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
- Equipped with Service tag, a QR-based identification system that makes each luminaire uniquely identifiable and provides maintenance, installation and spare part information

FlowStar

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 pointsource entrance and interior lighting
· 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

FlowStar

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
912300060085	BGB302 LED250-4S/740 PSD DSM11 D9 MDD	LED250	1 unit	BGB302
912300060086	BGB302 LED110-4S/740 PSD DSM11 D9 MDD	LED110	1 unit	BGB302
912300060084	BGB301 LED420-4S/740 PSD DSM11 D9 MDD	LED420	2 units	BGB301
912300060083	BGB300 LED700-4S/740 PSD BV DSM11 D9 MDD	LED700	3 units	BGB300

Light Technical

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Order Code	Full Product Name	Luminous Flux
912300060085	BGB302 LED250-4S/740 PSD DSM11 D9 MDD	19,920 lm
912300060086	BGB302 LED110-4S/740 PSD DSM11 D9 MDD	8,925 lm

Order Code	Full Product Name	Luminous Flux
912300060084	BGB301 LED420-4S/740 PSD DSM11 D9 MDD	33,200 lm
912300060083	BGB300 LED700-4S/740 PSD BV DSM11 D9 MDD	54,780 lm

Operating and Electrical

Order Code	Full Product Name	Power Consumption
912300060085	BGB302 LED250-4S/740 PSD DSM11 D9 MDD	150 W
912300060086	BGB302 LED110-4S/740 PSD DSM11 D9 MDD	67 W
912300060084	BGB301 LED420-4S/740 PSD DSM11 D9 MDD	250 W

Order Code	Full Product Name	Power Consumption
912300060083	BGB300 LED700-4S/740 PSD BV DSM11 D9 MDD	415 W

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2023, December 6 – data subject to change