# **PHILIPS** Lighting



# TubePoint Gen 2: versatile, high performance and long-lasting tunnel lighting

# TubePoint gen2

Many tunnel authorities have outdated tunnel lighting installations that urgently need replacing, but have only a limited budget to achieve it.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.

#### Benefits

- Versatile luminaire range suitable all types of traffic tunnels
- Economical LED solution for point source tunnel lighting schemes
- $\cdot$  High performance and efficient
- Quick and easy mounting

#### Features

- $\cdot$  Wide range of optics and lumen packages
- Mounting and connectivity options
- $\cdot$  Option of a remote driver
- $\cdot$  Compatible with tunnel controls from and third parties
- Service tag: QR-based identification for maintenance, installation and spare part information

#### Application

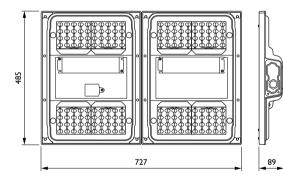
- $\cdot$  Tunnel
- Underpass

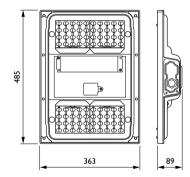
#### Versions



TubePoint GEN2-BGP236

#### Dimensional drawing





#### **Product details**



TubePoint\_GEN2-BGP235\_MB-DPP.TIF





TubePoint\_GEN2-BGP235\_MBQ-S-2DPP.TIF



TubePoint\_GEN2-BGP236-1DPP.TIF

TubePoint\_GEN2-

BGP235-1DPP.TIF



TubePoint\_GEN2-BGP235\_MBQ\_M-DPP.TIF



TubePoint\_GEN2-BGP235\_BA\_SO-8DPP.TIF



TubePoint\_GEN2-BGP235\_MBQ\_S-DPP.TIF



TubePoint\_GEN2-BGP235-2DPP.TIF

#### **Product details**



TubePoint\_GEN2-BGP235\_BA-DPP.TIF



TubePoint\_GEN2-BGP235\_MBQ\_L-DPP.TIF

TubePoint\_GEN2-

BGP236-2DPP.TIF



TubePoint\_GEN2-BGP235\_MBA-DPP.TIF



Product family leaflet, 2023, October 11

General Information	
Driver included	Yes
Light source replaceable	Yes
Service tag	Yes
Light Technical	
Luminaire light beam spread	101° x 158°
Light source color	740 neutral white
Correlated Color Temperature (Nom)	4000 K
Color rendering index (CRI)	70
Optic type outdoor	Distribution
	symmetrical
	medium 11
Upward light output ratio	0
Operating and Electrical	
Surge Protection (Common/	Surge protection
Differential)	level until 6 kV
	differential mode
	and 6 kV commor
	mode
	mode
	mode
Controls and Dimming	mode
Dimmable	Yes
Dimmable Maximum dim level	Yes
Dimmable Maximum dim level Mechanical and Housing	Yes 10%
Dimmable Maximum dim level Mechanical and Housing Optical cover type	Yes 10% Flat glass
Dimmable Maximum dim level Mechanical and Housing Optical cover type Housing Color	Yes 10% Flat glass Dark gray
Dimmable Maximum dim level Mechanical and Housing Optical cover type Housing Color Mech. impact protection code	Yes 10% Flat glass Dark gray IKO9
Dimmable Maximum dim level Mechanical and Housing Optical cover type Housing Color Mech. impact protection code Ingress protection code	Yes 10% Flat glass Dark gray IK09 IP66
Dimmable Maximum dim level Mechanical and Housing Optical cover type Housing Color Mech. impact protection code Ingress protection code Standard tilt angle side entry	Yes 10% Flat glass Dark gray IKO9
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Dimmable Maximum dim level Mechanical and Housing Optical cover type Housing Color Mech. impact protection code Ingress protection code Standard tilt angle side entry Standard tilt angle posttop Approval and Application CE mark	Yes 10% Flat glass Dark gray IK09 IP66 0° -
Dimmable Maximum dim level Mechanical and Housing Optical cover type Housing Color Mech. impact protection code Ingress protection code Standard tilt angle side entry Standard tilt angle posttop Approval and Application	Yes 10% Iat glass Dark gray IKO9 IP66 0° - Yes Yes For mounting on
Dimmable Maximum dim level Mechanical and Housing Optical cover type Housing Color Mech. impact protection code Ingress protection code Standard tilt angle side entry Standard tilt angle posttop Approval and Application CE mark	Yes 10% Flat glass Dark gray IK09 IP66 0° - Yes For mounting on normally
Dimmable Maximum dim level Mechanical and Housing Optical cover type Housing Color Mech. impact protection code Ingress protection code Standard tilt angle side entry Standard tilt angle posttop Approval and Application CE mark	Yes 10% Flat glass Dark gray IK09 IP66 0° - Yes For mounting on normally flammable
Dimmable Maximum dim level Mechanical and Housing Optical cover type Housing Color Mech. impact protection code Ingress protection code Standard tilt angle side entry Standard tilt angle posttop Approval and Application CE mark	Yes 10% Flat glass Dark gray IK09 IP66 0° - Yes For mounting on normally

#### **General Information**

Order Code	Full Product Name	Lamp family code	Number of gear units
48290900	BGP235 LED30-4S/740 DSM11 D9 MIO-CIO MBQ	LED30	1 unit
48291600	BGP235 LED50-4S/740 DSM11 D9 MIO-CIO MBQ	LED50	1 unit
48292300	BGP235 LED90-4S/740 DSM11 D9 MIO-CIO MBQ	LED90	1 unit
48293000	BGP235 LED120-4S/740 DSM11 D9 MIO-CIO MB	LED120	1 unit
48294700	BGP235 LED180-4S/740 DSM11 D9 MIO-CIO MB	LED180	1 unit
48296100	BGP236 LED360-4S/740 DSM11 D9 MIO-CIO MB	LED360	2 units

#### Light Technical

			Number of
Order Code	Full Product Name	Luminous Flux	light sources
48290900	BGP235 LED30-4S/740 DSM11 D9 MIO-	2,520 lm	20
	CIO MBQ		
48291600	BGP235 LED50-4S/740 DSM11 D9 MIO-	4,200 lm	20
	CIO MBQ		
48292300	BGP235 LED90-4S/740 DSM11 D9 MIO-	7,470 lm	28
	CIO MBQ		

			Number of
Order Code	Full Product Name	Luminous Flux	light sources
48293000	BGP235 LED120-4S/740 DSM11 D9 MIO-	9,840 lm	40
	CIO MB		
48294700	BGP235 LED180-4S/740 DSM11 D9 MIO-	14,940 lm	56
	CIO MB		
48296100	BGP236 LED360-4S/740 DSM11 D9 MIO-	29,880 lm	112
	CIO MB		

#### **Operating and Electrical**

Order Code	Full Product Name	Power Consumption
48290900	BGP235 LED30-4S/740 DSM11 D9 MIO-CIO MBQ	18.8 W
48291600	BGP235 LED50-4S/740 DSM11 D9 MIO-CIO MBQ	31.5 W
48292300	BGP235 LED90-4S/740 DSM11 D9 MIO-CIO MBQ	53 W

Order Code	Full Product Name	Power Consumption
48293000	BGP235 LED120-4S/740 DSM11 D9 MIO-CIO MB	73 W
48294700	BGP235 LED180-4S/740 DSM11 D9 MIO-CIO MB	104 W
48296100	BGP236 LED360-4S/740 DSM11 D9 MIO-CIO MB	210 W

#### Over Time Performance (IEC Compliant)

		Driver failure rate at
Order Code	Full Product Name	5000 h
48290900	BGP235 LED30-4S/740 DSM11 D9 MIO-CIO MBQ	0.53 %
48291600	BGP235 LED50-4S/740 DSM11 D9 MIO-CIO MBQ	0.5 %
48292300	BGP235 LED90-4S/740 DSM11 D9 MIO-CIO MBQ	0.5 %

		Driver failure rate at
Order Code	Full Product Name	5000 h
48293000	BGP235 LED120-4S/740 DSM11 D9 MIO-CIO MB	0.5 %
48294700	BGP235 LED180-4S/740 DSM11 D9 MIO-CIO MB	0.5 %
48296100	BGP236 LED360-4S/740 DSM11 D9 MIO-CIO MB	0.5 %

#### Product Data

Order Code	Full Product Name	Product family code
48290900	BGP235 LED30-4S/740 DSM11 D9 MIO-CIO MBQ	BGP235
48291600	BGP235 LED50-4S/740 DSM11 D9 MIO-CIO MBQ	BGP235
48292300	BGP235 LED90-4S/740 DSM11 D9 MIO-CIO MBQ	BGP235

Order Code	Full Product Name	Product family code
48293000	BGP235 LED120-4S/740 DSM11 D9 MIO-CIO MB	BGP235
48294700	BGP235 LED180-4S/740 DSM11 D9 MIO-CIO MB	BGP235
48296100	BGP236 LED360-4S/740 DSM11 D9 MIO-CIO MB	BGP236



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