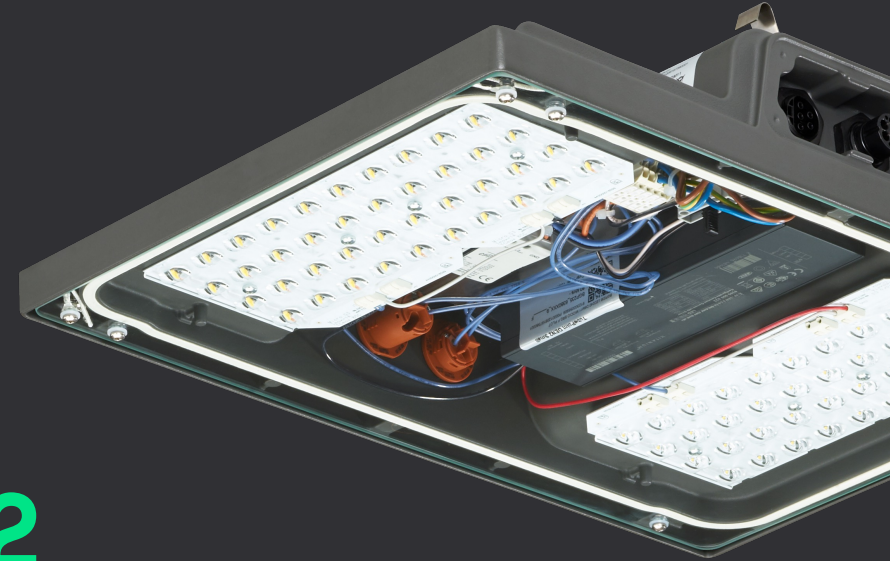


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# TubePoint gen2

Upgraded, modular  
LED tunnel lighting

# Contents

1. Meet TubePoint gen2
2. Product highlights
3. Control options
4. Service tag
5. LEDgine
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# Meet TubePoint gen2



**Outstanding  
light quality**



**High level  
of flexibility**



**Ease of  
installation**



**Efficiency and  
performance**



**Improved  
performance  
using controls**



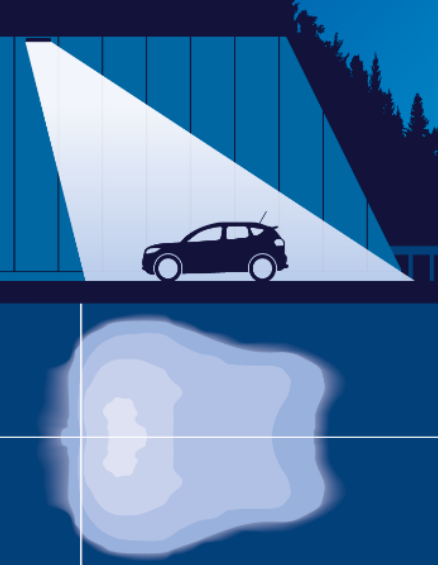


# Wide range of optics

- Suitable for entrance and interior point source lighting
- Complete and modular range
- Universal design
- Lumen packages vary from 3,000 lm to > 100,000 lm
- Complete range of optics to cover different tunnel applications
- Use fewer luminaries and yet increase safety and comfort and decrease glare

# Light distributions

Counterbeam



**Counterbeam:**  
 Counterbeam entrance lighting  
 Typical 2- to 3-lane tunnel + central configuration or 3-lane tunnels + 2 rows

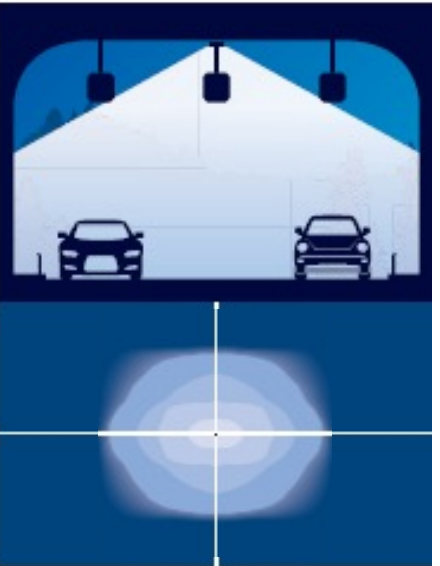
Symmetrical standard



**Symmetrical:**  
 Entrance and interior lighting

- Typical 2-lane tunnel / central configuration
- Typical 1- to 2-lane tunnel / central configuration
- Typical 2- to 3-lane tunnel / central configuration

Symmetrical wide



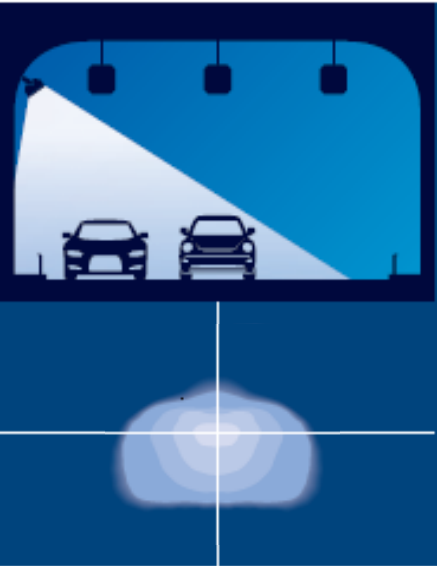
Asymmetrical standard



**Asymmetrical:**  
 Entrance and interior lighting

- Typical 2-lane tunnel / cornice configuration and middle of lane
- Typical 1- to 2-lane tunnel / cornice configuration and middle lane
- Typical 2- to 3-lane tunnel / cornice configuration

Asymmetrical wide



Additional options are available for high-efficient glass cover, white mask inserts and louvres.

# High level of flexibility and ease of installation

Options included:

- Mains socket
  - Mains socket with DALI
  - Mains socket and DALI sockets IN/OUT
  - Flying lead
  - Flying lead and customized plug
  - Through-wiring: Mains with DALI IN and Mains with DALI OUT
- 
- Modular
  - Quick mounting brackets
  - Plug-and-play solution
  - Flexible mounting options for cable tray, wall and ceiling mounting



# Efficiency and performance

- Upgraded to LEDgine optimized: best performance and ROI
- High lumen/W at system level
- Substantial energy savings can be made compared to conventional fluorescent lighting
- Sustainable design (serviceable and recyclable materials)

## Improved performance using controls

- Lighting controls translate the L20 (portal brightness) into a lighting stage for the whole tunnel
- The controls continuously adapt the lighting to the changing brightness outside the tunnel, so that the driver can easily adapt to the different light levels when entering, going through and exiting the tunnel
- They provide status and health information about the tunnel lighting installation



# Control options

## TunneLogic:

- Dedicated tunnel control and monitoring system designed specifically for LED technology
- Applications: Short underpasses, traffic road tunnels, long tunnels
- Components: Master control unit, local control units, photometer, data communications network, remote access unit



## BaseLogic:

- Retrofit LED dedicated tunnel intelligent control and monitoring system
- Applications: Short underpasses, traffic road tunnels, long tunnels
- Components: Enterprise server software, photometer, tunnel control unit, data transmitter, monitoring module



# Ideal for tunnel entrance, interior and exit lighting

## Tunnel entrance lighting

- Counter beam and symmetrical lighting distributions
- Low glare, high efficiency
- High lumen packages to match tunnel lighting level with outside light level
- Lit only during day

## Tunnel interior lighting

- Symmetrical light distributions
- Low glare, high efficiency
- Low lumen packages to ensure safe driving through tunnel
- Lit day and night

## Tunnel exit lighting

- Counter beam and symmetrical lighting distributions
- Low glare, high efficiency
- Medium to high lumen packages to adapt driver's eyes to outside light levels
- Lit only during day



# Part of TotalTunnel

TubePoint can also be integrated into the TotalTunnel program, holistic approach to tunnel lighting. This package of systems and services consists of three key building blocks:

- **Luminaires:** To support main tunnel lighting techniques
- **Dynamic control systems:** From basic control to elaborate monitoring, our dynamic control systems give you full control over the total lighting installation
- **Services:** From concept design and commissioning to lifecycle services, Signify can deliver a complete project and protect your investment



# Signify Service tag

- A unique QR code-based LED luminaire asset identification system
- Providing detailed information on specification and spare parts, simply by scanning the code on the packaging or luminaire with the Signify Service tag app.
- The system simplifies the installation and maintenance of lighting infrastructure by utilizing cloud technology.
- Service tag also plays a key role in the circular design of our lighting solutions, as it extends their service life and reduces maintenance efforts, ensuring efficient servicing and avoiding waste.



## Your benefits at a glance:



Easy installation  
and commissioning



Simplified  
maintenance



Asset  
management

Learn more at [signify.com/global/service-tag](https://www.signify.com/global/service-tag)

# Signify Service tag: Installation



## #1. Download the app

Download the Service tag app from the App store or Play store on your mobile device (iOS or Android).



## #2. Register the luminaire

Register the luminaire by simply scanning the QR code on the packaging or luminaire. The system automatically identifies the type of each luminaire.



## #3. Create a group QR code

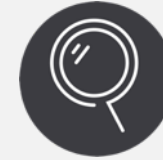
If you have multiple luminaires, it's possible to use the Service tag app to combine individual luminaires into a group. Each group will have its own unique group QR code.



## #4. Luminaire information

Scan the QR code on your luminaire for easy access to the installation manual.

# Maintenance



## #1. Spare parts identification

Use the Service tag app to view a luminaire's spare parts, which contains all necessary information for quick ordering.



## #2. Spare parts programming

Quickly program a spare driver using the Service tag app—without needing a faulty driver on hand. Scan the QR code of a luminaire with your device, put your mobile device on the spare driver, press “Program” and the spare driver receives the right settings for this specific luminaire.



Learn more at  
[signify.com/global/service-tag](https://signify.com/global/service-tag)

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# The right solution for outdoor applications – LEDgine

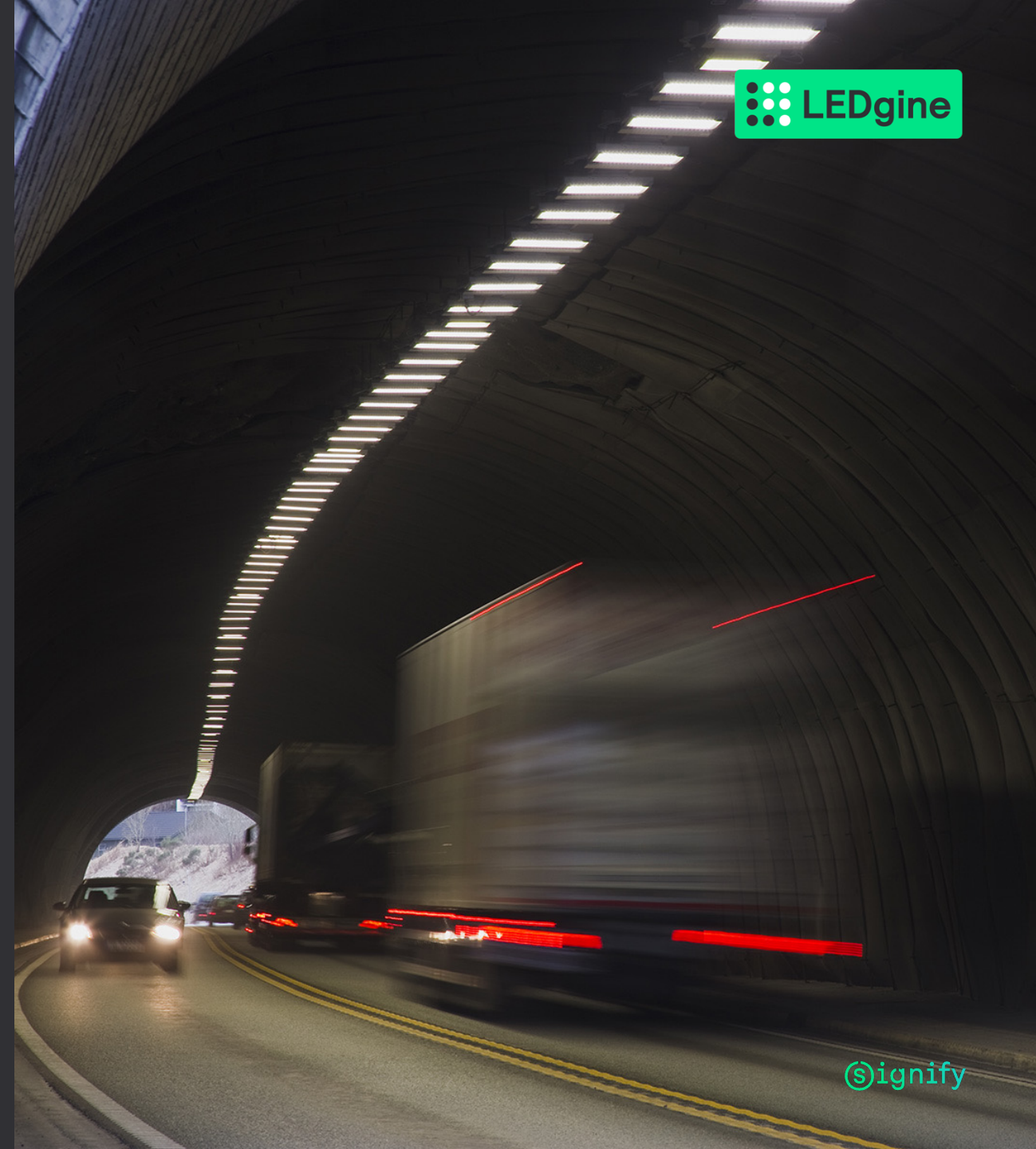
Our latest generation LEDgine optimized light engine offers the flexibility to further optimize your preferences as to luminaire efficacy and cost aspects.

The LEDgine optimized light engine covers a wide range of standard fluxes and a full range of standard optics is available to cover a wide range of applications.

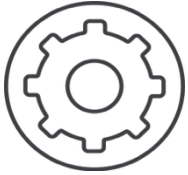
Moreover, where needed we can support you to tune and optimize your project solutions as to fluxes and light distributions further with our exclusive tools. The three pillars that characterize the light engines are standardized optics, standard engines and tailor-made solutions.

Luminaire efficacy optimization:

- LED count and glass options optimizing system lm/W supporting high energy savings
- High flux per area enabling use of compact lower cost luminaire sizes



# LEDgine

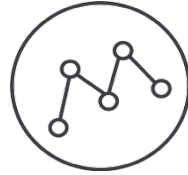


## Standardized optics

- A perfect application fit

**A wide range of light distributions ensure a perfect fit for many applications.**

The optics offer flexibility, enabling standardization over applications with a good performance across a wide range of geometries – as well as design parameters such as tilt and overhang. The optics comply with national and European road lighting standards.



## Standard engines

- High performance across portfolio

Using a standard engine across different luminaire ranges means you can optimally benefit from the latest LED upgrades without changing light distributions, so design continuity is assured. Standard flux packages are pre-defined across product ranges. Flux and thereby energy minimization is achieved by using best possible lumen maintenance (up to L98 or CLO solutions). The LEDgine optimized engine benefits from more LEDs per area contributing to more compact and cost effective solutions.

Standard engines minimize spare components which are easy to configure by using our Service tag application.



## Tailor-made solutions

- Tuning to project preferences

Using a **variety of LED counts it enables to build the exact required flux** in a perfect balance between energy consumption, luminaire cost/type and operational life. Based on project parameters the best optical fit can be selected and when required **light distributions can be customized for best application fit** and to maximize energy savings.

# Product specifications

# Specifications

Product Family Code (PFC)	Small BGP235, Medium BGP236, Large BGP237, X-Large BGP238
Range: LED lumens ( $\pm 7\%$ ) Total system watt ( $\pm 11\%$ ) Max T amb 50C	Small BGP235 => Max. 26,000 lm (158W) Medium BGP236 => Max. 52,000 lm (315 W) Large BGP237 => Max. 78,000 lm (475 W) X-Large BGP238 => Max. 104,000 lm (630 W)
Luminaire system efficacy	> 130 lm/W (symmetrical optics)
CCT	4000K (NW) or 5700K (CW) (3000K/WW optional)
CRI	CRI > 70
Initial Tolerances on CCT	5 steps MacAdam
Inrush current	See datasheet drivers Xi-FP & SR (40W, 75W, 150W)
Lifetime expectancy	Min L95 = 100,000 hours (See LPT for accurate value per type)  Driver: 100,000 hours at failure rate of < 10%
Light distributions / optics	Large range of tunnel lighting distributions: Counterbeams, symmetrical and asymmetrical
Operating temperature range	-40 to +50°C
Electrical insulation class	Class I or Class II
IK	IK09
Degree of protection	IP66
System surge protection	Drivers are rated standard 6kV with option for 10kV
Packaging	Carton box or multipack

Material / Finishing	Housing: Die-cast aluminum (LM6) with powder coat finish
	Color: Grey (RAL 7035) or Ultra Grey (RAL10714)
	Optics cover: Tempered flat glass 6 mm thick with glass screening print
Size Luminaire (mm) excluding brackets (L x W x H)	Brackets are separated from the aluminum housing by isolation pads
	Small BGP235: 363 x 485 x 89 mm Medium BGP236: 727 x 485 x 89 mm Large BGP237: 1090 x 485 x 89 mm X-Large BGP238: 1453 x 485 x 89 mm
	Small BGP235: 7 kg, Medium BGP236: 14 kg, Large BGP: 21 kg, X-Large BGP238: 28 kg
Weight excl. brackets (kg)	Flying lead options: Cable IN with or without plug (Wieland or Gewiss IEC309) Socket options: Power-IN/OUT and DALI IN/OUT, or power and control IN/OUT Gland options: Power-IN/OUT and DALI IN/OUT, or power and control IN/OUT DALI control (D9), Codes mains control (D28), Lineswitch (D11/D12), 1-10V (D7)
Electrical connection	Mains: B2ca or Eca acc. CPR or function integrity FEI80/E90
Control	Constant Light Output (CLO)
Cable Type	Marine salt protected coating (MSP) instead of single layer protection
Options	Metal cable gland instead of polyamide gland (PA)
	Base plate bracket (BA)
	Ceiling mounting bracket (MB)
Luminaire mounting	Quick release bracket (for cable tray 100, 200 or 300 mm wide and 75 mm high): MBQA-S, MBQA-M and MBQA-L
	Adjustable wall-mounting bracket 0 to 90° (MBA)
	Customer bracket at request
Certification / Listing	CE, ENEC and ENEC+
	Corrosion resistance: salt spray test 500 h (single layer protection) or 1440 h (marine salt protection)

# Remote driver options

(Only possible in Class 1)

TubePoint gen2 can be ordered “prepared for” remote driver location.

- Luminaire has an empty driver compartment
- Plug connection to wire the LED unit to a remote driver

Metis driver unit is suitable to house remote TubePoint drivers up to 200 m.

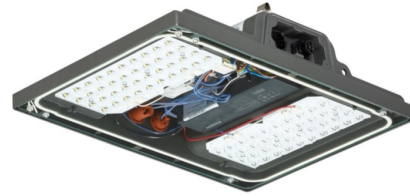


Luminaire	Type	Nr. of luminaires to connect	EGP400 type
TubePoint small	Max 26,000 lm	10	EGP400 10 PSD 40 up to 150W 10XOUT
TubePoint medium	Max 52,000 lm	5	EGP400 10 PSD 150W 5XOUT
TubePoint large	Max 78,000 lm	3	EGP400 9 PSD 150W 3XOUT
TubePoint x-large	Max 104,000 lm	3	EGP400 6 PSD 330W 3XOUT (in development)

# TubePoint gen2 sizes

## TubePoint small (BGP235)

1 module  
Small is available in  
3,000/5,000/9,000/12,000/  
18,000 and 26,000 lm



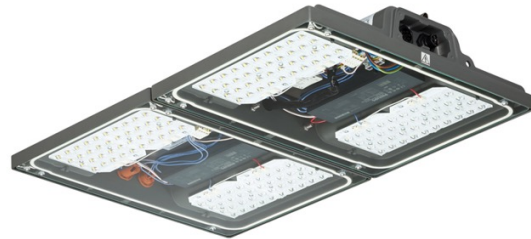
## TubePoint large (BGP237)

3 modules  
Large is available in  
54,000/64,000 and 78,000 lm



## TubePoint medium (BGP236)

2 modules  
Medium is available in  
36,000 lm and 53,000 lm



## TubePoint x-large (BGP238)

4 modules  
X-large is available in  
max 104,000 lm



Note: next to the standard versions we can also provide “boosted” versions that deliver even higher lumen packages.

# You and Signify – a reliable partnership

Signify is the world leader in connected LED lighting systems, software and services. We proudly bring to market the best lighting brands in the world, including Signify, Philips and Interact.

We believe in close cooperation before, during, and after every project. Our local teams provide the support and information you need—with flexible, on-time delivery and reliable product availability.

To help you stay ahead, the [Signify Lighting Academy](#) offers a comprehensive range of educational resources to grow your expertise and earn certification.

Get more info on our products, services and tools:

[signify.com/installer](https://www.signify.com/installer)

[signify.com/specifier](https://www.signify.com/specifier)

# Our global brands

 Signify

Signify represents our commitment to sustainable innovation. As our leading brand for connected lighting systems, luminaires and components for the specification project business, Signify solutions serve the segments where we collaborate most closely with our customers.

 Signify interact

Signify Interact is our IoT software platform for managing smart lighting systems and unlocking the value of the data they collect. Easy to install and configure, Interact supports a wide range of applications—from small offices to entire cities.

**PHILIPS**

Philips stands for quality and energy efficiency in lighting. It is our leading brand for innovative, off-the-shelf lighting products for professionals and consumers alike.

# Get into pole position with high-performance, energy-efficient LED



Signify is Official Lighting Partner of  
Mercedes-AMG PETRONAS F1 Team

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Official Lighting Partner

 **AMG**  
**PETRONAS**  
FORMULA ONE TEAM

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the meaning of light