2015, January 29
data subject to change

FlowStar – LED tunnel entrance and point-source interior lighting

FlowStar Medium

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

PHILIPS

Specifications

- Type: BGB301 (ENTRANCE version)
  BGB311 (INTERIOR version)
- Light source: Integral LED-module
- Power: BGB301: 79 up to 265 W
  BGB311: 68 up to 225 W
- Luminous flux: BGB301: 9,200 up to 30,000 lm
  BGB311: 8,200 up to 27,000 lm
- Luminaire efficacy: > 100 lm/W
- Correlated Color Temperature: 4000 K (neutral white, NW)
  5700 K (cool white, CW)
- Color Rendering Index: > 70
- Maintenance of lumen output - L80F10: > 100,000 hours at 25 °C
- Operating temperature range: -25 to +40 °C
- Driver: Separate (non-self ballasted LED-module)
- Mains voltage: 220-240 V / 50-60 Hz
- Dimming: DALI or SDU dimmable
- Optic: Tunnel asymmetrical (DTA)
  Tunnel counter-beam (DTCB)
  Tunnel symmetrical (DTS)
  Tunnel asymmetrical wide beam (DTA-WB)
  Tunnel symmetrical wide beam (DTS-WB)
- Optical cover: Tempered glass, hard
- Material: Housing: stainless steel
  Heatsink: aluminum
  Cover: glass, thermally toughened
- Color: Not painted stainless steel and anodized aluminum
- Connection: Plugs connections or flying lead
- Maintenance: Long lasting sealed units easy and fast to exchange
- Installation: Ceiling mounted
  6 flange mounting clamps included for fast installation and allignment in the horizontal plane
  Option for plugs connection for plug and play installation
  Recommended mounting height: > 4 m
- Cable gland: Flying lead versions: M20
  Plug and play version: 2 receptacles for DALI (in and out) and 1 receptacle for power in
- Remarks: Separate FlowStar LED units are available (BGB301 and BGB311 with dedicated designations)
  Separate FlowStar driver units are available (EGB301 and EGB311 with dedicated designations)
  Separate mounting clamp sets (set of 4 and set of 6 pcs) are available
  For the versions equiped with connection sockets, cables with matching plugs are available

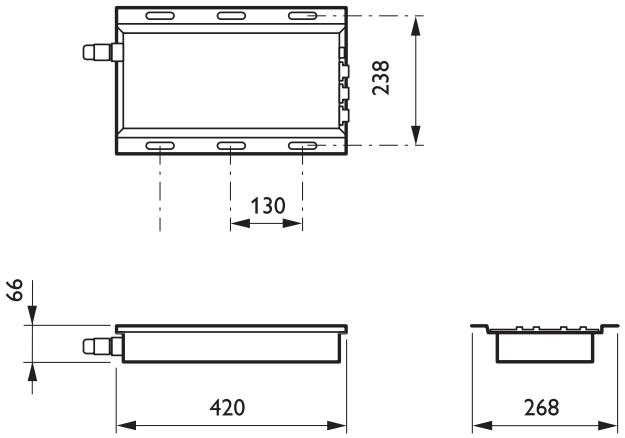
Related products

FlowStar medium BGB301/BGB311 tunnel and underpass luminaire

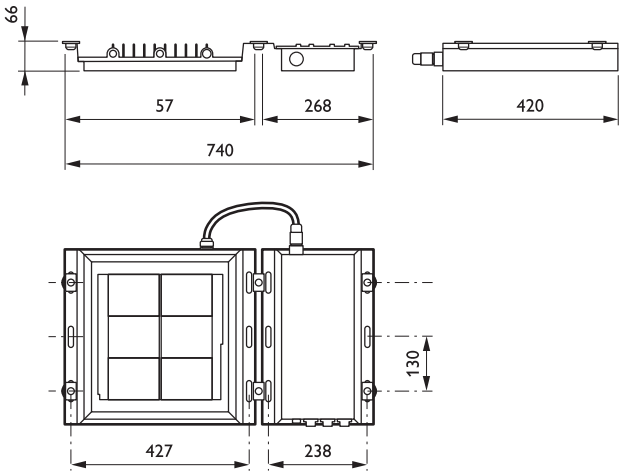
FlowStar medium BGB301/BGB311 LED unit

FlowStar EGB301/EGB311 driver unit

Dimensional drawing



EGB301 30K PSD SH D9



BGB301 30K/NW PSD SH DTS D9

Product details

Plug & play connectivity (MDD): one mains and two separate DALI plug connections on the driver unit

Plug & play connectivity (MDD): mains and DALI cables plugged in

LED unit with flying lead and plug

Galvanic isolation

Mounting clamp: single-sided mounting

General information

Order code	Product family code	Lamp family code	Light source color	Driver included	Mech. impact protection code	Optic type	Optical cover/lens type	Dimmable	CE mark	ENEC mark
912300022658	BGB301	ECO	NW	false	IK08	DTS	GT	Yes	CE	No
912300022659	BGB301	ECO	NW	false	IK08	DTS	GT	Yes	CE	No
912300022660	BGB301	ECO	NW	false	IK08	DTS	GT	Yes	CE	No
912300022809	BGB311	ECO	NW	false	IK08	DTS	GT	Yes	CE	No
912300022810	BGB311	ECO	NW	false	IK08	DTS	GT	Yes	CE	No
912300022811	BGB311	ECO	NW	false	IK08	DTS	GT	Yes	CE	No
912300022822	BGB301	-	NW	false	IK08	DTS	GT	No	CE	No
912300022823	BGB301	-	NW	false	IK08	DTS	GT	No	CE	No
912300022824	BGB301	-	NW	false	IK08	DTS	GT	No	CE	No
912300022825	BGB311	-	NW	false	IK08	DTS	GT	No	CE	No
912300022826	BGB311	-	NW	false	IK08	DTS	GT	No	CE	No
912300022827	BGB311	-	NW	false	IK08	DTS	GT	No	CE	No
912300022840	EGB301	-	-	-	IK08	-	-	-	CE	-
912300022841	EGB301	-	-	-	IK08	-	-	-	CE	-
912300022842	EGB301	-	-	-	IK08	-	-	-	CE	-
912300022843	EGB311	-	-	-	IK08	-	-	-	CE	-
912300022844	EGB311	-	-	-	IK08	-	-	-	CE	-
912300022845	EGB311	-	-	-	IK08	-	-	-	CE	-

Light technical

Order code	Product family code	Standard tilt angle posttop	Standard tilt angle side entry	Light source flux
912300022658	BGB301	0	0	30K
912300022659	BGB301	0	0	18K
912300022660	BGB301	0	0	9K
912300022809	BGB311	0	0	27K
912300022810	BGB311	0	0	16K
912300022811	BGB311	0	0	8K
912300022822	BGB301	0	0	30K
912300022823	BGB301	0	0	18K
912300022824	BGB301	0	0	9K
912300022825	BGB311	0	0	27K

Order code	Product family code	Standard tilt angle posttop	Standard tilt angle side entry	Light source flux
912300022826	BGB311	0	0	16K
912300022827	BGB311	0	0	8K
912300022840	EGB301	-	-	30K
912300022841	EGB301	-	-	18K
912300022842	EGB301	-	-	9K
912300022843	EGB311	-	-	27K
912300022844	EGB311	-	-	16K
912300022845	EGB311	-	-	8K

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