



# TubePoint gen2

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

TubePoint GEN2 Small - LED module 18000 lm - 740 neutral white - Power supply unit with DALI interface - Safety class I - Distribution symmetrical medium 11 - Dark Grey

Many tunnel authorities have an outdated tunnel-lighting installation that urgently needs to be replaced, but have only limited budget available. We are able to fulfil their requirements. TubePoint GEN2 is the result of years of experience in tunnel lighting combined with the latest technologies developed by Philips. With its modular design and modern LED architecture, TubePoint GEN2 is a versatile, cost-effective luminaire that meets the most stringent tunnel-lighting requirements. It is made of highest-quality components that are dedicated for tunnels, thus ensuring a long lifetime, good performance and low maintenance costs. The efficiency and wide choice of optics means that the number of luminaires can be reduced significantly compared with a conventional solution. And a high lumen per watt ratio at system level improves the total cost of ownership. TubePoint GEN2 is part of Philips' TotalTunnel solution for a complete tunnel lighting.

### Product data

General Information		Control interface	DALI
Number of light sources	56 [ 56 pcs]	Connection	-
Lamp family code	LED180 [ LED module 18000 lm]	Cable	-
Light source colour	740 neutral white	Protection class IEC	Safety class I
Light source replaceable	Yes	Flammability mark	F [ For mounting on normally flammable surfaces]
Number of gear units	1 unit	CE mark	CE mark
Driver/power unit/transformer	PSD [ Power supply unit with DALI interface]	ENEC mark	ENEC mark
Driver included	Yes	Warranty period	5 years
Optical cover/lens type	FG [ Flat glass]	Optic type outdoor	Distribution symmetrical medium 11
Luminaire light beam spread	101° x 158°		

## TubePoint gen2

Constant light output	No
Number of products on MCB (16 A type B)	8
EU RoHS compliant	Yes
Light source engine type	LED
Serviceability class	Class A, the luminaire is equipped with serviceable parts (when applicable): LED board, driver, control units, surge-protection device, optics, front cover and mechanical parts
Product family code	BGP235 [ TubePoint GEN2 Small]

### Light Technical

Upward light output ratio	0
Standard tilt angle post-top	-
Standard tilt angle side entry	0°

### Operating and Electrical

Input Voltage	220-240 V
Input frequency	50 to 60 Hz
Inrush current	53 A
Inrush time	0.3 ms
Power factor (min.)	0.99

### Controls and Dimming

Dimmable	Yes
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### Mechanical and Housing

Housing material	Aluminium die-cast
Reflector material	-
Optic material	Polycarbonate
Optical cover/lens material	Glass
Fixation material	Stainless steel
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
Effective projected area	0.18 m <sup>2</sup>
Colour	Dark Grey
Dimensions (height x width x depth)	90 x 486 x 364 mm (3.5 x 19.1 x 14.3 in)

### Approval and Application

Ingress protection code	IP66 [ Dust penetration-protected, jet-proof]
Mech. impact protection code	IK09 [ 10 J]
Surge protection (common/differential)	Luminaire surge protection level up to 6 kV differential mode and 6 kV common mode

### Initial Performance (IEC Compliant)

Initial luminous flux (system flux)	14940 lm
Luminous flux tolerance	+/-7%
Initial LED luminaire efficacy	144 lm/W
Init. Corr. Colour Temperature	4000 K
Init. Colour rendering index	>70
Initial chromaticity	(0.3818, 0.3796) SDCM<3
Initial input power	104 W
Power consumption tolerance	+/-10%
Init. colour rendering index tolerance	+/-2

### Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 100,000 h	10 %
Lumen maintenance at median useful life* 100,000 h	L97

### Application Conditions

Ambient temperature range	-30 to +50 °C
Performance ambient temperature Tq	25 °C
Maximum dimming level	10%

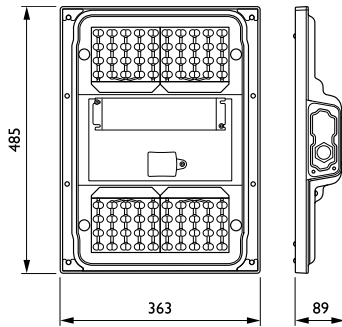
### Product Data

Full product code	871869948294700
Order product name	BGP235 LED180-4S/740 DSM11 D9 MIO-CIO MB
EAN/UPC – product	8718699482947
Order code	48294700
SAP numerator – quantity per pack	1
Numerator – packs per outer box	1
SAP material	912300024112
SAP net weight (piece)	7.000 kg



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### Dimensional drawing



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