

**PHILIPS**



Garage & Canopy

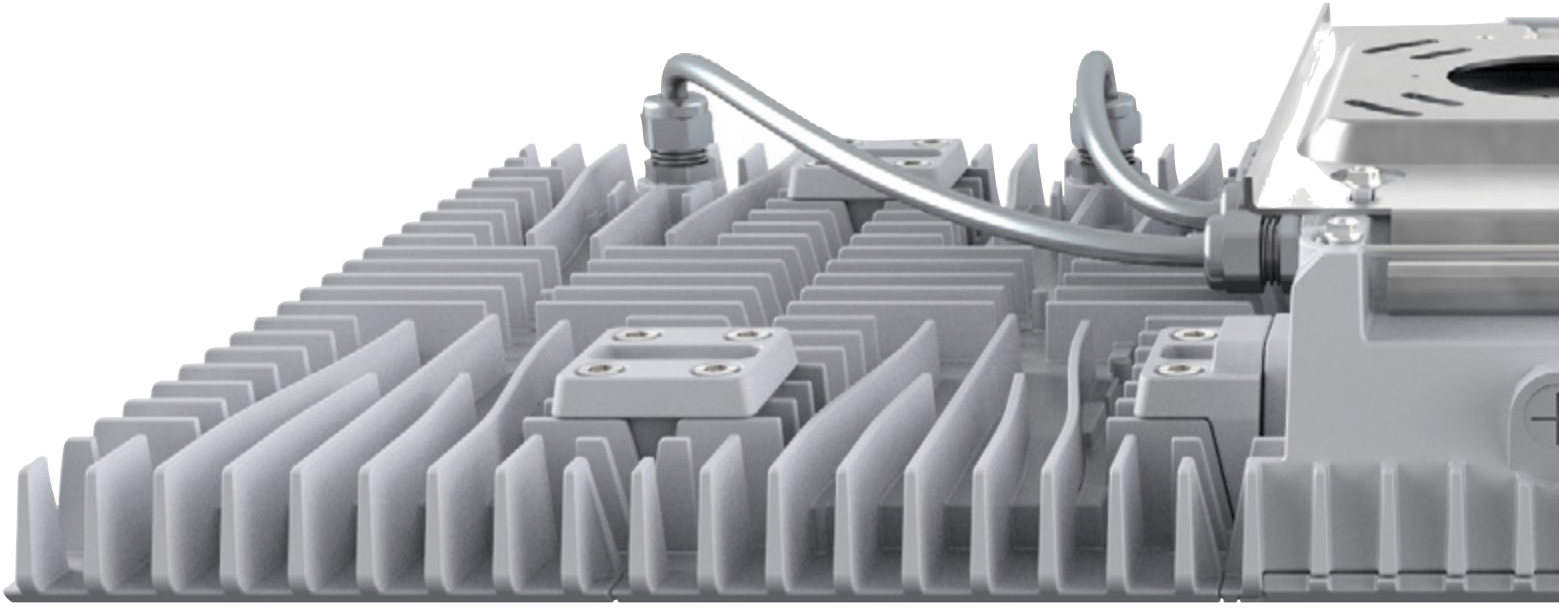
G3 Garage



# Modular design for **ultimate savings**

Blending low profile flexibility  
with excellent performance



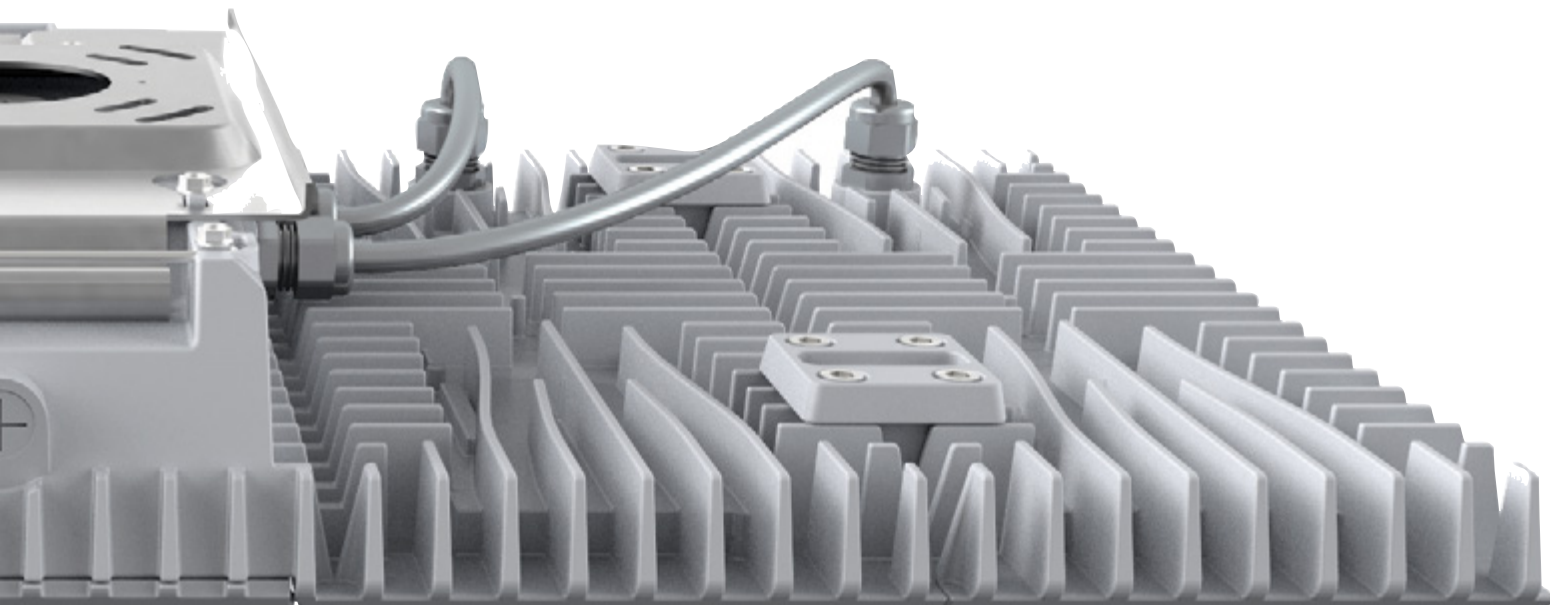


# A single garage luminaire with **boundless possibilities**

The Philips Gardco G3 garage luminaire delivers an affordable parking garage lighting solution with a comprehensive range of features. Blending low-profile flexibility with excellent performance, G3 provides a high quality solution specifically designed to meet the challenges of parking garage applications. Whether you are seeking energy savings, or you require an enhanced sense of security and optimal light levels, the G3 has you covered.

The G3 luminaire's versatile modular construction allows for complete design flexibility. A single installed luminaire can have from one to two LED modules, varying your light levels while keeping overall installation and operation costs low. Combining the benefits of LED with stand-alone or integral wireless control solutions, G3 provides even more design flexibility and energy savings.





### **Lowest wattage two per bay solution**

The G3's lowest wattage solution is a single 16 LED array that consumes up to 57 watts per luminaire combined in a typical two per bay configuration. This arrangement meets the current and the proposed IES RP20 design guidelines, offering one of the most energy efficient solutions available today. Designed as a direct replacement for a standard 150 watt (185 system watts) pulse start system, the standard G3 saves 85% in energy costs<sup>1</sup>.

### **Lowest cost one per bay solution**

If your design criteria requires a one per bay configuration, the dual 16 LED array G3 can meet both current and proposed IES RP20 design guidelines by utilizing the Type 1R optical system. This arrangement provides a 70% energy savings when compared with traditional 150 watt pulse start systems (185 system watts)<sup>2</sup>. By reducing your luminaire requirements, the installation and system maintenance costs are also reduced by 50%.

### **Enhanced light levels for improved sense of security**

When safety and sense of security are top priorities, higher light levels than what the IES RP20 recommends may be necessary. With the G3's modular design, you can use up to two LED arrays. This provides the flexibility of utilizing higher lumen packages without the need for additional luminaires and is also ideal for garage entrance and exit transitions or where higher than normal ceilings exist.

### **Stand-alone motion response controls provide additional energy savings**

Parking garages are perfect applications for control systems offering increased energy savings. The Philips Gardco G3 luminaire offers several control configurations, including an integral stand-alone motion response system. This is the simplest controls solution available today and can save additional energy during unoccupied times. It requires no additional wiring or commissioning at installation and can be easily updated in the field using the available FSIR-100 wireless hand held programmer.

### **Wireless control solution enhances sense of security, flexibility and user experience**

For the ultimate in system management and monitoring, the G3 luminaire is available with the a wireless control system. Zones can be configured so that when motion is detected, the patron experiences a seamless visual experience that stand-alone controls simply cannot equal without complicated and expensive wiring. Accessible and configurable via the web, the site can be monitored and updated in real time for added security and improved maintenance.

1. G3 at 57 watts per bay compared to 150PSMH at 370 watts per bay = 85% savings.  
2. G3 at 57 watts per bay compared to 150PSMH at 185 watts per bay = 70% savings.

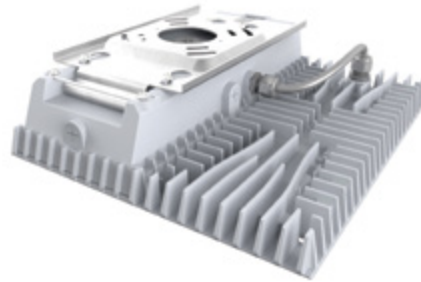
# Modular design increases light levels without adding luminaires

G3's modular design uses one to two 16 LED arrays. You now have the flexibility of utilizing higher lumen packages in single or two luminaire per bay applications to provide enhanced light levels.



## Single LED array

G3's lowest wattage solution is a single 16 LED array that consumes up to 57 watts per luminaire.



## Twin LED array

The dual 16 LED array G3 consumes up to 107 watts per luminaire.



# More control means greater savings



## Luminaire solutions

Basic. Autonomous. Affordable.

Are you looking for simple, individual outdoor lighting control without the need for remote access? If so, our stand-alone luminaire managed lighting solutions may suit your needs.

- Individual LED luminaire dimming and management
- Pre-programmed, factory customized and user customized settings
- Low acquisition costs for small quantities
- No recurring costs
- **Dynadimmer Stand-alone Dimming Profile**
- **Programmable Motion Response**
- **Field Adjustable Wattage Selector**



## Site solutions

Intermediate. Informative. Flexible

Are you looking to wirelessly manage your parking garage lighting as a single system or as separate lighting groups within the site? Do you want to monitor and respond to real-time energy usage and track data trends? If so, our web-based site managed connected lighting systems may suit your needs.

- Single-site LED dimming and management
- Coordination of the entire system, lighting groups or individual luminaires
- Daily, weekly, quarterly online report generation
- Wireless, on-site access
- Low recurring web site portal access costs
- **Wireless Control System**

For more information on Philips stand-alone and connected outdoor lighting solutions, visit [www.philips.com/luminaires](http://www.philips.com/luminaires) and select Controls Outdoor, or request our outdoor lighting solutions brochure.



# Construction features

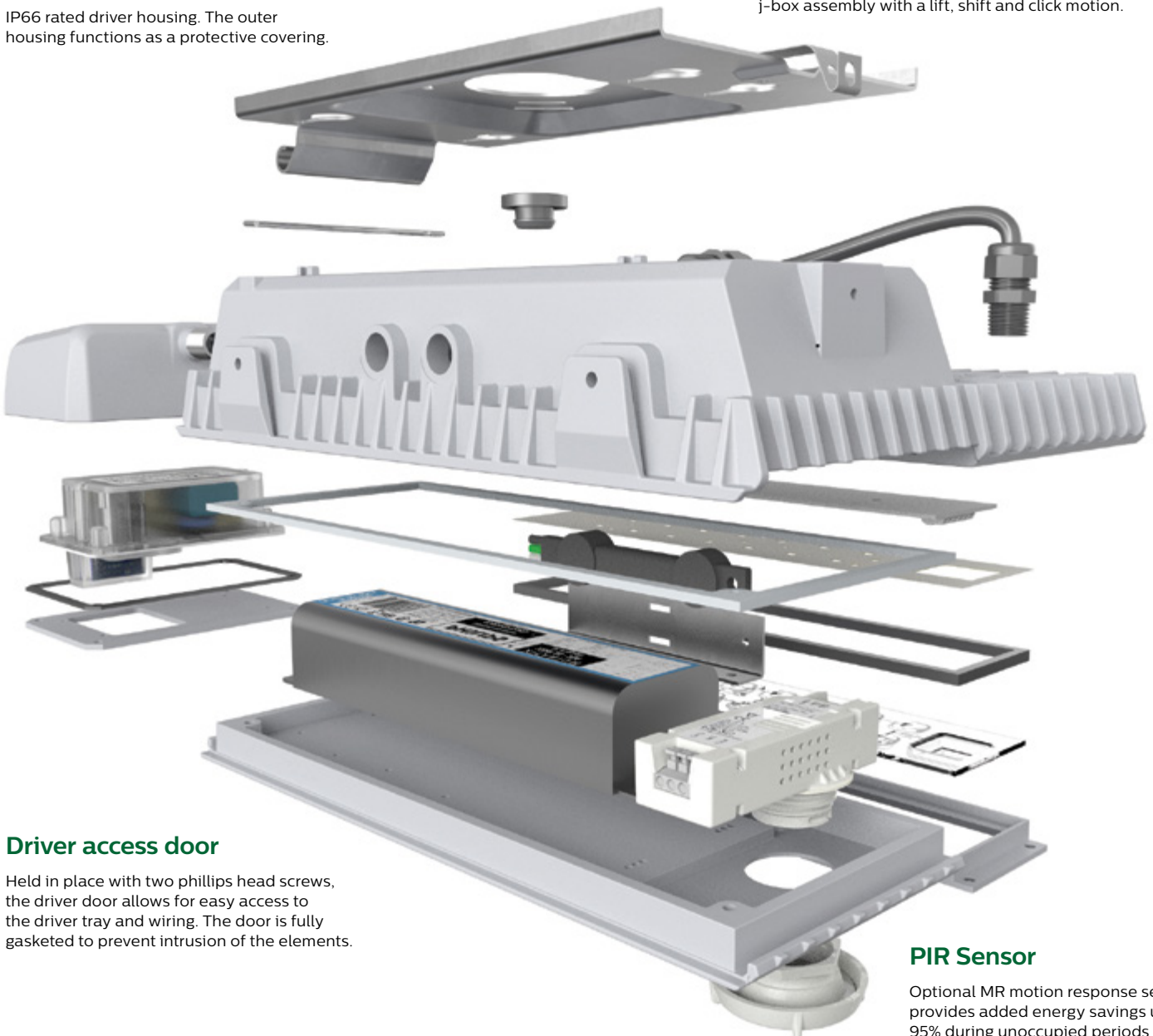
The configuration of hardware, components and accessories reflects the impressive design and engineering of the G3 luminaire. Each element demonstrates an innovative, practical and refined approach to achieving long-term performance and trouble-free operation.

## Cast aluminum enclosure

IP66 rated driver housing. The outer housing functions as a protective covering.

## Mounting system

A die formed galvanized steel plate is supplied for mounting to a recessed, surface, or rigid pendant hung j-box. An integral hanger tab on the plate supports the luminaire during wiring. The luminaire is then securely attached to the j-box assembly with a lift, shift and click motion.



## Driver access door

Held in place with two phillips head screws, the driver door allows for easy access to the driver tray and wiring. The door is fully gasketed to prevent intrusion of the elements.

## PIR Sensor

Optional MR motion response sensor provides added energy savings up to 95% during unoccupied periods and works as a 'Smart Luminaire' requiring no added wiring or commissioning at install.

### Wireless control system

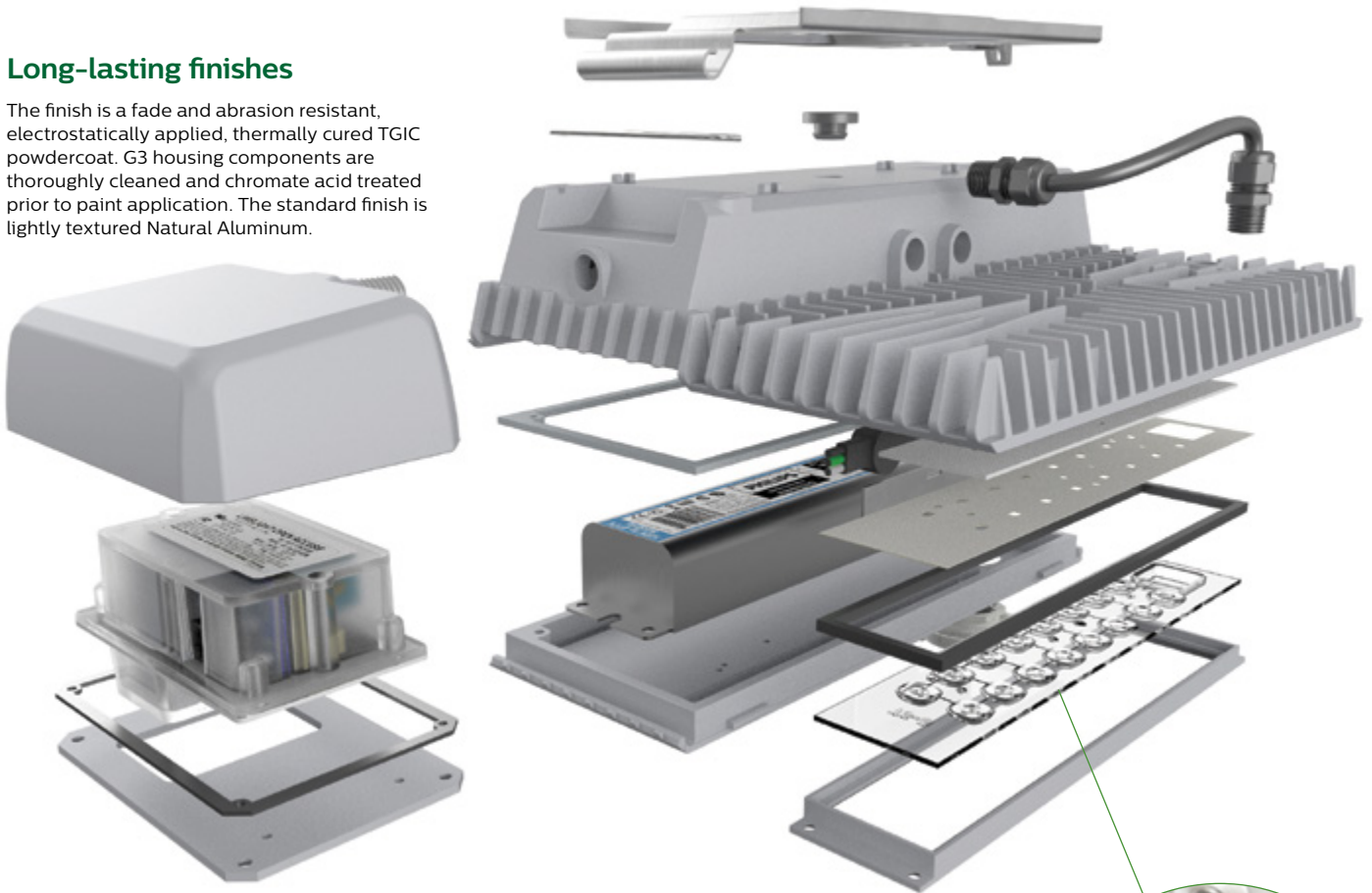
The wireless control system interacts directly with each luminaire through the Wireless Remote Module. This placement allows for unobstructed access while not interfering with the optics.

### Heat sink

Radiating fins of die cast aluminum comprise the upper part of the G3 luminaire and efficiently conduct heat away from the LED components. The fins are specifically designed to maximize airflow, assist in cooling and increase the overall thermal efficiency of the luminaire, providing the longest possible LED and component life.

### Long-lasting finishes

The finish is a fade and abrasion resistant, electrostatically applied, thermally cured TGIC powdercoat. G3 housing components are thoroughly cleaned and chromate acid treated prior to paint application. The standard finish is lightly textured Natural Aluminum.



### Weatherproof gasketing

When the components are closed, the 1/8" EPDM gasketing is compressed, forming a continuous, positive seal.

### Advanced LED arrays

The Class 1 advanced LED arrays are available in five unique configurations. Each LED is encased in its own unique optic and placed within the array to provide precise illumination patterns. Optical arrays are IP66 rated.



# G3 Optics

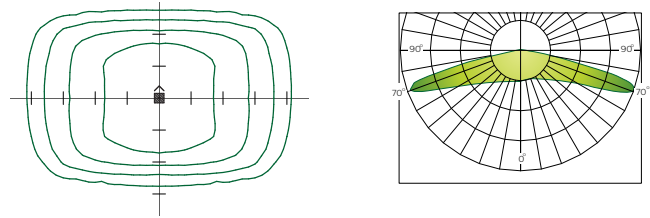
The G3 employs a sophisticated high output Class 1 LED array system that delivers one of five unique distribution patterns. This system delivers increased light output and a longer lifespan than conventional HID sources, while consuming a small fraction of the energy. These unique distributions provide remarkable flexibility in precisely matching light distribution patterns to difficult garage constraints.

The Type 1R is a rectangular distribution specifically designed for parking garage geometry. The Type 3 provides greater forward punch while minimizing backlight.

The G3 offers two Type V optics. The Type 5 is a straightforward choice for maximizing luminaire spacing within parking areas. The Type 5DL incorporates a diffuse lens to minimize LED brightness and provide more comfort to drivers within the garage.

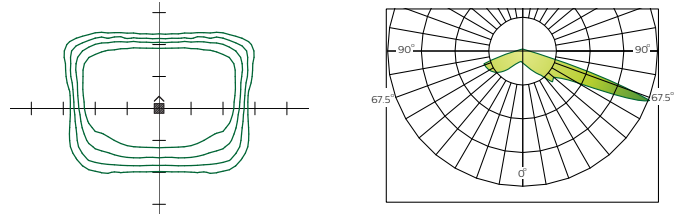
Finally, the Concentrated Downlight (CD) optic provides high light levels directly underneath the luminaire and is ideal when footcandle requirements are greater than normal, such as at garage entrances and exits.

## Type 1R



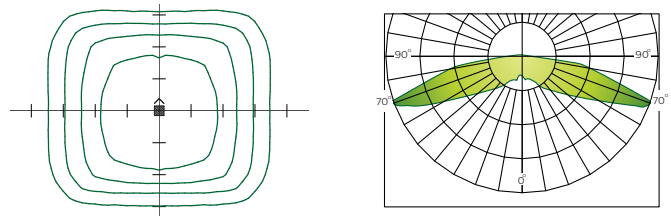
The rectangular Type 1R optical system was invented for parking bays. It provides maximum candlepower at the corners of the distribution, eliminating brightness in the driving lane and providing fill-in light at the corners. The Type 1R eliminates energy-wasting overlap, precisely and evenly filling the bay. Higher lumen utilization for the covered area means fewer luminaires are required to completely illuminate the garage to the required light levels.

## Type 3



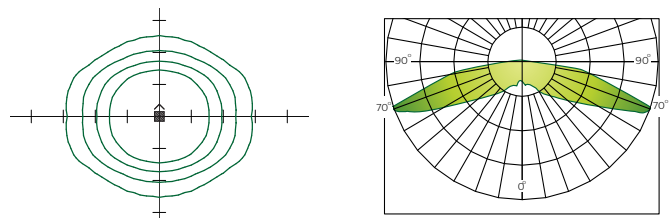
IES Type III optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. The G3 Type 3 is extremely useful along the parking garage perimeter.

## Type 5



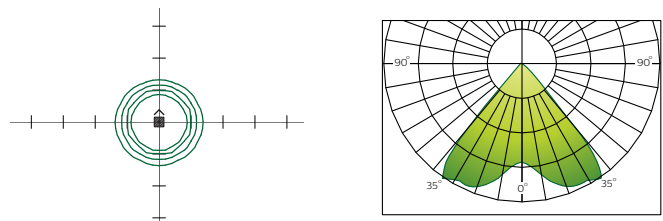
The Type V produces a square distribution. This distribution is intended for luminaire mounting at or near the center of the parking bay as well as in areas where sufficient, evenly distributed light is necessary.

## Type 5DL



The Type 5DL incorporates a diffuse lens to minimize perceived LED brightness and provide more comfort to drivers within the garage.

## CD



The Concentrated Downlight (CD) optic provides high light levels directly underneath the luminaire and is ideal when footcandle requirements are greater than normal, such as at garage entrances and exits.



# G3 Dimensions

Single LED array

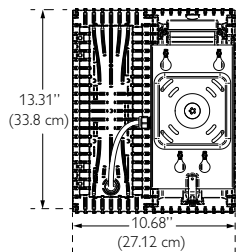


Twin LED array

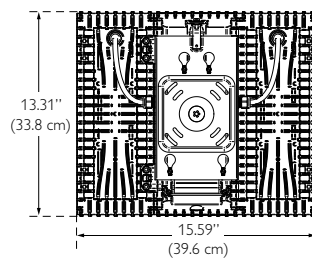


## G3 standard luminaires (EZ Hanger Plate Mount shown)

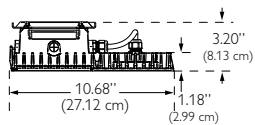
1 LED Array Top View



2 LED Array Top View

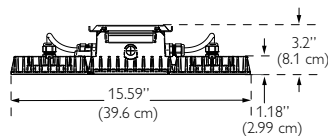


1 LED Array Side View



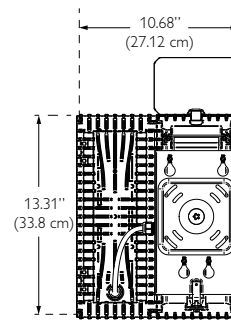
Approximate luminaire weight:  
9.75 Lbs (4.42 Kg)

2 LED Array Side View

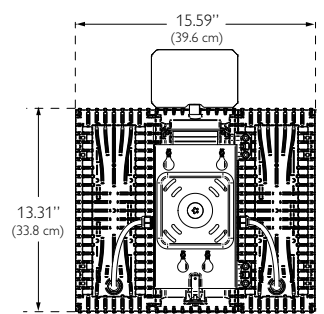


Approximate luminaire weight:  
12.5 Lbs (5.67 Kg)

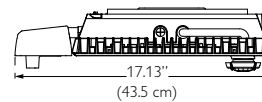
1 LED Array Top View



2 LED Array Top View



1 & 2 LED Array Front View



Standard mounting mounts to standard  
4" square or octagonal j-boxes

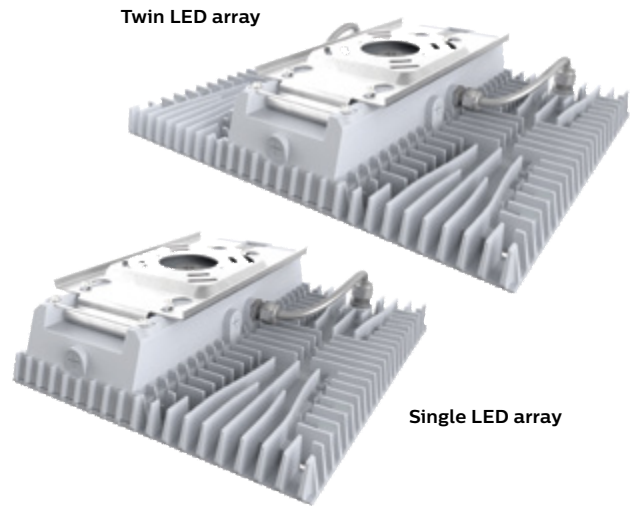
Approximate luminaire weight:  
11.25 Lbs (5.1 Kg)

## G3-RC Wireless control system

# G3 Ordering

## Description

The Philips Gardco G3 parking garage luminaire combines excellent performance with value, providing one of the most energy efficient lighting solutions for the energy and budget conscious. A complete selection of optical systems are available, including a concentrated downlight for use at entrances or at higher mounting heights. G3 luminaires are available with dimming, as well as motion response technology to expand potential energy savings. The G3 is also available with Wireless Lighting Control System.



## Ordering guide

Example: G3-5-32L-1000-NW-G2-UNV-MGY-QDM

Prefix	Controls	Distribution	LED Count	Drive Current	Color Temp - Generation	Voltage	Finish	Options
<b>G3</b>								
<b>G3</b> G3 LED Standard luminaire	- Standard Luminaire	<b>5</b> Type 5 Symmetrical	<b>16L</b> 16 LEDs	<b>400</b> 400 mA	<b>NW-G2</b> Neutral White 4000K, 70 CRI Generation 2	<b>120</b>	<b>MGY</b> Medium Gray (standard)  <b>BZ</b> Bronze  <b>BK</b> Black  <b>WH</b> White	<b>F1</b> Single Fuse (120, 277, 347V)
	<b>DIM</b> 0-10V Dimming	<b>5DL</b> Type 5 Diffuse Lens		<b>700</b> 700 mA		<b>208</b>		<b>F2</b> Double Fuse (208, 240, 277V)
	<b>MR</b> Motion Response	<b>3</b> Type 3 Asymmetrical		<b>1000</b> 1000 mA		<b>240</b>		<b>F3</b> Double Fuse Canadian double pull (208, 240, 480V)
	<b>MRCP</b> Motion Response Factory Programming	<b>1R</b> Type 1R Rectangular	<b>32L</b> 32 LEDs	<b>600</b> 600 mA	<b>CW-G2</b> Cool White 5700K, 70 CRI Generation 2	<b>277</b>		<b>PCB</b> Photocontrol Button
	<b>RC</b> Wireless controls	<b>CD</b> Concentrated Downlight		<b>800</b> 800 mA		<b>347</b>		<b>QDM</b> Driver Quick Disconnect Module
				<b>1000</b> 1000 mA		<b>480</b>		<b>BXS</b> Bird Excluding Shroud (factory installed, for Standard Surface Mount Only)
					<b>WW-G2</b> Warm White 3000K, 70 CRI Generation 2	<b>UNV</b> (120-277V)  <b>HVU</b> (347-480V)		

## Accessories (order separately)

### FSIR-100

MR hand held programmer (For use with 'MR' motion response when field programming is required). If desired, only one is needed per job.

### BX-16L and BX-32L

Bird Excluding Shroud (field installed, for use with PB-NP pendant mount). Choose for either 1 array 16L 16 LEDs or 2 array 32L 32 LEDs.

### PB-NP

Balanced J-box for Pendant Mount (field installed, Medium Gray paint).

Prior to ordering, consult specification sheets on [philips.com/luminaires](http://philips.com/luminaires) for the most current information, notes, and exclusions.

# G3 Specifications

## Housing

Modular die-cast driver housing with one to two die-cast LED array heatsink assemblies.

## LED Module

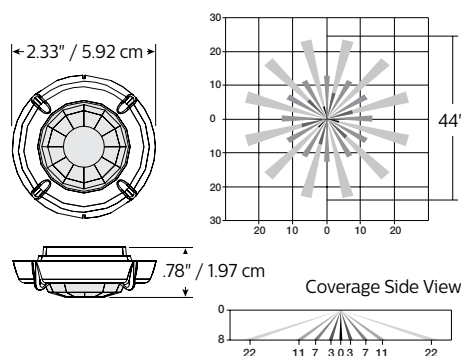
LED array of 16 or 32 high power LEDs. Metal core printed circuit board. LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines extrapolations in accordance with IESNA TM-21. IP66 sealed light engines designed and tested to rating IK10 in accordance with European standard EN 62262 (equivalent of international standard IEC 62262 2002). RoHS compliant. Color temperatures per ANSI/NEMA bin Warm White 3000K nominal (3045 +/- 175K), Neutral White 4000K nominal (3985 +/- 250K), or Cool White 5700K nominal (5667 +/- 355K). CRI 70 min.

## Motion Response luminaires

**Motion sensors:** G3-MR, G3-MRCP luminaires may be specified for additional energy savings during unoccupied periods.

G3-MR or G3-MRCP luminaires include a passive infrared (PIR) motion sensor (WattStopper® FSP-211 equipped with an FS-L2W lens) capable of detecting motion within 22 feet of the sensor, 360° around the luminaire, when placed at an 8 foot mounting height. Available from 120V to 277V input only. Motion sensor off state power is 0.0 watts.

In Motion Response (MR or MRCP) luminaires, when no motion is detected for 10 minutes, the Motion Response system reduces the wattage by 80%, to 20% (per RP-20) of the normal constant wattage, reducing the light level accordingly. When motion is detected by the PIR, the luminaire returns to full wattage and full light output. Dimming on low is factory set to 80% with duration set at 10 minutes.



## Mounting

A die formed 14 ga. galvanized steel plate is supplied for mounting to a recessed, surface, or rigid pendant hung 4" (10.16 cm) j-box (standard j-box and rigid pendant by others). An integral hanger tab on the plate supports the luminaire during wiring. All pendants, including rigid pendants and swivel pendants (utilized with the balanced j-box PB-NP option), are supplied by others.

**Caution:** Philips Gardco is not responsible for failure of mounting components supplied by others. Proper care should be exercised in mounting component selection to insure adequate luminaire support, given luminaire weight, vibration potential and thermal conditions present in the application. If luminaires are supported solely by screws into a composite j-box, additional support directly to structure is recommended. Failure to properly support the luminaire may cause damage or injury, for which Philips Gardco is not responsible.

## Controls

Motion Response luminaires (MR and MRCP) include a passive infrared (PIR) motion sensor (WattStopper FSP-211 equipped with an FS-L2W lens) capable of detecting motion within 22 feet of the sensor, 360° around the luminaire, when placed at an 8-12 foot mounting height. Available in 120V to 277V input only. Motion sensor off state power is 1 watt. In Motion Response luminaires, when no motion is detected for 10 minutes, the Motion Response system reduces the wattage by 80%, to 20% of the normal constant wattage per RP-20, reducing the light level accordingly. When motion is detected by the PIR, the luminaire returns to full wattage and full light output. Includes a daylight sensor which enables daylight harvesting. Wireless Remote Programming tool available (FSIR-100) for field programming (ordered separately).

Wireless controls (RC) also available, which combine the intelligence of motion and daylight sensing with wireless technology, allowing you to connect with your lighting system via the web.

## Electrical

Driver efficiency (>90% standard). 120-480V available (restrictions apply). Temp range: -40°C (-40°F) to +40°C (+104°F). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant. Surge protector standard and is in accordance with IEEE / ANSI C62.41.2 guidelines, with a surge current rating of 10kA.

## LED Thermal Management

The housing design provides thermal radiation fins in the upper housing to provide the excellent thermal management critical to long LED system life.

## Vibration Resistance

When 3G vibration rating that conforms to the standards set forth by ANSI C136.31 is required, contact Quotations for modified bracket (available upon request as an ETO).

## IP Rating

IP66 rated driver housing with dedicated IP66 rated LED modules. Motion response luminaire are rated IP65.

## Optical Systems

Type 5 symmetrical, Type 3 asymmetrical, Type 1R rectangular and CD concentrated downlight. Type 1R is designed to meet IES minimums with one luminaire per parking bay compared to the typical two per bay. Diffuse lens is available with Type 5 to limit perceived luminaire brightness, resulting in reduced performance.

## Energy saving benefits

System efficacy up to 132 lms/W with significant energy savings over HID systems less controls. Optional MR motion response sensor provides added energy savings during unoccupied periods and works as a 'Smart Luminaire' requiring no added wiring or commissioning at install.

## Listings

cULus Listed for Canada and USA. Entire luminaire is rated for operation in ambient temperatures from -40° (-40°F) to +40°C (+104°F). G3 luminaires are DesignLights Consortium qualified when ordered with CW or NW LED color temperature. WW option 400mA-800mA DesignLights Consortium qualified; WW option 1000mA does not meet DLC.

## Finish

Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard finish of all diecast assemblies shall be Medium Gray paint.

## Warranty

5 year limited warranty. See [philips.com/luminaires](http://philips.com/luminaires) for complete details and exclusions.

Prior to ordering, consult specification sheets on [philips.com/luminaires](http://philips.com/luminaires) for the most current information, notes, and exclusions. Philips Gardco reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.





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Philips Lighting  
North America Corporation  
200 Franklin Square Drive  
Somerset, NJ 08873  
Tel. 855-486-2216

Philips Lighting Canada Ltd.  
281 Hillmount Rd,  
Markham, ON,  
Canada L6C 2S3  
Tel. 800-668-9008