



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 |

