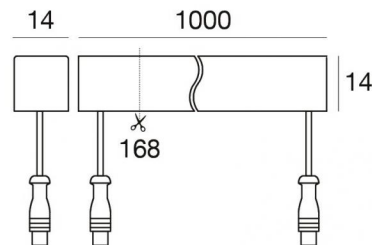
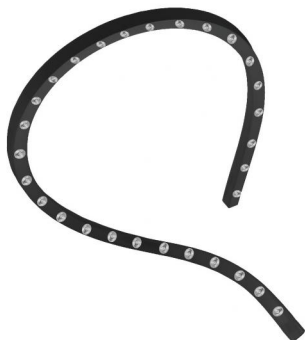


Rubber 3D Optic



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

82219M20



Technical data	
Length	1000 mm
Minimum cut	168 mm
Type	LED Strip
Installation position	Wall lights - Ceiling - Floor
Installation environment	Outdoor
Light Source	LED
Circuit structure	topLED
Optics	Flood
Light emission direction	downward
Nominal power	22 W DC
Power / m	22 W / m
Source lumens	2185 lm
Source lumens / m	2185 lm / m
Input voltage range	24V
CCT / Tone	2700 K
Colour rendering index	85 Ra
C.C. / C.V.	CV
Safety class	3
IP	IP67
IK	IK07
Glow wire test	960°
Direct mounting on normally flammable surfaces	Yes
CE	Yes
ETL	Yes
Driver included	No
Dimmable article	DALI - 1-10V
Directional	No
Tilting	No
Walk-over	No
Drive-over	No
Cable included	Yes
Cable length	1(M)x0.25 m + 1(F)x0.25 m
Resin potting	Yes
Type of light emission	Single emission
Length	1000 mm
Net weight	0.29 Kg
Electrostatic discharge protection	No
Surge protection	No


Finishing casing


Material	Technopolymer
Colour	black


Finishing diffuser

Material	PU
Colour	black


Electronics

 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 | Base
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.

Energy efficiency class

This product contains 2 light sources of energy efficiency class F.

Illuminotechnical Features

Light Output Ratio (LOR)	69 %
Source lumens	2185 lm
Delivered lumens	1514 lm
Consumption	22 W
Luminaire efficacy	68 lm/W
Colour temperature	2700 K
Standard Deviation of Colour Matching	3 Step MacAdam
Colour rendering index	85 Ra
Junction temperature (lighting fixture)	80

Standard Operating Ambient Temperature -20 / +50°C

LED Life / Failure Ratio

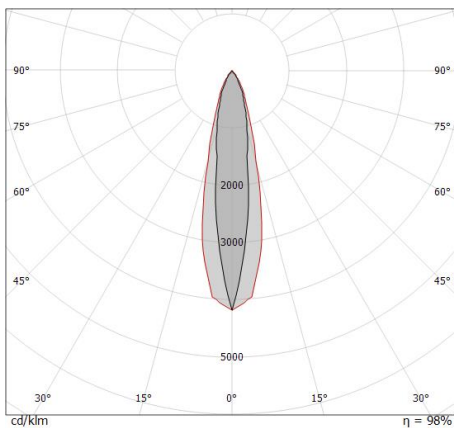
L70 B20 C0 72500h (at Tj 115 Ta 25)

UGR

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

OPTICAL

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



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°)

Rubber 3D Optic



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

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.

Energy efficiency class

This product contains 2 light sources of energy efficiency class F.

Illuminotechnical Features

Light Output Ratio (LOR)	11 %
Source lumens	2185 lm
Delivered lumens	252 lm
Consumption	3.5 W
Luminaire efficacy	72 lm/W
Colour temperature	2700 K
Standard Deviation of Colour Matching	3 Step MacAdam
Colour rendering index	85 Ra
Junction temperature (lighting fixture)	80

Standard Operating Ambient Temperature -20 / +50°C

LED Life / Failure Ratio

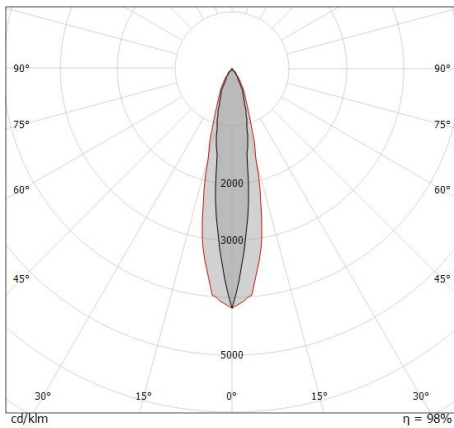
L70 B20 C0 72500h (at Tj 115 Ta 25)

UGR

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

OPTICAL

C90/C270 optics	16°
C0/C180 optics	27°
Light distribution symmetry	Symmetrical 2 axis



Distance [m]	Cone diameter [m]	illuminance [lx]
0.5	0.16 0.24	E(0°) 4207 E(C90) 7.8° 2067 E(C0) 13.3° 1946
1.0	0.27 0.47	E(0°) 1052 E(C90) 7.8° 517 E(C0) 13.3° 486
1.5	0.41 0.71	E(0°) 467 E(C90) 7.8° 230 E(C0) 13.3° 216
2.0	0.55 0.95	E(0°) 263 E(C90) 7.8° 129 E(C0) 13.3° 122
2.5	0.68 1.18	E(0°) 168 E(C90) 7.8° 83 E(C0) 13.3° 78
3.0	0.82 1.42	E(0°) 117 E(C90) 7.8° 57 E(C0) 13.3° 54

Rubber 3D Optic



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

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.

Energy efficiency class

This product contains 2 light sources of energy efficiency class F.

Illuminotechnical Features

Light Output Ratio (LOR)	34 %
Source lumens	2185 lm
Delivered lumens	754 lm
Consumption	11 W
Luminaire efficacy	68 lm/W
Colour temperature	2700 K
Standard Deviation of Colour Matching	3 Step MacAdam
Colour rendering index	85 Ra
Junction temperature (lighting fixture)	80

Standard Operating Ambient Temperature -20 / +50°C

LED Life / Failure Ratio

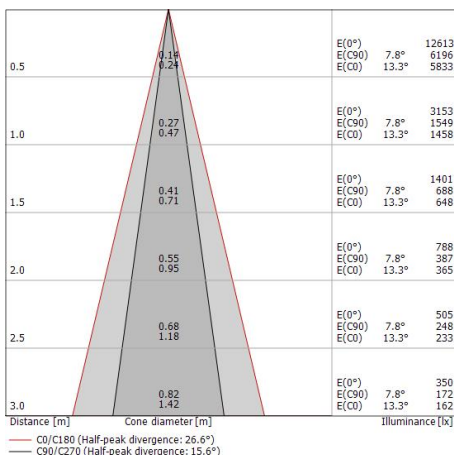
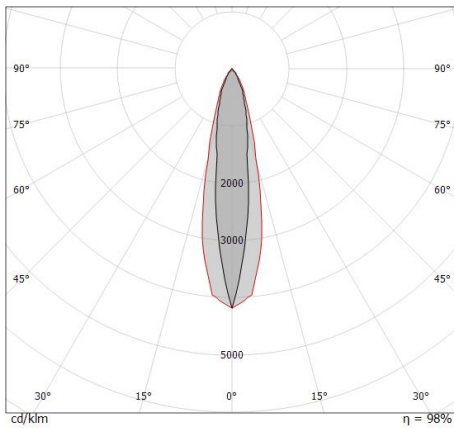
L70 B20 C0 72500h (at Tj 115 Ta 25)

UGR

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

OPTICAL

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

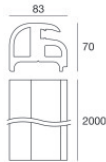
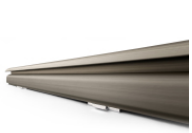


Rubber 3D Optic



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>Outer casing - Linear profile in aluminum 19x18x1000mm for Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3d Pixel installation position: wall lights, ceiling L=1000mm, H=18mm, D=19mm. Material:Aluminium, colour:Aluminium, processing:Anodisation.</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>Outer casing - Linear profile in aluminum 19x18x2000mm for Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel installation position: wall lights, ceiling L=2000mm, H=18mm, D=19mm. Material:Aluminium, colour:Aluminium, processing:Anodisation.</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>Profile - Black aluminium 18x19 profile 1m for Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel Material:Aluminium, colour:black, processing:Anodisation.</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>Profile - Black aluminium 18x19 profile 1m for Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel Material:Aluminium, colour:black, processing:Anodisation.</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>Bracket - Clip with toothed spring - Anodised Aluminium - for Rubber 3D (not for Rubber 3D PROtection) installation position: wall lights, ceiling L=50mm, H=23mm, D=21mm. Material:Aluminium, colour:Aluminium, processing:Anodisation.</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>Bracket - Clip with toothed spring - Anodised Black Aluminium - for Rubber 3D (not for Rubber 3D PROtection) installation position: wall lights, ceiling L=50mm, H=23mm, D=21mm. Material:Aluminium, colour:black, processing:Anodisation.</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>Outer casing - Linear profile with aluminium cable passage 39x18x1000mm for Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel installation position: wall lights, ceiling L=2000mm, H=39mm, D=19mm. Material:Aluminium, colour:Aluminium, processing:Anodisation.</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>Outer casing - Linear profile with aluminum cable passage 39x18x2000mm for Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel installation position: wall lights, ceiling L=1000mm, H=39mm, D=19mm. Material:Aluminium, colour:Aluminium, processing:Anodisation.</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



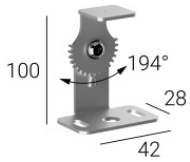
Rubber 3D Optic | LED Strip | Accessories
82219M20

		<p>Profile - Profile 39x19 Aluminum black 1m for Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel</p> <p>Material:Aluminium, colour:black, processing:Anodisation.</p>	<p>Code C-K100009</p>
		<p>Profile - Profile 39x19 Aluminum black 2m for Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel</p> <p>Material:Aluminium, colour:black, processing:Anodisation.</p>	<p>Code C-K100010</p>
		<p>Bracket - Clip with toothed spring with cable passage - Anodised Aluminium - for Rubber 3D (not for Rubber 3D PROtection)</p> <p>installation position: wall lights, ceiling L=50mm, H=41mm, D=21mm.</p> <p>Material:Aluminium, colour:Aluminium, processing:Anodisation.</p>	<p>Finish [Redacted]</p> <p>Code C-F400003</p>
		<p>Bracket - Clip with toothed spring with cable passage - Anodised Black Aluminium - for Rubber 3D (not for Rubber 3D PROtection)</p> <p>installation position: wall lights, ceiling L=50mm, H=41mm, D=21mm.</p> <p>Material:Aluminium, colour:black, processing:Anodisation.</p>	<p>Finish [Redacted]</p> <p>Code C-F400004</p>
		<p>Profile - Flexible profile</p> <p>Material:AISI 304 steel, colour:steel.</p>	<p>Code C-K100011</p>
		<p>Anti-glare - Anti-glare herringbone eyelid</p> <p>Anti-glare Type: eyelid.</p> <p>Material:Aluminium 6060, colour:Anodised Aluminum, processing:20 µm anodizing.</p>	<p>Finish [Redacted]</p> <p>Code C-K100032</p>
		<p>Bag / Fixing kit - TILTING KIT + BRACKET D68X20 - Transparent - for Rubber 3D (not Rubber 3D PROtection)</p>	<p>Code 83352</p>
		<p>Bag / Fixing kit - Wall-mounted tilting kit in AISI 304 steel</p>	<p>Code C-K400168</p>

Rubber 3D Optic



Rubber 3D Optic | LED Strip | Accessories
82219M20



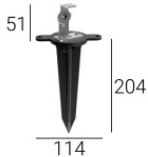
Bag / Fixing kit - Wall-mounted tilting kit in AISI 304 steel

Code
C-K400169



Bag / Fixing kit - RUBBER PEG + BRACKET RUBBER PEG + BRACKET PEG + BRACKET D114X204 for Rubber 3D, Rubber 3D Concrete, Rubber 3D 48V, Rubber 3D Optic, Rubber 3D Pixel

Code
83351



Bag / Fixing kit - Picket with tilting bracket

Code
C-F500004



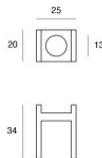
Bag / Fixing kit - Picket with tilting bracket

Code
C-F500005



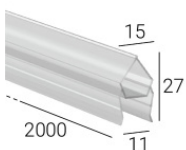
Closing cap - PU Rubber
 Material:Silicone, colour:transparent.

Code
99539



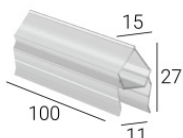
Template

Code
C-V200005



Profile
 Material:UV Resistant Polycarbonate, colour:transparent.

Code
C-K100021



Profile
 Material:UV Resistant Polycarbonate, colour:transparent.

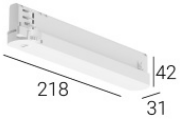
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Rubber 3D Optic



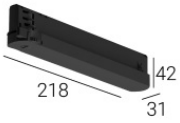
Rubber 3D Optic | LED Strip | Accessories

82219M20



Electronic accessory
installation position: ceiling L=218mm, H=42mm, D=31mm.
Material:ABS Plastic, colour:white.

Code
C-E300007



Electronic accessory
installation position: ceiling L=218mm, H=42mm, D=31mm.
Material:ABS Plastic, colour:black.

Code
C-E300008



Cable gland

Code
98990



Connector

Code
89548



Strip Service - Double sided tape 33 meters

Code
99520