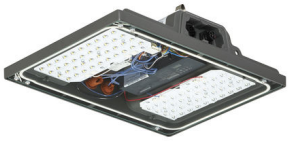
PHILIPS

Lighting



# TubePoint gen2

## BGP235 LED30-4S/740 DSM11 D9 MIO-CIO MBQ

TubePoint GEN2 Small, LED module 3000 lm, 740 neutral white, Power supply unit with DALI interface, Safety class I, Distribution symmetrical medium 11, Dark gray

Many tunnel authorities have outdated tunnel lighting installations that urgently need replacing, but have only a limited budget to achieve it. Philips 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 developed by Philips. 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 Philips TotalTunnel solution for complete tunnel lighting. A solution you can trust for versatile, high performance lighting in traffic tunnels.

### Product data

| General Information | |
|---|---|
| **Lamp family code** | LED30 [LED module 3000 lm] |
| **Light source replaceable** | Yes |
| **Number of gear units** | 1 unit |
| **Driver included** | Yes |
| **Light source engine type** | LED |
| **Service tag** | Yes |

| | |
|---|---|
| **Product family code** | BGP235 [TubePoint GEN2 Small] |
| **Lighting Technology** | LED |
| **Value ladder** | Specification |
| **CE mark** | Yes |
| **Warranty period** | 5 years |
| **Flammability mark** | For mounting on normally flammable surfaces |

# TubePoint gen2

| | |
|---|---|
| **ENEC mark** | ENEC mark |
| **EU RoHS compliant** | Yes |
| **Serviceability class** | Class A, luminaire is equipped with serviceable parts (when applicable): LED board, driver, control units, surge protection device, optics, front cover and mechanical parts |

## Light Technical

| | |
|---|---|
| **Upward light output ratio** | 0 |
| **Luminous Flux** | 2,520 lm |
| **Standard tilt angle posttop** | - |
| **Standard tilt angle side entry** | 0° |
| **Correlated Color Temperature (Nom)** | 4000 K |
| **Luminous Efficacy (rated) (Nom)** | 133 lm/W |
| **Color rendering index (CRI)** | >70 |
| **Number of light sources** | 20 |
| **Light source color** | 740 neutral white |
| **Optical cover type** | Flat glass |
| **Luminaire light beam spread** | 101° x 158° |
| **Optic type outdoor** | Distribution symmetrical medium 11 |

## Operating and Electrical

| | |
|---|---|
| **Input Voltage** | 220-240 V |
| **Line Frequency** | 50 to 60 Hz |
| **Inrush current** | 21 A |
| **Inrush time** | 0.225 ms |
| **Power Consumption** | 18.8 W |
| **Power Factor (Fraction)** | 0.95 |
| **Connection** | - |
| **Cable** | - |
| **Number of products on MCB of 16 A type B** | 26 |

## Temperature

| | |
|---|---|
| **Ambient temperature range** | -30 to +50 °C |

## Controls and Dimming

| | |
|---|---|
| **Dimmable** | Yes |
| **Driver/power unit/transformer** | Power supply unit with DALI interface |
| **Control interface** | DALI |
| **Constant light output** | No |

## Mechanical and Housing

| | |
|---|---|
| **Housing Material** | Aluminum die cast |
| **Reflector material** | - |
| **Optic material** | Polycarbonate |
| **Optical cover material** | Glass |
| **Fixation material** | Stainless steel |
| **Housing Color** | Dark gray |
| **Mounting device** | Mounting bracket quick-release, medium |
| **Optical cover shape** | Flat |
| **Optical cover finish** | Clear |
| **Overall length** | 363.5 mm |
| **Overall width** | 485.5 mm |
| **Overall height** | 89.5 mm |
| **Effective projected area** | 0.18 m² |
| **Dimensions (Height x Width x Depth)** | 90 x 486 x 364 mm |

## 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 until 6 kV differential mode and 6 kV common mode |
| **Sustainability rating** | - |
| **Protection class IEC** | Safety class I |

## Initial Performance (IEC Compliant)

| | |
|---|---|
| **Luminous flux tolerance** | +/-7% |
| **Initial chromaticity** | (0.3818, 0.3796) SDCM<3 |
| **Power consumption tolerance** | +/-10% |
| **Init. Color Rendering Index Tolerance** | +/-2 |

## Over Time Performance (IEC Compliant)

| | |
|---|---|
| **Driver failure rate at 5000 h** | 0.53 % |
| **Control gear failure rate at median useful life 100000 h** | 10 % |
| **Lumen maintenance at median useful life* 100000 h** | L98 |

## Application Conditions

| | |
|---|---|
| **Performance ambient temperature Tq** | 25 °C |
| **Maximum dim level** | 10% |

## Product Data

| | |
|---|---|
| **Order product name** | BGP235 LED30-4S/740 DSM11 D9 MIO-CIO MBQ |
| **Full product name** | BGP235 LED30-4S/740 DSM11 D9 MIO-CIO MBQ |
| **Full product code** | 871869948290900 |
| **Order code** | 912300024108 |
| **Material Nr. (12NC)** | 912300024108 |
| **Numerator - Quantity Per Pack** | 1 |
| **EAN/UPC - Product/Case** | 8718699482909 |
| **Numerator - Packs per outer box** | 1 |
| **EAN/UPC - Case** | 8718699482909 |

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## Dimensional drawing