



# TubePoint gen2

## BGP235 LED180-4S/740 DSM11 D9 MIO-CIO MB

TubePoint gen2, Tunnel light, 104 W, 14940 lm, 4000 K, CRI70, DALI, Distribution symmetrical medium 11, Safety class I, IP66, SRG6-6

Many tunnel authorities have outdated tunnel lighting installations that urgently need replacing, but have only a limited budget to achieve it. TubePoint Gen2 is the perfect solution. It's the cost-effective solution that's the result of years of experience in tunnel lighting and underpass lighting, combined with the latest technologies. With its modular design and state-of-the-art LED architecture, TubePoint Gen2 is a versatile, cost-effective luminaire that meets the most stringent tunnel lighting requirements. Manufactured from the highest-quality components that are specifically designed for tunnels, these tunnel luminaires promise a long lifetime, great performance and low maintenance costs. The lighting efficiency and wide choice of optics means the number of luminaires required for an installation can be reduced significantly compared with conventional solutions. And a high lumen per watt ratio at system level improves the total cost of ownership. TubePoint Gen2 is part of the TotalTunnel solution for complete tunnel lighting. A solution you can trust for versatile, high-performance lighting in traffic tunnels.

### Product data

General Information		Value ladder	Specification
Lamp family code	LED180 [LED module 18000 lm]	Warranty period	5 years
Light source replaceable	Yes	<b>Light Technical</b>	
Number of gear units	Unit	Upwards light output ratio	0
Driver included	Yes	Luminous Flux	14,940 lm
Light source engine type	LED	Correlated Colour Temperature (Nom)	4000 K
Service Tag	Yes	Luminous efficacy (rated) (nom.)	138 lm/W
Lighting Technology	LED		

## TubePoint gen2

Colour rendering index (CRI)	70
Number of light sources	56
Light source colour	740 neutral white
Luminaire light beam spread	101° x 158°
Optic type outdoor	Distribution symmetrical medium 11
Effective projected area	0.18 m <sup>2</sup>

### Operating and Electrical

Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Inrush current	53 A
Inrush time	0.3 ms
Power Consumption	104 W
Power Factor (Fraction)	0.99
Connection	-
Cable	-
Number of products on MCB (16 A type B)	8
Protection class IEC	Safety class I
Surge Protection (Common/Differential)	Surge protection level until 6 kV differential mode and 6 kV common mode

### Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
Control interface	DALI
Constant light output	No
DALI standard	DALI-2™
Maximum dim level	10%

### Mechanical and Housing

Housing material	Aluminium die cast
Reflector material	-
Optic material	Polycarbonate
Optical cover/lens material	Glass
Fixation material	Stainless steel
Housing Colour	Dark grey
Mounting device	Mounting bracket quick-release, medium
Optical cover/lens shape	Flat
Optical cover/lens finish	Clear
Overall length	363.5 mm
Overall width	485.5 mm
Overall height	89.5 mm
Dimensions (height x width x depth)	90 x 486 x 364 mm
Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK09 [10 J]
Standard tilt angle post-top	-
Standard tilt angle side entry	0°
Optical cover type	Flat glass
Net Weight (Piece)	7.000 kg

### Approval and Application

Flammability mark	For mounting on normally flammable surfaces
CE mark	Yes
ENEC mark	ENEC mark
EU RoHS compliant	Yes
Performance ambient temperature Tq	25 °C
Ambient temperature range	-30 to +50 °C

### Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-7%
Initial chromaticity	(0.3818, 0.3796) SDCM<3
Power consumption tolerance	+/-10%
Init. Colour Rendering Index Tolerance	+/-2
Standard Deviation of Colour Matching (McAdam ellipse)	SDCM≤3

### Over Time Performance (IEC Compliant)

Driver failure rate at 5,000 hours	0.5 %
Control gear failure rate at median useful life 100,000 h	10 %
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h	L97

### Sustainability Data

Sustainability rating	Signify Circle
Embedded carbon (A1-A3)	154 kg CO <sub>2e</sub>
Product non-virgin material ratio	10.2 %
Recyclable the content ratio of the finished product	43.9 %

**GWP total B6 (kg CO<sub>2eq</sub>) Declared Unit** Please calculate using your local energy mix value: Power Declared Unit (kW) \* Service life (hrs) Declared Unit \* Energy mix (kg CO<sub>2eq</sub> / kWh)

**GWP total B6 (kg CO<sub>2eq</sub>) Functional Unit** Please calculate using your local energy mix value: POWER DECLARED UNIT (kW) \* 1000 (lm) / LUMEN OUTPUT DECLARED UNIT (lm) \* 35000 (hrs) \* ENERGY MIX (kg CO<sub>2</sub> eq / kWh)

### Product Data

Order product name	BGP235 LED180-4S/740 DSM11 D9 MIO-CIO MB
Full product name	BGP235 LED180-4S/740 DSM11 D9 MIO-CIO MB
Full EOC	871869948294700
Order code	912300024112
Material no. (12 NC)	912300024112
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8718699482947
Numerator – packs per outer box	1
EAN/UPC – Case	8718699482947

# TubePoint gen2

Product family code

BGP235 [TubePoint GEN2 Small]

## Dimensional drawing

