



FlowMax – Robust, high-performance tunnel lighting built for durability, efficiency, and reliable visibility in every tunnel and underpass

FlowMax – Tunnel Lighting

The Philips FlowMax (BWP65X series) is a future-ready tunnel lighting solution designed to meet the evolving needs of infrastructure projects with a focus on safety, performance, and reliability. Available in 60W, 120W, 180W, and 240W variants, FlowMax delivers powerful illumination with high energy efficiency and is well-suited for both new installations and retrofits across a variety of tunnel and underpass applications. Its versatile optics—available in symmetric and asymmetric variants—enable optimized light distribution for different tunnel geometries, ensuring enhanced visibility and driver safety. Built with robust housing and IP66 protection, FlowMax performs reliably even in harsh environments with dust, moisture, and vibrations. For installers, the lightweight design and flexible mounting options ensure quick and hassle-free installation. For specifiers and consultants, FlowMax offers the assurance of compliance with modern tunnel lighting standards, a range of wattages for tailored lighting layouts, and support for intelligent lighting control compatibility. For end-users, it brings reduced energy consumption, lower maintenance costs, and improved operational safety through uniform lighting and

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glare control. With a focus on long-term performance, operational efficiency, and ease of integration, Philips FlowMax represents a smart investment in modern tunnel infrastructure.

Benefits

- High energy savings with 145 lm/W efficacy – Delivers more light with less power, helping reduce electricity bills and enabling sustainable tunnel operations.
- Reliable performance in harsh conditions – Built to resist dust, moisture, and vibrations, ensuring long-term durability and minimal disruptions.
- Enhanced visibility and road safety – Engineered optics improve light uniformity and reduce glare, supporting safer driving experiences in tunnels and underpasses.
- Lower maintenance and operating costs – Long service life and robust design lead to reduced maintenance efforts and lower total cost of ownership.
- Backed by Philips assurance – A dependable lighting solution from a globally trusted brand, known for innovation, quality, and reliable service support.

Features

- High efficacy up to 145 lm/W – Delivers excellent energy efficiency, helping reduce power consumption across long tunnel stretches.
- Available in 60W, 120W, 180W, and 240W variants – Ensures flexibility to match diverse tunnel lengths, heights, and lighting layouts.
- Symmetric and asymmetric optics – Offers application-specific beam distributions for uniform visibility and compliance with tunnel lighting norms.
- Rugged IP66 and IK10-rated design – Built to withstand dust, water, and high-impact environments, ideal for tunnels exposed to heavy-duty conditions.
- Smart lighting ready – Optional compatibility with intelligent lighting systems for energy optimization, remote control, and automation.

Application

- Tunnel
- Road and Street
- Highway flyover passages and service tunnels
- Metro rail tunnels and urban transit corridors

Versions



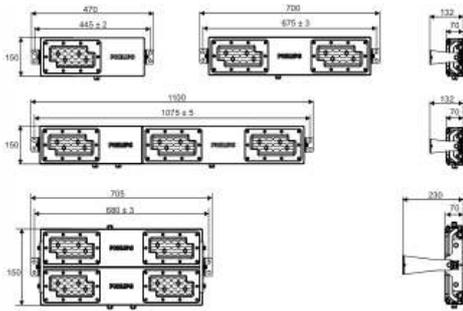
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Dimensional drawing



General Information

Driver included	Yes
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Light Technical

Luminaire light beam spread	90°
Color rendering index (CRI)	70
Luminous Efficacy (rated) (Nom)	145 lm/W
Optic type outdoor	Distribution tunnel symmetrical

Operating and Electrical

Surge Protection (Common/Differential)	Surge protection level until 10 kV
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Mechanical and Housing

Optical cover type	Polycarbonate
Housing Color	Grey
Mech. impact protection code	IK10
Ingress protection code	IP66

Approval and Application

Ambient temperature range	0 °C to 35 °C
Flammability mark	-

Light Technical

Order Code	Full Product Name	Light source color	Correlated Color Temperature (Nom)	Luminous Flux
919515818168	BWP654 LED348 CW TSK PSU SPD GR	Cool white	6500 K	34,800 lm
919515818169	BWP654 LED348 NW TSK PSU SPD GR	Neutral white	4000 K	34,800 lm
919515818164	BWP653 LED261 CW TSK PSU SPD GR	Cool white	6500 K	26,100 lm
919515818165	BWP653 LED261 NW TSK PSU SPD GR	Neutral white	4000 K	26,100 lm
919515818160	BWP652 LED174 CW TSK PSU SPD GR	Cool white	6500 K	17,400 lm
919515818161	BWP652 LED174 NW TSK PSU SPD GR	Neutral white	4000 K	17,400 lm
919515818156	BWP651 LED087 CW TSK PSU SPD GR	Cool white	6500 K	8,700 lm
919515818157	BWP651 LED087 NW TSK PSU SPD GR	Neutral white	4000 K	8,700 lm

Operating and Electrical

Order Code	Full Product Name	Power Consumption
919515818168	BWP654 LED348 CW TSK PSU SPD GR	240 W
919515818169	BWP654 LED348 NW TSK PSU SPD GR	240 W
919515818164	BWP653 LED261 CW TSK PSU SPD GR	180 W
919515818165	BWP653 LED261 NW TSK PSU SPD GR	180 W

Order Code	Full Product Name	Power Consumption
919515818160	BWP652 LED174 CW TSK PSU SPD GR	120 W
919515818161	BWP652 LED174 NW TSK PSU SPD GR	120 W
919515818156	BWP651 LED087 CW TSK PSU SPD GR	60 W
919515818157	BWP651 LED087 NW TSK PSU SPD GR	60 W

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