

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.

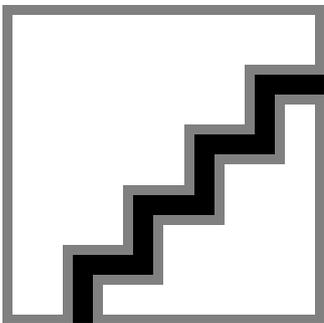
Features

- 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.

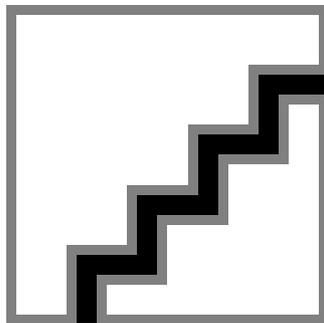
Application

- 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 |
| 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 |
| 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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