-mounted with an outer casing, code 82199(for concrete or masonry).

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



Distance [m]	Cone diameter [m]	illuminance [lx]
0.5	0.16 0.24	E(0°) 25326 E(C90) 7.8° 12442 E(C0) 13.3° 11712
1.0	0.27 0.47	E(0°) 6331 E(C90) 7.8° 3111 E(C0) 13.3° 2928
1.5	0.41 0.71	E(0°) 2814 E(C90) 7.8° 1362 E(C0) 13.3° 1301
2.0	0.55 0.95	E(0°) 1583 E(C90) 7.8° 778 E(C0) 13.3° 732
2.5	0.68 1.18	E(0°) 1013 E(C90) 7.8° 498 E(C0) 13.3° 468
3.0	0.82 1.42	E(0°) 703 E(C90) 7.8° 346 E(C0) 13.3° 325

Distance [m]      Cone diameter [m]      illuminance [lx]

— C0/C180 (Half-peak divergence: 26.6°)  
 — C90/C270 (Half-peak divergence: 15.6°)

## Energieeffizienzklasse

Dieses Produkt enthält 2 Lichtquellen der Energieeffizienzklasse F.

## Illuminotechnical Eigenschaften

Light Output Ratio (LOR)	69 %
Lichtstrom (Lichtquelle)	2185 lm
Leuchten Lichtstrom	1514 lm
Consumption	22 W
Leuchten Lichtausbeute	68 lm/W
Farbtemperatur	2700 K
Standard Deviation of Colour Matching	3 Step MacAdam
Farbwiedergabeindex	85 Ra
Verbindungstemperatur (Leuchte)	80
Standardumgebungstemperatur	-20 / +50°C

## LED Life / Failure Ratio

L70 B20 C0 72500h (at Tj 115 Ta 25 )

## UGR

UGR axial	10
UGR transversal	12.6
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

## OPTICAL

Optik C90/C270	16°
Optik C0/C180	27°
Light distribution simmetry	Symmetrical 2 assis

# Rubber 3D Optic



LED Strip | 36 topLED 22 W DC 24 V | 22 W/m | 2185 Lm/m | CRI 85

**82219M20**

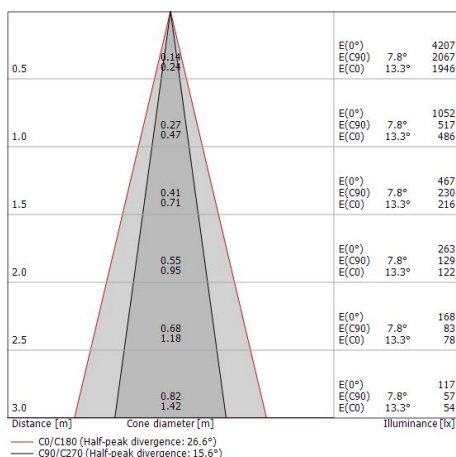
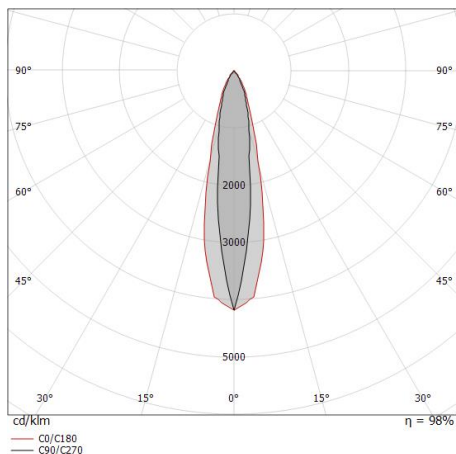
Single emission led strip for outdoor application. The super warm white LED light source with a flood light distribution is composed of 36 topLED LEDs with CCT of 2700 K and a CRI 85; the source luminous flux is 2185 lm, with a 99.3 lm/W nominal luminous efficacy.

The device body is made of technopolymer and features a black finish; the diffuser is made of pu. The ingress protection degree is IP67; the total weight is of 0.29 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 22 W. The power supply cable is included and features a 1(M)x0.25 m + 1(F)x0.25 m length.

The device features protection class III and can be wall lights, ceiling or floor-mounted with an outer casing, code 82199(for concrete or masonry).

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



## Energieeffizienzklasse

Dieses Produkt enthält 2 Lichtquellen der Energieeffizienzklasse F.

## Illuminotechnical Eigenschaften

Light Output Ratio (LOR)	11 %
Lichtstrom (Lichtquelle)	2185 lm
Leuchten Lichtstrom	252 lm
Consumption	3.5 W
Leuchten Lichtausbeute	72 lm/W
Farbtemperatur	2700 K
Standard Deviation of Colour Matching	3 Step MacAdam
Farbwiedergabeindex	85 Ra
Verbindungstemperatur (Leuchte)	80
Standardumgebungstemperatur	-20 / +50°C

## LED Life / Failure Ratio

L70 B20 C0 72500h (at Tj 115 Ta 25 )

## UGR

UGR axial	10
UGR transversal	12.6
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

## OPTICAL

Optik C90/C270	16°
Optik C0/C180	27°
Light distribution simmetry	Symmetrical 2 assis

# Rubber 3D Optic



LED Strip | 36 topLED 22 W DC 24 V | 22 W/m | 2185 Lm/m | CRI 85

**82219M20**

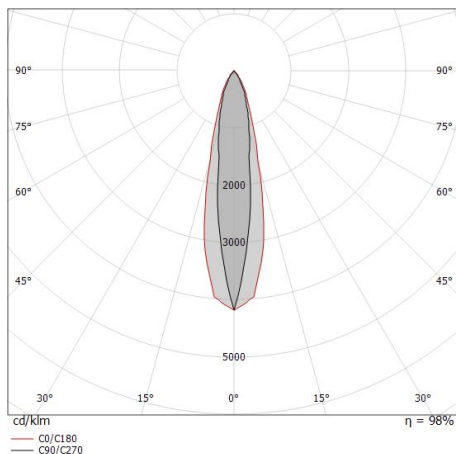
Single emission led strip for outdoor application. The super warm white LED light source with a flood light distribution is composed of 36 topLED LEDs with CCT of 2700 K and a CRI 85; the source luminous flux is 2185 lm, with a 99.3 lm/W nominal luminous efficacy.

The device body is made of technopolymer and features a black finish; the diffuser is made of pu. The ingress protection degree is IP67; the total weight is of 0.29 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 22 W. The power supply cable is included and features a 1(M)x0.25 m + 1(F)x0.25 m length.

The device features protection class III and can be wall lights, ceiling or floor-mounted with an outer casing, code 82199(for concrete or masonry).

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



Distance [m]	Cone diameter [m]	illuminance [lx]
0.5	0.16 0.24	E(0°) 12613 E(C90) 7.8° 6196 E(C0) 13.3° 5833
1.0	0.27 0.47	E(0°) 3153 E(C90) 7.8° 1549 E(C0) 13.3° 1458
1.5	0.41 0.71	E(0°) 1401 E(C90) 7.8° 888 E(C0) 13.3° 648
2.0	0.55 0.95	E(0°) 788 E(C90) 7.8° 387 E(C0) 13.3° 365
2.5	0.68 1.18	E(0°) 505 E(C90) 7.8° 248 E(C0) 13.3° 233
3.0	0.82 1.42	E(0°) 350 E(C90) 7.8° 172 E(C0) 13.3° 162

Distance [m]      Cone diameter [m]      illuminance [lx]

— C0/C180 (Half-peak divergence: 26.6°)  
— C90/C270 (Half-peak divergence: 15.6°)

## Energieeffizienzklasse

Dieses Produkt enthält 2 Lichtquellen der Energieeffizienzklasse F.

## Illuminotechnical Eigenschaften

Light Output Ratio (LOR)	34 %
Lichtstrom (Lichtquelle)	2185 lm
Leuchten Lichtstrom	754 lm
Consumption	11 W
Leuchten Lichtausbeute	68 lm/W
Farbtemperatur	2700 K
Standard Deviation of Colour Matching	3 Step MacAdam
Farbwiedergabeindex	85 Ra
Verbindungstemperatur (Leuchte)	80
Standardumgebungstemperatur	-20 / +50°C

## LED Life / Failure Ratio

L70 B20 C0 72500h (at Tj 115 Ta 25 )

## UGR

UGR axial	10
UGR transversal	12.6
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

## OPTICAL

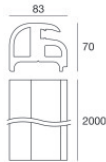
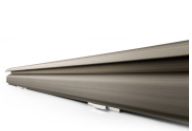
Optik C90/C270	16°
Optik C0/C180	27°
Light distribution simmetry	Symmetrical 2 assis

# Rubber 3D Optic



LED Strip | 36 topLED 22 W DC 24 V | 22 W/m | 2185 Lm/m | CRI 85  
**82219M20**

## Components



D-Wave

**Code**

77407

# Rubber 3D Optic



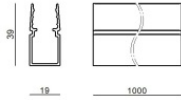
Rubber 3D Optic | LED Strip | Accessories  
82219M20

		<p>Einbaugehäuse - Linearprofil aus Aluminium 19x18x1000mm für Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3d Pixel installationsposition: wand, decke L=1000mm, H=18mm, D=19mm. Material:Aluminium, farbe:Aluminium, bearbeitungstyp :Eloxierung.</p>	<p><b>Finish</b> [Black Box]</p> <p><b>Code</b> 99549</p>
		<p>Einbaugehäuse - Linearprofil aus Aluminium 19x18x2000mm für Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel installationsposition: wand, decke L=2000mm, H=18mm, D=19mm. Material:Aluminium, farbe:Aluminium, bearbeitungstyp :Eloxierung.</p>	<p><b>Finish</b> [Black Box]</p> <p><b>Code</b> 82198</p>
		<p>Profil - Schwarzes Aluminium 18x19 Profil 1m für Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel Material:Aluminium, farbe:Schwarz, bearbeitungstyp :Eloxierung.</p>	<p><b>Code</b> C-K100007</p>
		<p>Profil - Schwarzes Aluminium 18x19 Profil 2m für Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel Material:Aluminium, farbe:Schwarz, bearbeitungstyp :Eloxierung.</p>	<p><b>Code</b> C-K100008</p>
		<p>Klammer - Clip mit Zahnfeder - Anodised Aluminium - für Rubber 3D (nicht für Rubber 3D PROtection) installationsposition: wand, decke L=50mm, H=23mm, D=21mm. Material:Aluminium, farbe:Aluminium, bearbeitungstyp :Eloxierung.</p>	<p><b>Finish</b> [Black Box]</p> <p><b>Code</b> C-F400001</p>
		<p>Klammer - Clip mit Zahnfeder - Anodised Black Aluminium - für Rubber 3D (nicht für Rubber 3D PROtection) installationsposition: wand, decke L=50mm, H=23mm, D=21mm. Material:Aluminium, farbe:Schwarz, bearbeitungstyp :Eloxierung.</p>	<p><b>Finish</b> [Black Box]</p> <p><b>Code</b> C-F400002</p>
		<p>Einbaugehäuse - Linearprofil mit Aluminium-Kabelkanal 39x18x1000mm für Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel installationsposition: wand, decke L=2000mm, H=39mm, D=19mm. Material:Aluminium, farbe:Aluminium, bearbeitungstyp :Eloxierung.</p>	<p><b>Finish</b> [Black Box]</p> <p><b>Code</b> 83034</p>
		<p>Einbaugehäuse - Linearprofil mit Aluminium-Kabelkanal 39x18x2000mm für Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel installationsposition: wand, decke L=1000mm, H=39mm, D=19mm. Material:Aluminium, farbe:Aluminium, bearbeitungstyp :Eloxierung.</p>	<p><b>Finish</b> [Black Box]</p> <p><b>Code</b> 82199</p>

# Rubber 3D Optic

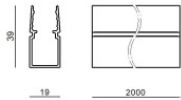


Rubber 3D Optic | LED Strip | Accessories  
82219M20



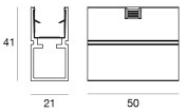
Profil - Profil 39x19 Aluminium schwarz 1m für Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel  
Material:Aluminium, farbe:Schwarz, bearbeitungstyp :Eloxierung.

**Code**  
C-K100009



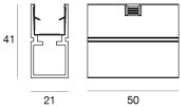
Profil - Profil 39x19 Aluminium schwarz 2m für Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel  
Material:Aluminium, farbe:Schwarz, bearbeitungstyp :Eloxierung.

**Code**  
C-K100010



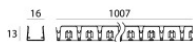
Klammer - Clip mit Zahnfeder mit Kabeldurchlass - Anodised Aluminium - für Rubber 3D (nicht für Rubber 3D PROtection)  
installationsposition: wand, decke L=50mm, H=41mm, D=21mm.  
Material:Aluminium, farbe:Aluminium, bearbeitungstyp :Eloxierung.

**Finish**  
**Code**  
C-F400003



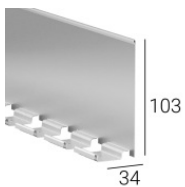
Klammer - Clip mit Zahnfeder mit Kabeldurchlass - Anodised Black Aluminium - für Rubber 3D (nicht für Rubber 3D PROtection)  
installationsposition: wand, decke L=50mm, H=41mm, D=21mm.  
Material:Aluminium, farbe:Schwarz, bearbeitungstyp :Eloxierung.

**Finish**  
**Code**  
C-F400004



Profil - Flexibles Profil  
Material:Stahl AISI 304, farbe:Stahl.

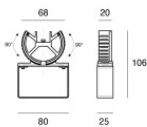
**Code**  
C-K100011



103  
34

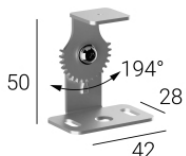
Blendschutz - Blendfreies Augenlid mit Fischgrätenmuster  
Blendschutzart: palpebra.  
Material:Aluminium 6060, farbe:Eloxiertes Aluminium, bearbeitungstyp :Anodisierung 20 µm.

**Finish**  
**Code**  
C-K100032



Tüte / Befestigungsset - KIPPVORRICHTUNG + HALTERUNG D68X20 - Transparent - für Rubber 3D (nicht Rubber 3D PROtection)

**Code**  
83352



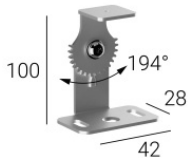
Tüte / Befestigungsset - Wandkipp-Set aus AISI 304-Stahl

**Code**  
C-K400168

# Rubber 3D Optic

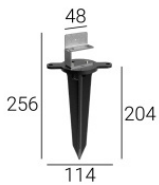


Rubber 3D Optic | LED Strip | Accessories  
**82219M20**



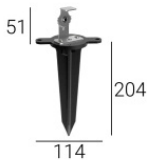
Tüte / Befestigungsset - Wandkipp-Set aus AISI 304-Stahl

**Code**  
C-K400169



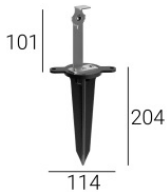
Tüte / Befestigungsset - ZAPFEN + HALTERUNG ZAPFEN + HALTERUNG ZAPFEN + HALTERUNG D114X204 für Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel

**Code**  
83351



Tüte / Befestigungsset - Bodenpfahl mit kippbarer Halterung

**Code**  
C-F500004



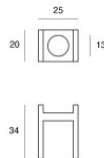
Tüte / Befestigungsset - Bodenpfahl mit kippbarer Halterung

**Code**  
C-F500005



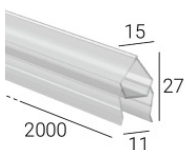
Endkappe  
Material:, farbe:transparent.

**Code**  
99539



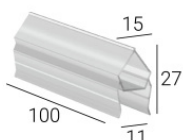
Lochschablone

**Code**  
C-V200005



Profil  
Material:Polycarbonat UV-beständige, farbe:transparent.

**Code**  
C-K100021



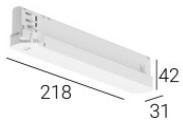
Profil  
Material:Polycarbonat UV-beständige, farbe:transparent.

**Code**  
C-K100022



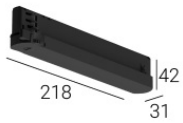


Rubber 3D Optic | LED Strip | Accessories  
**82219M20**



Elektronisches Zubehör  
installationsposition: decke L=218mm, H=42mm, D=31mm.  
Material:Kunststoff ABS, farbe:Weiß.

**Code**  
C-E300007



Elektronisches Zubehör  
installationsposition: decke L=218mm, H=42mm, D=31mm.  
Material:Kunststoff ABS, farbe:Schwarz.

**Code**  
C-E300008



Kabelklemme

**Code**  
98990



Stecker

**Code**  
89548



Strip Service - Doppelseitiges Klebeband 33 Meter

**Code**  
99520