



# TunLite LED GEN2

## BGP287 LED380/740 DM12 ALU D9 SRG C1KC5

TunLite LED GEN2, Tunnel light, 230 W, 33060 lm, 4000 K, CRI70, DALI, Distribution medium 12, Safety class I, IP66, SRG10-10

The lighting system must be TunLite LED Gen2 or, alternatively, it must be equal to the following criteria: The product family range should offer a wide range of lumen outputs, by means of minimum 3 dedicated housing sizes. Serviceability of the luminaire should be such that drivers and LEDs are serviceable from below when mounted in the tunnel. Luminaires should have options for wall and cable tray mounting. Electrical safety class I. A choice of symmetrical and asymmetrical, narrow, wide and extra wide optics and counter-beam optics must be available, color temperature 4,000K. Minimal lamp efficacy of 160 lm/W. The luminaires must be ingress protected to IP66 and impact protected to IK08. The lifetime should be at least 100,000 hours @L95. The luminaires must have a QR-based identification system that makes each luminaire uniquely identifiable, thereby enabling installation, maintenance, and spare part information to be easily and accurately referenced. The luminaires must have control options for DALI 2.0 to allow optimal integration in tunnel control and monitoring systems. The lighting system must feature ENEC-certified LED-based luminaires. The luminaire has a warranty period of 5 years.

### Product data

General Information		Service tag	Yes
Lamp family code	LED380 [LED module 38000 lm]	Lighting Technology	LED
Light source replaceable	Yes	Serviceability class	Class A, luminaire is equipped with serviceable parts (when applicable): LED board, driver, control units, surge protection
Number of gear units	2 units		
Driver included	Yes		
Light source engine type	LED		

## TunLite LED GEN2

	device, optics, front cover and mechanical parts
Warranty period	5 years
Sustainability rating	Unclassified

### Light Technical

Upward light output ratio	0
Luminous Flux	33,060 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	147 lm/W
Color rendering index (CRI)	70
Light source color	740 neutral white
Luminaire light beam spread	88° x 157°
Optic type outdoor	Distribution medium 12
Effective projected area	0.26 m <sup>2</sup>

### Sustainability Data

Product non-virgin material ratio	10.3 %
GWP total B6 (kg CO2eq) Declared Unit	Please calculate using your local energy mix value: Power Declared Unit (kW) * Service life (hrs) Declared Unit * Energy mix (kg CO2eq / kwh)
GWP total B6 (kg CO2eq) Functional Unit	Please calculate using your local energy mix value: Power Declared Unit (kW) * 1000 (lm) / lumen output (lm) Declared Unit * 35000 (hrs) * Energy mix (kg CO2 eq / kwh)

### Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	53 A
Inrush time	0.3 ms
Power Consumption	230 W
Power Factor (Fraction)	0.85
Connection	External connector
Cable	Cable 1.5 m with push-in connector 5-pole
Number of products on MCB of 16 A type B	4
Protection class IEC	Safety class I
Surge Protection (Common/Differential)	Surge protection level until 10 kV differential mode and 10 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
Maximum dim level	10%

### Mechanical and Housing

Housing Material	Aluminum die cast
------------------	-------------------

Reflector material	Acrylate
Optic material	Polycarbonate
Optical cover material	Glass
Fixation material	Steel
Housing Color	Aluminum
Mounting device	Mounting bracket quick-release, medium
Optical cover shape	Flat
Optical cover finish	Clear
Overall length	540 mm
Overall width	560 mm
Overall height	70 mm
Dimensions (Height x Width x Depth)	70 x 560 x 540 mm
Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK09 [10 J]
Standard tilt angle posttop	0°
Standard tilt angle side entry	0°
Optical cover type	Flat glass
Net Weight (Piece)	17.000 kg

### Approval and Application

Flammability mark	For mounting on easily flammable surfaces
CE mark	Yes
ENEC mark	ENEC plus mark
EU RoHS compliant	Yes
Performance ambient temperature Tq	25 °C
Ambient temperature range	-40 to +50 °C

### Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-7%
Initial chromaticity	(0.38, 0.38) SDCM <5
Power consumption tolerance	+/-10%
Init. Color Rendering Index Tolerance	+/-2
Standard Deviation of Colour Matching (McAdam ellipse)	SDCM≤5

### Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 75000 h	7.6 %
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h	L96

### Product Data

Order product name	BGP287 LED380/740 DM12 ALU D9 SRG C1KC5
Full product name	BGP287 LED380/740 DM12 ALU D9 SRG C1KC5
Full product code	872016903872100
Order code	03872100
Material Nr. (12NC)	912300058453
Numerator - Quantity Per Pack	1

## TunLite LED GEN2

EAN/UPC - Product/Case	8720169038721
Numerator - Packs per outer box	1
EAN/UPC - Case	8720169038721

Product family code	BGP287 [TUNLITE LED GEN2 XLARGE]
---------------------	----------------------------------

### Dimensional drawing

