



FlowStar – LED tunnel entrance and point-source interior lighting

FlowStar Small

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

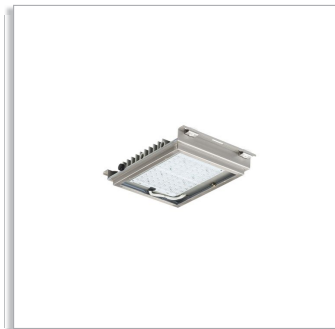
- Traffic tunnels and underpasses

PHILIPS

Specifications

• Type	BGB302 (ENTRANCE version) BGB312 (INTERIOR version)	• Material	Housing: stainless steel Heatsink: aluminum Cover: glass, thermally toughened
• Light source	Integral LED-module	• Color	Not painted stainless steel and anodized aluminum
• Power	BGB302: 79 up to 155 W BGB312: 68 up to 132 W	• Connection	Plugs connections or flying lead
• Luminous flux	BGB302: 9,200 up to 18,500 lm BGB312: 8,200 up to 16,500 lm	• Maintenance	Long lasting sealed units easy and fast to exchange
• Luminaire efficacy	> 100 lm/W	• Installation	Ceiling mounted 6 flange mounting clamps included for fast installation and alignment in the horizontal plane Option for plugs connection for plug and play installation Recommended mounting height: > 4 m
• Correlated Color Temperature	4000 K (neutral white, NW) 5700 K (cool white, CW)	• Cable gland	Flying lead versions: M20 Plug and play version: 2 receptacles for DALI (in and out) and 1 recep- tacle for power in
• Color Rendering Index	> 70	• Remarks	Separate FlowStar LED units are avail- able (BGB302 and BGB312 with dedi- cated designations) Separate FlowStar driver units are available (EGB302 and EGB312 with dedicated designations) Separate mounting clamp sets (set of 4 and set of 6 pcs) are available For the versions equipped with connection sockets, cables with matching plugs are available
• Maintenance of lumen output - L80F10	> 100,000 hours at 25 °C		
• Operating tempera- ture 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		

Related products

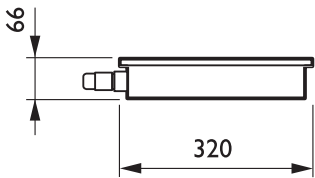
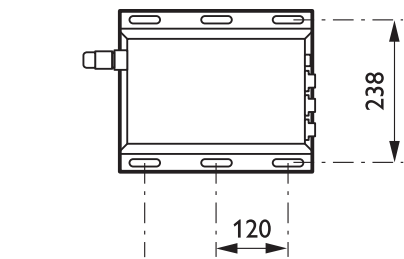
FlowStar small BGB302/BGB312 tunnel
and underpass luminaire

FlowStar small BGB302/BGB312 LED unit

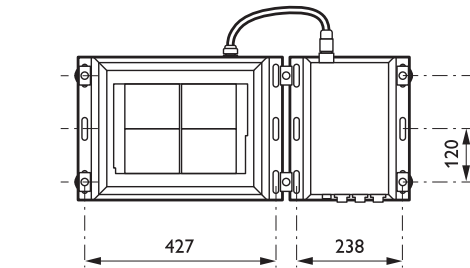
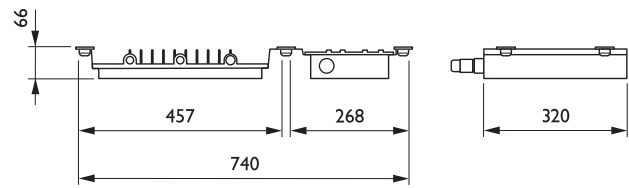
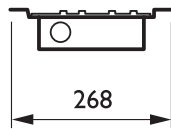


FlowStar EGB302/EGB312 driver unit

Dimensional drawing



EGB302 18K PSD SH D9



BGB302 18K/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
912300022666	BGB302	ECO	NW	false	IK08	DTS	GT	Yes	CE	No
912300022667	BGB302	ECO	NW	false	IK08	DTS	GT	Yes	CE	No
912300022812	BGB312	ECO	NW	false	IK08	DTS	GT	Yes	CE	No
912300022813	BGB312	ECO	NW	false	IK08	DTS	GT	Yes	CE	No
912300022828	BGB302	-	NW	false	IK08	DTS	GT	No	CE	No
912300022829	BGB302	-	NW	false	IK08	DTS	GT	No	CE	No
912300022830	BGB312	-	NW	false	IK08	DTS	GT	No	CE	No
912300022831	BGB312	-	NW	false	IK08	DTS	GT	No	CE	No
912300022846	EGB302	-	-	-	IK08	-	-	-	CE	-
912300022847	EGB302	-	-	-	IK08	-	-	-	CE	-
912300022848	EGB312	-	-	-	IK08	-	-	-	CE	-
912300022849	EGB312	-	-	-	IK08	-	-	-	CE	-

Light technical

Order code	Product family code	Standard tilt angle posttop	Standard tilt angle side entry	Light source flux
912300022666	BGB302	0	0	18K
912300022667	BGB302	0	0	9K
912300022812	BGB312	0	0	16K
912300022813	BGB312	0	0	8K
912300022828	BGB302	0	0	18K
912300022829	BGB302	0	0	9K
912300022830	BGB312	0	0	16K

Order code	Product family code	Standard tilt angle posttop	Standard tilt angle side entry	Light source flux
912300022831	BGB312	0	0	8K
912300022846	EGB302	-	-	18K
912300022847	EGB302	-	-	9K
912300022848	EGB312	-	-	16K
912300022849	EGB312	-	-	8K



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data subject to change