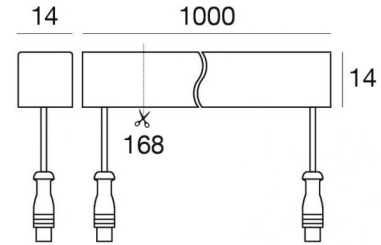
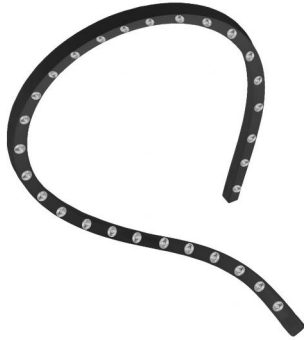


# Rubber 3D Optic



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



Datos técnicos	
Largo	1000 mm
Corte mínimo	168 mm
Tipo	LED Strip
Posición de instalación	Pared - Techo - Piso
Ambiente de instalación	Exteriores
Fuente de luz	LED
Circuit structure	topLED
Óptica	Flood
Light emission direction	downward
Potencia nominal	22 W DC
Potencia / m	22 W / m
Flujo luminoso (fuente)	2185 lm
Flujo luminoso (fuente) / m	2185 lm / m
Rango de voltaje de entrada	24V
CCT / Tone	2700 K
Índice de rendimientos cromático	85 Ra
C.C. / C.V.	CV
Clase de aislamiento	3
IP	IP67
IK	IK07
Test del hilo incandescente	960°
Montaje directo sobre superficies normalmente inflamables	Sí
CE	Sí
ETL	Sí
Driver incluido.	No
Artículo regulable	DALI - 1-10V
Orientabilidad	No
Basculación	No
Practicabilidad	No
Transitabilidad	No
Cable incluido.	Sí
Largo del cable	1(M)x0.25 m + 1(F)x0.25 m
Resinado	Sí
Tipología de emisión luminosa	Una emisión
Largo	1000 mm
Peso neto	0.29 Kg
Protección descargas electrostáticas	No
Protección contra sobretensiones	No


## Acabado cuerpo


Material	Tecnopolímero
Color	negro


## Acabado difusor


Material	PU
Color	negro


## Electrónica

 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**

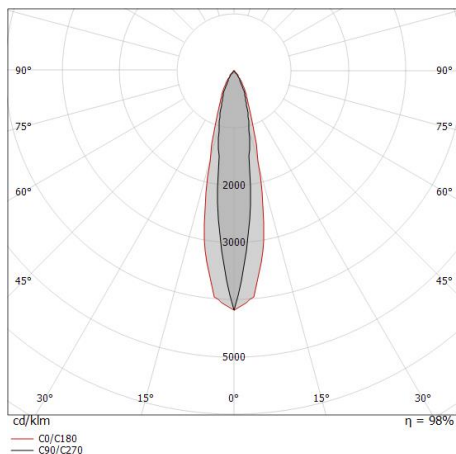
Single emission led strip for outdoor application. The super warm white LED light source with a flood light distribution is composed of 36 topLED LEDs with CCT of 2700 K and a CRI 85; the source luminous flux is 2185 lm, with a 99.3 lm/W nominal luminous efficacy.

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°)

## Clase de eficiencia energética

Este producto contiene 2 fuentes de luz de clase de eficiencia energética F.

## Características Luminotécnicas

Light Output Ratio (LOR)	69 %
Flujo luminoso (fuente)	2185 lm
Flujo luminoso de luminaria	1514 lm
Consumption	22 W
Rendimiento luminoso de las luminarias	68 lm/W
Temperatura de color	2700 K
Standard Deviation of Colour Matching	3 Step MacAdam
Índice de rendimientos cromático	85 Ra
Temperatura de unión (luminaria)	80

Temperatura estándar del ambiente de servicio -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

Óptica C90/C270	16°
Óptica 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**

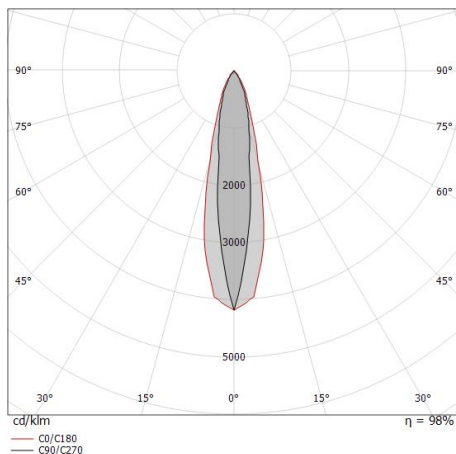
Single emission led strip for outdoor application. The super warm white LED light source with a flood light distribution is composed of 36 topLED LEDs with CCT of 2700 K and a CRI 85; the source luminous flux is 2185 lm, with a 99.3 lm/W nominal luminous efficacy.

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°) 4207 E(C90) 2067 E(C0) 1946
1.0	0.27 0.47	E(0°) 1052 E(C90) 517 E(C0) 486
1.5	0.41 0.71	E(0°) 467 E(C90) 230 E(C0) 216
2.0	0.55 0.95	E(0°) 263 E(C90) 129 E(C0) 122
2.5	0.68 1.18	E(0°) 168 E(C90) 83 E(C0) 78
3.0	0.82 1.42	E(0°) 117 E(C90) 57 E(C0) 54

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

## Clase de eficiencia energética

Este producto contiene 2 fuentes de luz de clase de eficiencia energética F.

## Características Luminotécnicas

Light Output Ratio (LOR)	11 %
Flujo luminoso (fuente)	2185 lm
Flujo luminoso de luminaria	252 lm
Consumption	3.5 W
Rendimiento luminoso de las luminarias	72 lm/W
Temperatura de color	2700 K
Standard Deviation of Colour Matching	3 Step MacAdam
Índice de rendimientos cromático	85 Ra
Temperatura de unión (luminaria)	80

Temperatura estándar del ambiente de servicio -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

Óptica C90/C270	16°
Óptica 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**

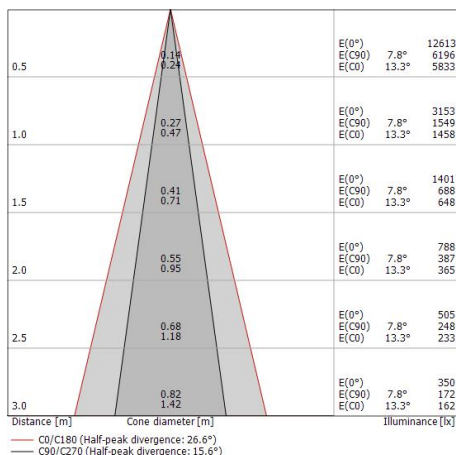
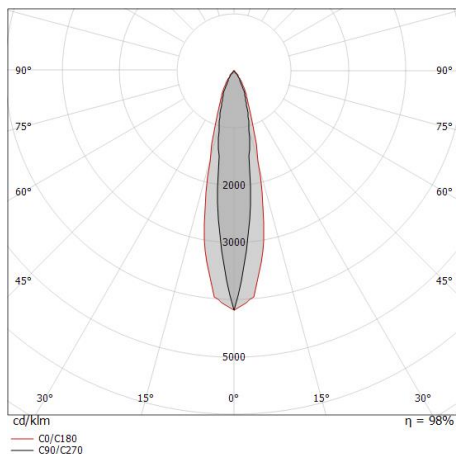
Single emission led strip for outdoor application. The super warm white LED light source with a flood light distribution is composed of 36 topLED LEDs with CCT of 2700 K and a CRI 85; the source luminous flux is 2185 lm, with a 99.3 lm/W nominal luminous efficacy.

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.



## Clase de eficiencia energética

Este producto contiene 2 fuentes de luz de clase de eficiencia energética F.

## Características Luminotécnicas

Light Output Ratio (LOR)	34 %
Flujo luminoso (fuente)	2185 lm
Flujo luminoso de luminaria	754 lm
Consumption	11 W
Rendimiento luminoso de las luminarias	68 lm/W
Temperatura de color	2700 K
Standard Deviation of Colour Matching	3 Step MacAdam
Índice de rendimientos cromático	85 Ra
Temperatura de unión (luminaria)	80

Temperatura estándar del ambiente de servicio -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

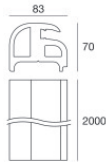
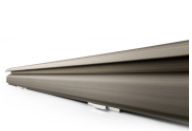
Óptica C90/C270	16°
Óptica C0/C180	27°
Light distribution simmetry	Symmetrical 2 assis

# 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>Caja de empotrar - Perfil lineal en aluminio 19x18x1000mm para Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3d Pixel posición de instalación: pared, techo L=1000mm, H=18mm, D=19mm. Material:aluminio, color:aluminio, elaboración :Anodizado.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>████████</td> <td>99549</td> </tr> </tbody> </table>	Finish	Code	████████	99549
Finish	Code						
████████	99549						
		<p>Caja de empotrar - Perfil lineal en aluminio 19x18x2000mm para Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel posición de instalación: pared, techo L=2000mm, H=18mm, D=19mm. Material:aluminio, color:aluminio, elaboración :Anodizado.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>████████</td> <td>82198</td> </tr> </tbody> </table>	Finish	Code	████████	82198
Finish	Code						
████████	82198						
		<p>Perfil - Perfil de aluminio negro 18x19 1m para Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel Material:aluminio, color:negro, elaboración :Anodizado.</p>	<table border="1"> <thead> <tr> <th>Code</th> </tr> </thead> <tbody> <tr> <td>C-K100007</td> </tr> </tbody> </table>	Code	C-K100007		
Code							
C-K100007							
		<p>Perfil - Perfil de aluminio negro 18x19 2m para Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel Material:aluminio, color:negro, elaboración :Anodizado.</p>	<table border="1"> <thead> <tr> <th>Code</th> </tr> </thead> <tbody> <tr> <td>C-K100008</td> </tr> </tbody> </table>	Code	C-K100008		
Code							
C-K100008							
		<p>Soporte - Clip con muelle dentado - Anodised Aluminium - para Rubber 3D (no para Rubber 3D PROtection) posición de instalación: pared, techo L=50mm, H=23mm, D=21mm. Material:aluminio, color:aluminio, elaboración :Anodizado.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>████████</td> <td>C-F400001</td> </tr> </tbody> </table>	Finish	Code	████████	C-F400001
Finish	Code						
████████	C-F400001						
		<p>Soporte - Clip con muelle dentado - Anodised Black Aluminium - para Rubber 3D (no para Rubber 3D PROtection) posición de instalación: pared, techo L=50mm, H=23mm, D=21mm. Material:aluminio, color:negro, elaboración :Anodizado.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>████████</td> <td>C-F400002</td> </tr> </tbody> </table>	Finish	Code	████████	C-F400002
Finish	Code						
████████	C-F400002						
		<p>Caja de empotrar - Perfil lineal con canalización de aluminio 39x18x1000mm para Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel posición de instalación: pared, techo L=2000mm, H=39mm, D=19mm. Material:aluminio, color:aluminio, elaboración :Anodizado.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>████████</td> <td>83034</td> </tr> </tbody> </table>	Finish	Code	████████	83034
Finish	Code						
████████	83034						
		<p>Caja de empotrar - Perfil lineal con canalización de aluminio 39x18x2000mm para Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel posición de instalación: pared, techo L=1000mm, H=39mm, D=19mm. Material:aluminio, color:aluminio, elaboración :Anodizado.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>████████</td> <td>82199</td> </tr> </tbody> </table>	Finish	Code	████████	82199
Finish	Code						
████████	82199						

# Rubber 3D Optic



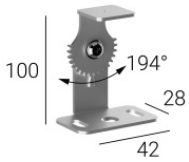
Rubber 3D Optic | LED Strip | Accessories  
**82219M20**

		<p>Perfil - Perfil 39x19 Aluminio negro 1m para Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel            Material:aluminio, color:negro, elaboración :Anodizado.</p>	<p><b>Code</b>  <u>C-K100009</u></p>
		<p>Perfil - Perfil 39x19 Aluminio negro 2m para Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel            Material:aluminio, color:negro, elaboración :Anodizado.</p>	<p><b>Code</b>  <u>C-K100010</u></p>
		<p>Soporte - Pinza con muelle dentado con paso de cable - Anodised Aluminium - para Rubber 3D (no para Rubber 3D PROtection)            posición de instalación: pared, techo L=50mm, H=41mm, D=21mm.            Material:aluminio, color:aluminio, elaboración :Anodizado.</p>	<p><b>Finish</b>            [Redacted]  <b>Code</b>  <u>C-F400003</u></p>
		<p>Soporte - Pinza con muelle dentado con paso de cable - Anodised Black Aluminium - para Rubber 3D (no para Rubber 3D PROtection)            posición de instalación: pared, techo L=50mm, H=41mm, D=21mm.            Material:aluminio, color:negro, elaboración :Anodizado.</p>	<p><b>Finish</b>            [Redacted]  <b>Code</b>  <u>C-F400004</u></p>
		<p>Perfil - Perfil flexible            Material:Acero AISI 304, color:acero.</p>	<p><b>Code</b>  <u>C-K100011</u></p>
		<p>antideslumbramiento - Párpado antideslumbrante en espiga            Tipo antideslumbrante: palpebra.            Material:Aluminio 6060, color:Aluminio Anodizado, elaboración :Anodizado 20 µm.</p>	<p><b>Finish</b>            [Redacted]  <b>Code</b>  <u>C-K100032</u></p>
		<p>Bolsa / Kit de fijación - KIT BASCULANTE + SOPORTE D68X20 - Transparent - para Rubber 3D (no Rubber 3D PROtection)</p>	<p><b>Code</b>  <u>83352</u></p>
		<p>Bolsa / Kit de fijación - Kit basculante de pared en acero AISI 304</p>	<p><b>Code</b>  <u>C-K400168</u></p>

# Rubber 3D Optic



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



Bolsa / Kit de fijación - Kit basculante de pared en acero AISI 304

**Code**  
C-K400169



Bolsa / Kit de fijación - CLAVIJA + SOPORTE CLAVIJA + SOPORTE CLAVIJA + SOPORTE D114X204 para Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel

**Code**  
83351



Bolsa / Kit de fijación - Piqueta de tierra con soporte inclinable - altura 101 mm

**Code**  
C-F500004



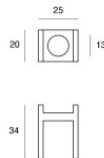
Bolsa / Kit de fijación - Piqueta de tierra con soporte inclinable - altura 101 mm

**Code**  
C-F500005



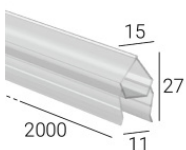
Tapón  
Color:transparente.

**Code**  
99539



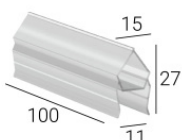
Plantilla

**Code**  
C-V200005



Perfil  
Material:Polycarbonato resistente a los rayos UV, color:transparente.

**Code**  
C-K100021



Perfil  
Material:Polycarbonato resistente a los rayos UV, color:transparente.

**Code**  
C-K100022

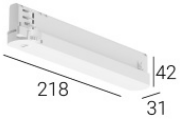


# Rubber 3D Optic



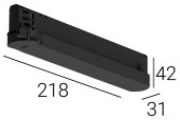
Rubber 3D Optic | LED Strip | Accessories

**82219M20**



Accesorio electronico  
posición de instalación: techo L=218mm, H=42mm, D=31mm.  
Material:Plástico ABS, color:blanco.

**Code**  
C-E300007



Accesorio electronico  
posición de instalación: techo L=218mm, H=42mm, D=31mm.  
Material:Plástico ABS, color:negro.

**Code**  
C-E300008



Prensacable

**Code**  
98990



Conector

**Code**  
89548



Strip service - Cinta de doble cara 33 metros

**Code**  
99520