



FlowStar – LED tunnel entrance and point-source interior lighting

FlowStar

Tunnel operators are looking for an LED solution for both interior and entrance lighting that delivers cost, safety and availability benefits over the full lifetime of the product. FlowStar's stainless-steel modular build and dedicated LED design provide a long-lasting and efficient LED alternative to conventional HPS lighting. FlowStar can also be combined with our controls and services for the highest levels of performance.

Benefits

- High lumen output; dedicated tunnel luminaire that can replace HPS entrance lighting
- Long-lasting, highly efficient lighting solution for the whole tunnel
- Easy to install and maintain

Features

- A lifetime solution for both tunnel entrance and interior lighting in combination with service packages
- Designed for maintenance (modular build and glass cover)
- Can be integrated with controls (e.g. TunneLogic) and services for best system performance
- True point-for-point LED alternative to HPS up to 400 W
- For entrance lighting, it can be combined with the FlowLine linear interior luminaire
- Can compete on Total Cost of Ownership with current HPS solutions within the TotalTunnel approach

Application

- Traffic tunnels and underpasses

Versions



OPPR_BGB300i_0005-Product photo



OPPR_BGB300i_0003-Product photo



OPPR_BGB300i_0001-Product photo

Dimensional drawing

General Information	
CE mark	Yes
Driver included	Yes
Flammability mark	For mounting on normally flammable surfaces
Light source replaceable	No
Light Technical	
Luminaire light beam spread	148° x 148°
Light source color	740 neutral white
Correlated Color Temperature (Nom)	4000 K
Optical cover type	Flat glass
Color rendering index (CRI)	>70
Optic type outdoor	Distribution symmetrical medium 11
Standard tilt angle side entry	0°
Standard tilt angle posttop	0°
Upward light output ratio	0
Controls and Dimming	
Dimmable	Yes
Mechanical and Housing	
Housing Color	Steel
Approval and Application	
Mech. impact protection code	IK08
Ingress protection code	IP66
Surge Protection (Common/Differential)	Philips standard surge protection level
Application Conditions	
Maximum dim level	10%

General Information

Order Code	Full Product Name	Lamp family code	Number of gear units	Product family code
23920300	BGB302 LED250-4S/740 PSD DSM11 D9 MDD	LED250	1 unit	BGB302
23921000	BGB302 LED110-4S/740 PSD DSM11 D9 MDD	LED110	1 unit	BGB302
23919700	BGB301 LED420-4S/740 PSD DSM11 D9 MDD	LED420	2 units	BGB301
23918000	BGB300 LED700-4S/740 PSD BV DSM11 D9 MDD	LED700	3 units	BGB300

Light Technical

Order Code	Full Product Name	Luminous Flux
23920300	BGB302 LED250-4S/740 PSD DSM11 D9 MDD	19,920 lm
23921000	BGB302 LED110-4S/740 PSD DSM11 D9 MDD	8,925 lm

Order Code	Full Product Name	Luminous Flux
23919700	BGB301 LED420-4S/740 PSD DSM11 D9 MDD	33,200 lm
23918000	BGB300 LED700-4S/740 PSD BV DSM11 D9 MDD	54,780 lm

Operating and Electrical

Order Code	Full Product Name	Power Consumption
23920300	BGB302 LED250-4S/740 PSD DSM11 D9 MDD	150 W
23921000	BGB302 LED110-4S/740 PSD DSM11 D9 MDD	67 W

Order Code	Full Product Name	Power Consumption
23919700	BGB301 LED420-4S/740 PSD DSM11 D9 MDD	250 W
23918000	BGB300 LED700-4S/740 PSD BV DSM11 D9 MDD	415 W

