

Luma gen2

Road and urban lighting

Luma gen2

Connected, ultra-efficient road lighting for a more sustainable present and future

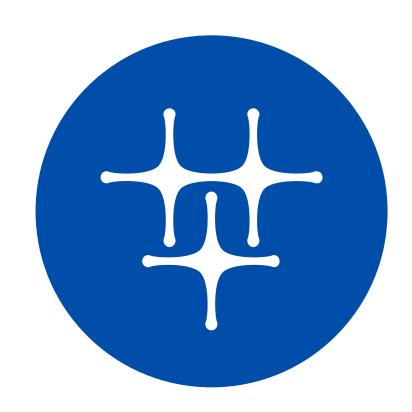






Lighting the way to a smarter, more sustainable city

The Philips Luma family is designed to deliver flexible, ultra-efficient, and sustainable lighting that adapts to the dynamic needs of every city



Adaptable lighting system

Easily deliver optimal lighting for urban or rural environments with vastly different requirements



Reduce energy costs

UltraEfficient versions with 200 lm/W efficacy available



Meet sustainability goals

Designed for a second lifetime with easy servicing, upgrade options, and recyclable materials

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Luma gen2 in a nutshell

Get all product details and documents in the Philips e-cat

Interact Ready connectivity for smart lighting

Read more

Energy-efficient and durable

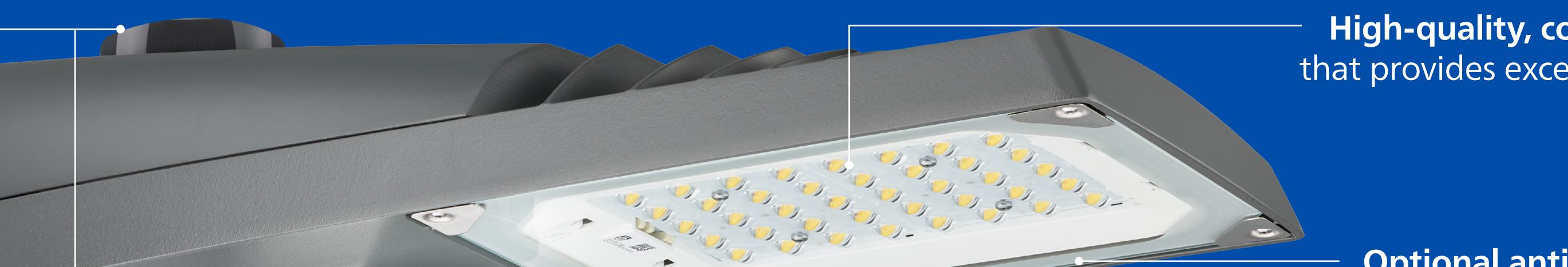


- New: Selected Ultra Efficient configurations with 200 lm/W
- Lifetime: 100,000 hours (L99), for selected configurations
- Source lumen output (LED Cold Flux): 600-100,000 lm
- IK10 for standard aluminum housing, IK09 for all added connectors

Sustainable upgrades

- GearFlex housing is made from post-industrial recycled material
- White mask is made from post-industrial recycled material
- Luminaire housing is made from 85% recycled aluminum
- Product packaging minimizes plastic waste by dispensing with product wrapping foil
- Easy disassembly in just 7 steps at end of life See Environmental product declarations (EPD) for details





High-quality, comfortable light that provides excellent visibility for enhanced safety

> Optional anti-reflective glass helps to maximize efficiency

Simplified maintenance

Thanks to Signify Service tag and the removable GearFlex module Learn more about Signify Service tag Read more about GearFlex

Wide application coverage

LEDgine optimized and new extension LEDgine performance (UE) platform, plus wide range of optics for great performance in many applications Read more





Main applications



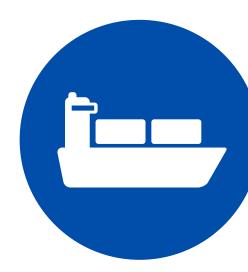
Motorways and highways



Roads and streets



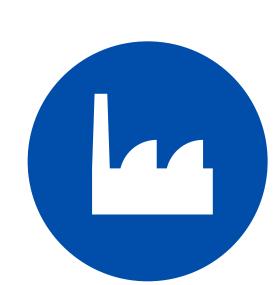
Cyle and pathways



Marine environments



Outdoor parking areas



Industrial areas





Your application, our LEDgine solutions

Our innovative range of flexible LEDgine LED light sources and optics offer solutions for every lighting need. Discover the new LEDgine performance and proven LEDgine optimized.



UltraEfficient LEDgine

- LEDgine performance enables ultra-efficient lighting with a system efficacy of an impressive 200 lm/W for selected configurations
- Minimization of luminous flux and energy consumption by using the highest lumen maintenance (up to L99)
- Enables attractive total cost of ownership through high energy savings and reduced initial cost thanks to high fluxes in same housing



Standardized optics

- Complete optics and louvers range for a perfect fit and standardization in any application
- Outstanding performance across diverse geometries
- Supports various design parameters, including tilt and overhang
- Similar light distribution to conventional lighting to ensure design continuity after LED conversion
- Compliant with road lighting standards



Standardized LEDgine optimized and LEDgine performance engines

- Light engines optimized for the best balance of cost, energy efficiency, and application versatility
- Access to latest LED upgrades without altering light distributions
- Consistent flux packages across product ranges, including Constant Light Output (CLO) options
- Lighting design remains consistent after LED upgrade
- Easy configuration thanks to Signify Service tag
- Many optics are shared between LEDgine performance and LEDgine optimized, streamlining service parts and maintenance



Tailor-made solutions

- Create customized project solutions with the exclusive calculation tool by Signify
- Set the required flux for optimal balance between operational life, maintained flux, energy costs, and product type
- Environmentally friendly ClearField (for protection of bats) and ClearStar (for night sky preservation) light recipes
- Create custom standards to align with specific requirements and policies

Designed for a circular economy

In 2024, we used <u>1.7 times</u> the resources our planet can sustain. To transition to a sustainable and circular economy, we need to rethink the way we produce and consume. There's no plan B for our home planet.

By choosing our lighting for circularity solutions, you get flexibility in lighting configurations and settings while reducing your carbon footprint to help you reach your sustainability development goals.

Go for optimal sustainability by selecting your renovation path

Are you looking to update your non-LED lighting?

- Choose our lighting for circularity products
- Full portfolio of circular economy ready Philips LED luminaires
- Superior efficacy
- Products are recyclable, connectable and serviceable.

Are you planning to update your LED-based infrastructure?

- Discover our remanufacturing or refurbishment services
- Gain enhanced luminaire performance, extended lifetimes, and end of contract management

Do you want to unlock the potential of smart lighting?

- Update your infrastructure to smart lighting with our systems solutions
- Optimize your energy costs with insights into your energy usage
- Configure lighting behavior
- Remotely monitor your lighting system



> Learn more about lighting for circularity

Philips Luma gen2 meets the five criteria of lighting for circularity



1. Energy efficiency and extended lifetime

- UltraEfficient version available with luminous efficacy of 200 lm/W for selected configurations
- Select LEDgine performance (1P) product versions
- Tailor-made optics support optimized lighting design in various applications for even greater energy savings
- Long lifetime of 100,000 hours (L99) for selected configurations reduces the need to replace luminaires or components

2. Connectable

- Zhaga or Nema sockets can connect Luma gen2 to smart lighting systems (Interact or any other CMS)
- Choose Interact Ready product version (IACZ-4)
- The Zhaga bottom socket supports Zhaga-compliant sensors (e.g. for motion, noise, and air quality sensing)
- Choose Outdoor Multisensor (OSB)

3. Upgradeable

 The driver and other electrical components can be easily upgraded by replacing the GearFlex box



4. Reusable and recyclable

Replacing luminaire parts can significantly extend the service life of a Luma installation. At the end of its service life, the luminaire can be easily dismantled and disassembled into individual parts made of the same (pure) material in just seven steps. Those materials can then be recycled, contributing to an overall reduced carbon footprint.

Housing: Die-cast aluminum

85% from recycled content

White-frame: sustainable plastic

PIR — Post Industrial Recycling

GearFlex: sustainable plastic

PIR — Post Industrial Recycling

5. Serviceable

 Signify service tag QR-based identification system for easy identification of spare parts





Interact is part of our lighting for circularity offer

Interact for smart lighting in city applications

Interact City lighting management software turns your street lighting into a connected network capable of hosting sensors and other IoT enabled devices. It enables you to tap into a wide range of both lighting and non-lighting benefits such as dimming, presence detection, noise or air quality monitoring, and incident detection.

Smart

- Benefit from remote control and monitoring and reporting capabilities
- Use data to make better informed decisions more quickly

Sustainable

- Identify opportunities for further energy savings by dimming, scheduling and zoning
- Optimize the lights' power factor to minimize waste and reduce demand on the power grid

System ready

- The Open APIs of the system allow Interact City lighting management software to be integrated into your other city management systems
- This enables your existing partners or independent third parties to use it as a platform for future innovation

Select IACZ-4 (Interact City) product versions

This is all you need for your smart lighting system



Refined details for a durable design





Easy maintenance with GearFlex plug-and-play

GearFlex is designed to make Luma gen2 maintenance safer and more efficient

GearFlex is an internal component box within the luminaire, designed for easy maintenance. Technicians can simply remove the GearFlex module to replace or adjust components in the convenience of their van or workshop — reducing the need for ladder work and making maintenance much safer and more efficient.

- Fast GearFlex replacement in 30 seconds*
- Designed for recycling and optimal re-use of components
- Increased performance and safety with no live wires
- No risk of faulty wiring in the field
- Safe repair in the workshop



*Validated in service tests performed by qualified third-party installers

Replace the GearFlex module without tools in 5 easy steps

- 1. Open the luminaire
- 2. Remove the GearFlex box it's quick and tool-free
- 3. Scan the Service tag QR code with a smartphone using the Service tag app
- **4.** Take the replacement GearFlex module and program the driver with the Service tag app
- 5. Place the module in the luminaire and close it

Done!



Signify Service tag

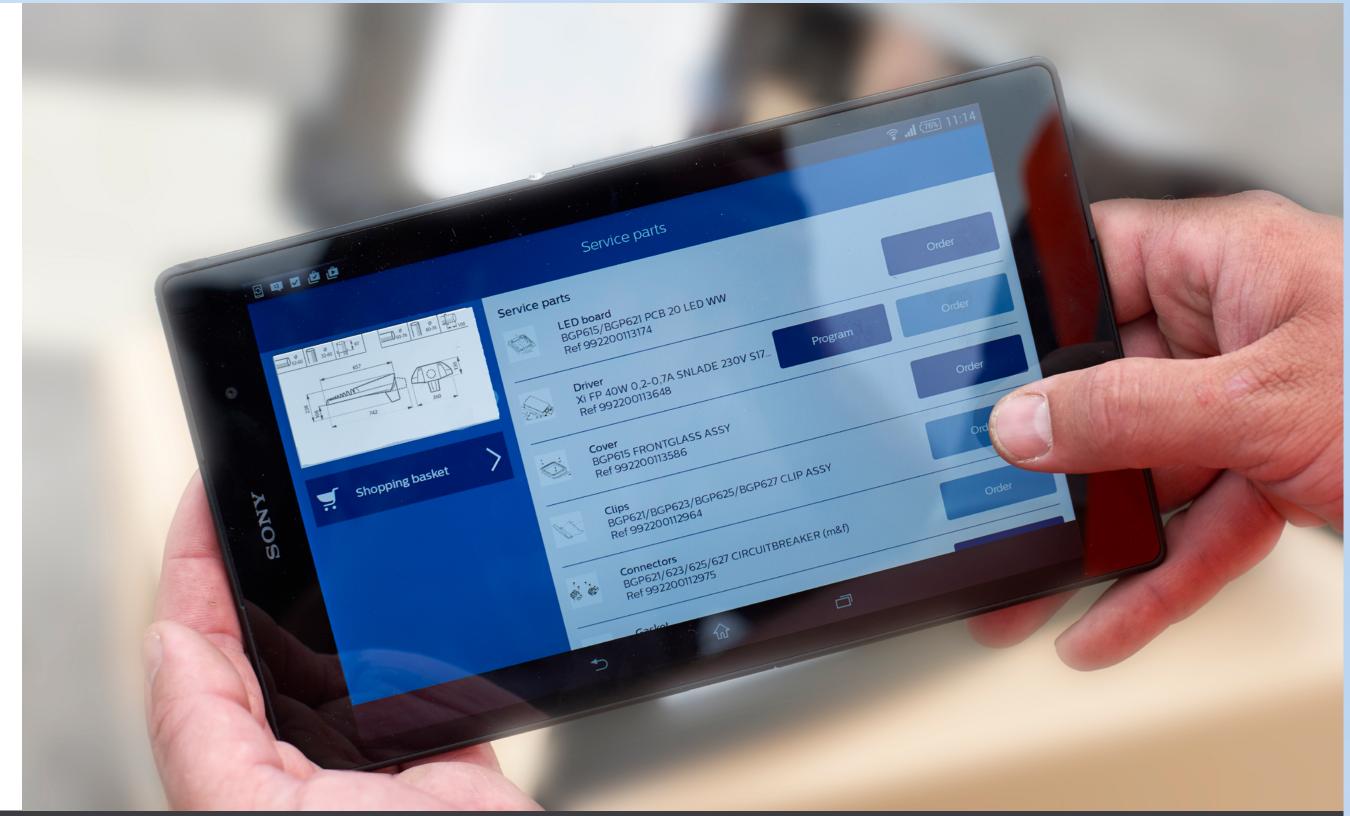
Service tag from Signify is a unique QR code-based LED luminaire asset identification system that provides detailed information on specification and spare parts. The system simplifies the installation and maintenance of lighting infrastructure by utilizing cloud technology. Service tag also plays a key 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.

How it works

Every Luma gen2 luminaire is equipped with a unique QR code. All relevant asset data is stored in the service cloud, including:

- Detailed luminaire specification
- User data (geo-location, external ID, notes, etc.)
- Information on spare parts and accessories

By scanning the QR code on the packaging, luminaire, or pole with the Signify Service tag app, this information becomes instantly accessible, offering invaluable benefits.





Easy installation and commissioning

Access to product details, manuals and spare parts
Helps avoid errors



Simplified maintenance

Detailed information on products

Quick access to relevant information
means less time required for repairs
or replacements



Asset management

Real-time tracking of assets

Simplified management of replacements, upgrades and warranty information



Digital workflows

Simplified component replacement, error diagnostics, service requests, configuration changes, and more



Download the Service tag app for free!





Learn more on signify.com/global/service-tag



Product configuration example

The example shown assumes a configuration based on a correlated color temperature of 4000K — it illustrates only a small part of the almost infinite configuration possibilities of Luma gen2.



Family description



BGP701: Luma gen2 nano



BGP703:



BGP702: Luma gen2 micro



BGP713: Luma gen2 mini compact Luma gen2 large



BGP704: Luma gen2 medium



BGP705:

	Power (W)*	Luminous f	lux ranges*	Luminous eff	icacy (lm/W)*
		LEDgine optimized	LEDgine performance	LEDgine optimized	LEDgine performance
BGP701	5.6-62	384-8,550	492-10,120	130-153	143-181
BGP702	5.6-62	384-8,550	492-10,120	130-153	143-181
BGP713	5.6-122	392-16,150	762-20,240	131-167	154-191
BGP703	5.6-122	392-16,150	762-20,240	131-167	154-191
BGP704	13.4-168	1152-24,960	1,500-29,440	148-172	175-196
BGP705	41.5-550	4128-56,320	5,160-89,000	142-167	162-200

Road optics LEDgine optimized (4S)

Narrow:

DN08, DN09, DN10, DN11, DN25, DN26, DN33, DN50

Medium:

DM10, DM11, DM12, DM13, DM30, DM31, DM32, DM33, DM50, DM52, DM65, DM70

Wide:

DW10, DW30, DW50, DW52, DW65

Extra wide:

DX10, DX50, DX51, DX52, DX70

Road optics LEDgine performance (1P)

Narrow:

DN08P, DN09P, DN10P, DN11P, DN27P**, DN50P

Medium:

DM14P, DM15P, DM16P**, DM20P, DM24P, DM30P, DM31P, DM32P, DM65P, DM70P

Wide:

DW10P**, DW30P, DW52P

Extra wide:

DX50P, DX51P, DX70P

Connectivity options

IACZ-4: Interact City **OSB:** Outdoor Multisensor

Dimming options

D9: DALI

D11, D12: LineSwitch **D13:** Amp dimming

D18: Stand-alone DynaDimmer

D28: Dimming via coded mains voltage

Optional features

FG-AR: Flat glass, Anti-reflective

MSP: Marine salt protection coating

FU: Fuses

SRG10: Surge protection 10kV

CABLLENGTH: Pre-fitted with cable up to 22 m

*Based on 4000K system level

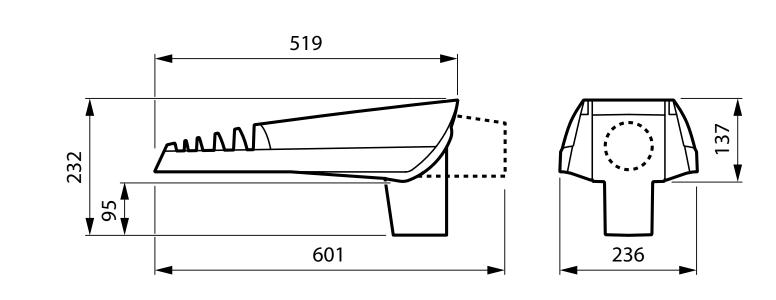
**Available in Q3 2025

Get all product details and documents in the Philips e-cat

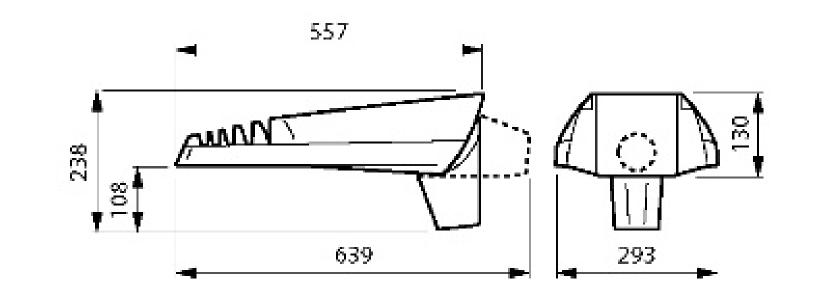
Power (W)	BGP701, BGP702: 6-62 / BGP713, BGP703: 5.6-122 / BGP704: 13.4-168 / BGP705: 41.5-550	
Luminous flux ranges*	BGP701, BGP702: 384-10,120 / BGP713, BGP703: 392-20,240 / BGP704: 1,152-29,440 / BGP705: 4,128- 89,000	
Luminous efficacy* (lm/W)	BGP701, BGP702: 130-181 / BGP713, BGP703: 131-191 / BGP704: 148-196 / BGP705: 142-200	
Correlated color temperature (K)	1800 (only for 1P) / 2200 / 2700 / 3000 / 4000 / 5700	
Color rendering index	>70 (for CW, NW) / >80 (for WW)	
Lifetime	100,000 hours (L93-L99)	
Operating temperature range	-40 to +50 °C	
Light recipes	518, 420 ClearStar / 610 ClearField	יכנ
Driver	Programmable LED drivers (DALI, D4i)	
Dimming	Stand alone DynaDimmer / DALI / LineSwitch / Mains dimming	
Connectivity options	Interact City / Outdoor Multisensor / Zhaga D4i / Nema	
Connection	Plug-in cable connectors	
Optics	Narrow / Medium / Wide / Extra wide	000
Louvres	Dedicated louvres for backlight cut-off BL1, BL2	
Tilt	Standard tilt angle post top: 0° / Adjustable tilt angle: from -20 to +20° (ajustable in steps of 2,5°)	
Installation	BGP701-704, 713: post top; side entry mounting Ø 32-60 mm / BGP705: post top, side entry mounting Ø 48-76 mm Recommended mounting height: 4-18 m	
Ingress protection/Impact resistance	IP66 / IK10 (not connected)	
Surge protection	6-8kV standard / 10kV with SPD (SRG10)	
Options	Flat glass, anti-reflective (FG-AR) / Marine salt protection coating (MSP) / Fuses (FU) / Pre-fitted cable <22m (CABLLENGTH)	

Product dimensions

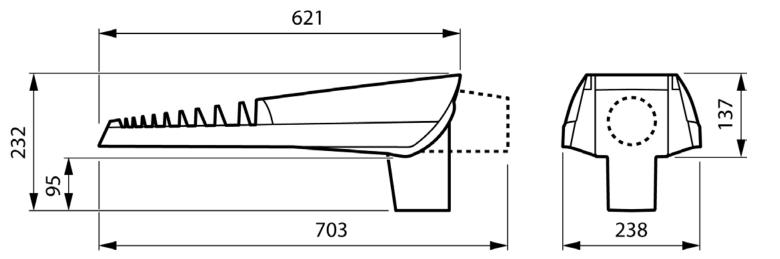
Luma gen2 nano



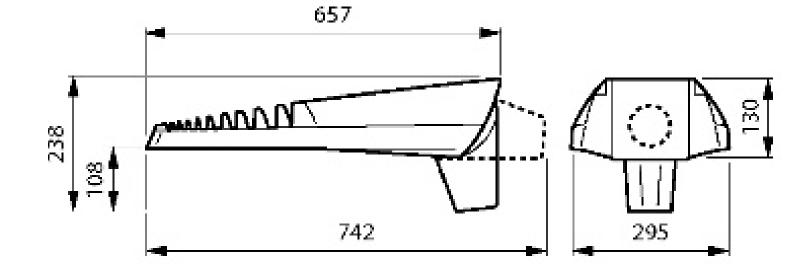
Luma gen2 micro



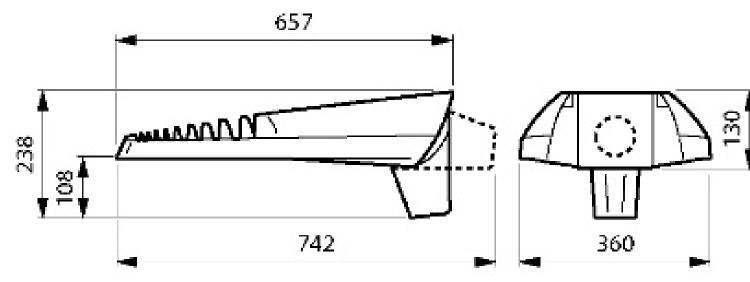
Luma gen2 mini compact



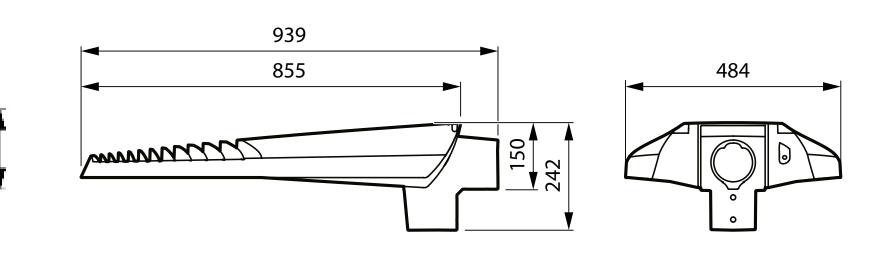
Luma gen2 mini



Luma gen2 medium



Luma gen2 large



You and Signify – a reliable partnership

Signify, previously known as Philips Lighting, is the world leader in connected LED lighting systems, software and services. We proudly market the best lighting brands in the world, including Philips and Interact.

Close cooperation before, during and after projects is important to us.

Our local service teams make sure you always get the competent support and information you need. You can rely on us for flexible, on-time delivery and product availability.

To help you stay on top of your game the <u>Signify Lighting Academy</u> offers a comprehensive range of educational resources for you to grow your expertise and get certified.

Our global brands

PHILIPS

The Philips brand stands for quality and energy-efficiency in light. For over 125 years, Philips products have been at the forefront of innovation.

Today Philips is recognized as the leading brand in lighting.

interact

Interact is the brand of our IoT software and platform that manages smart lighting systems and the data that those systems collect.

Easy to install and set up, Interact software can be used in a wide range of application areas, from small offices to entire cities.

Get more info on our products, services and tools:



Signify and Mercedes-AMG PETRONAS F1 Team are driven by a shared passion for technology and the desire to push the boundaries of what is possible.

Our innovations in lighting support the team's ambition to become one of the world's most sustainable in sport, serve the well-being and performance of the team, and deliver powerful experiences for fans, trackside and at home.

Learn more at







Official Lighting Partner



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