TubePoint

BGP231 LED90/840 PSD II DTS DGR MSP D9

TubePoint Performer Mini, LED module 9000 lm, 840 neutral white, Power supply unit with DALI interface, Safety class II, Distribution tunnel symmetrical, Dark gray, Marine salt protected coating, Mains outlet socket with DALI

Many tunnel authorities have an outdated tunnel lighting installation that urgently needs to be replaced, but have only limited budget available.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 fulfill their requirements. TubePoint 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 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 of the optics means 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 is part of Philips' comprehensive solution for tunnel lighting.

Product data

General Information	
Lamp family code	LED90 [LED module 9000 lm]
Light source replaceable	Yes
Number of gear units	1 unit
Gear	–
Driver included	Yes
Remarks	*-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen

	maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value.
Light source engine type	LED
Product family code	BGP231 [TubePoint Performer Mini]
Lighting Technology	LED
CE mark	Yes
Warranty period	2 years
Flammability mark	For mounting on normally flammable surfaces

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ENEC mark	ENEC mark		Housing Color	Dark gray
Glow-wire test	–		Mounting device	–
EU RoHS compliant	Yes		Optical cover shape	Flat
			Optical cover finish	Clear
Light Technical			Overall length	344 mm
Upward light output ratio	0		Overall width	321 mm
Luminous Flux	9,000 lm		Overall height	77 mm
Standard tilt angle posttop	0°		Effective projected area	0.024 m²
Standard tilt angle side entry	0°		Dimensions (Height x Width x Depth)	77 x 321 x 344 mm
Correlated Color Temperature (Nom)	4000 K			
Luminous Efficacy (rated) (Nom)	101 lm/W		**Approval and Application**	
Color rendering index (CRI)	>80		Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Number of light sources	72		Mech. impact protection code	IK08 [5 J vandal-protected]
Light source color	840 neutral white		Surge Protection (Common/Differential)	Luminaire surge protection level until 10 kV
Optical cover type	Flat glass			differential mode and 10 kV common mode
Luminaire light beam spread	148° x 148°		Protection class IEC	Safety class II
Optic type outdoor	Distribution tunnel symmetrical			
			Initial Performance (IEC Compliant)	
Operating and Electrical			Luminous flux tolerance	+/-5%
Input Voltage	220 to 240 V		Initial chromaticity	(0.433, 0.403) SDCM <3
Line Frequency	50 to 60 Hz		Power consumption tolerance	+/-10%
Inrush current	10 A		Init. Color Rendering Index Tolerance	+/-2
Inrush time	130 ms			
Power Consumption	73 W		**Over Time Performance (IEC Compliant)**	
Power Factor (Fraction)	0.9		Control gear failure rate at median useful life 100000 h	10 %
Connection	Mains outlet socket with DALI			
Cable	–		Lumen maintenance at median useful life* 100000 h	L80
Number of products on MCB of 16 A type B	11			
			Application Conditions	
Temperature			Performance ambient temperature Tq	25 °C
Ambient temperature range	–30 to +35 °C		Maximum dim level	10%
Controls and Dimming			**Product Data**	
Dimmable	Yes		Order product name	BGP231 LED90/840 PSD II DTS DGR MSP D9
Driver/power unit/transformer	Power supply unit with DALI interface		Full product name	BGP231 LED90/840 PSD II DTS DGR MSP D9
Control interface	DALI		Full product code	871794321903200
Constant light output	No		Order code	912300023431
			Material Nr. (12NC)	912300023431
Mechanical and Housing			Numerator – Quantity Per Pack	1
Housing Material	Aluminum		EAN/UPC – Product/Case	8717943219032
Reflector material	–		Numerator – Packs per outer box	1
Optic material	Polycarbonate		EAN/UPC – Case	8717943219032
Optical cover material	Glass			
Fixation material	Stainless steel			

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Dimensional drawing

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2023, October 9 – data subject to change