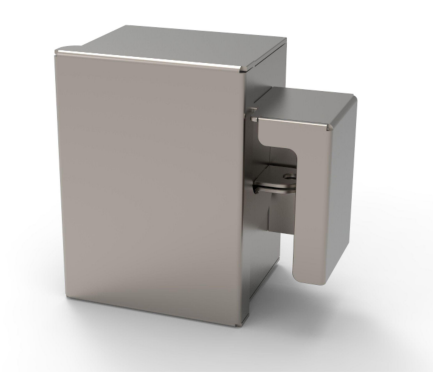
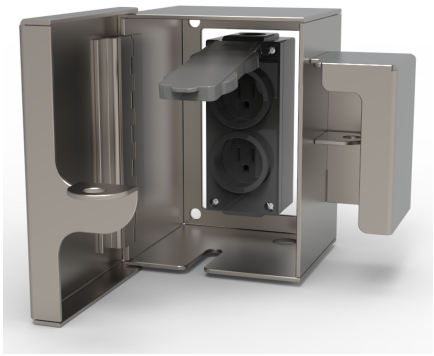
VANDAL STOP PRODUCTS by ATLAS AMERICAN

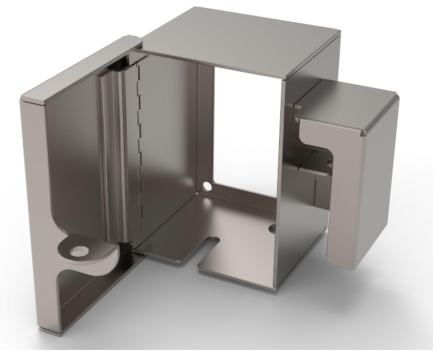
American Made
Veteran Owned
(530)-894-7867
sales@vandalstop.com

AA-EB-3R

Outdoor Electrical Outlet Security Box







Features:

- Vandal Resistant
- Spray and Drip Deflective
- Protective Shroud for Padlock
- Surface Mounted
- Fits most single-gang duplex receptacle boxes (not included)
- Corrosion Resistant
- Industry Leading Warranty against Vandalism
- Accommodates 1/2" and 3/4" conduit

Dimensions: 7 ⅞" x 7 ½" x 4 ¾" (WxHxD)

Material Options:

- 12-gauge 304L Stainless Steel
- 12-gauge 316L Stainless Steel

Model Names:

- AA-EB-3R-304L-12g
- AA-EB-3R-316L-12g

Finish: Stainless Steel Satin # 4 Finish

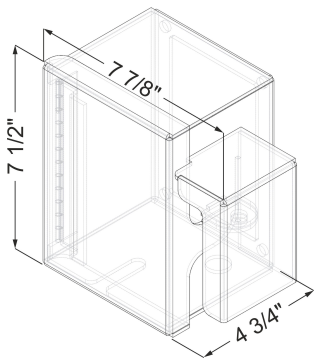
Mounting: 3/8" Surface Mounting Hole Placements

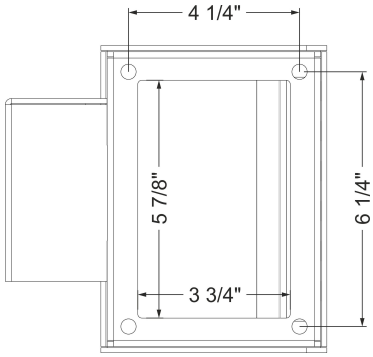
Capacity: Fits most single-gang duplex receptacle boxes (not included)

Installation: Secure fixture to wall with appropriate 3/8" stainless steel anchoring hardware for optimal installation strength (not provided). Recommend 3/4" or greater back bracing for walls. Partitions may require T-nuts or other suitable anchoring devices. When possible it is recommended that units be through bolted back to back providing optimal installation strength.

Guide Specification: Security Box shall be constructed with American made, 12 gauge 304L or 12 gauge 316L Stainless Steel joined /w TIG welds and edges de-burred. Security Box shall not be cross-metal contaminated during manufacturing construction. Security Box shall provide protective cover against drip and spray. Protective shroud adds security for padlock. Dispenser shall have 3/8" mounting holes. Security Box shall accommodate standard sprinkler timer styles. 316L SS shall be used for US Navy maritime use or if exposure to salt water is prevalent.

Warranty: See Website Product Page for Details.





MADE IN U.S.A. PRODUCT

www.vandalstop.com

Phone
(530) 894 7867

Vandal Stop Products by Atlas American LLC
1930 Village Center Circle #3-5871
Las Vegas, NV 89134

E-Mail
sales@vandalstop.com

PS4-11-10WT

Square steel poles with welded tenon included for use with floodlights. Designed for ground mounting. Poles are stocked nationwide for quick shipment. Protective packaging ensures poles arrive at the job site good as new.

Color: Bronze

Weight: 83.0 lbs

Project:	Type:
Prepared By:	Date:

Technical Specifications

Compliance

CSA Listed:

Suitable for wet locations

Construction

Shaft:

46,000 p.s.i. minimum yield.

Hand Holes:

Reinforced with grounding lug and removable cover

Base Plates:

Slotted base plates 36,000 p.s.i.

Shipping Protection:

All poles are shipped in individual corrugated cartons to prevent finish damage

Color:

Bronze powder coating

Tenon:

Welded 2 3/8" tenon included

Height:

10 FT

Gauge:

11

Wall Thickness:

1/8"

Shaft Size:

4"

Hand Hole Dimensions:

3" x 5"

Bolt Circle:

8 1/2"

Base Dimension:

8"

Technical Specifications (continued)

Construction

Weight:

101 lbs

Anchor Bolt:

Galvanized anchor bolts and galvanized hardware and anchor bolt template. All bolts have a 3" hook.

Anchor Bolt Templates:

WARNING Template must be printed on 11" x 17" sheet for actual size. CHECK SCALE BEFORE USING. Templates shipped with anchor bolts and available online.

Pre-Shipped Anchor Bolts:

Bolts can be pre-shipped upon request for additional freight charge

Max EPA's/Max Weights:

70MPH 28.8 ft./800 lb.
80MPH 21.6 ft./510lb.
90MPH 16.5 ft./510 lb.
100MPH 12.9 ft./510 lb.
110MPH 10.3 ft./500 lb.
120MPH 8.3 ft./495lb.
130MPH 6.7 ft./495 lb.
140MPH 5.5 ft./485 lb.
150MPH 4.5 ft./480 lb

Other

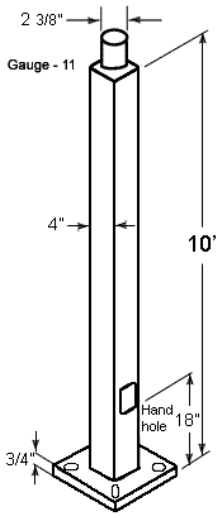
Terms of Sale:

Pole Terms of Sale is available online.

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Dimensions



Features

- Designed for ground mounting
- Heavy duty TGIC polyester coating
- Reinforced hand holes with grounding lug and removable cover for easy wiring access
- Pole caps, base covers & bolts are sold separately
- Custom manufactured for each application

ALED5T78

TYPE "SA" ALED-5T-78-N-USA

High output LED pole top area light with IES type V circular distribution. Wide and uniform 360 degree pattern ideal for large outdoor areas such as parking lots, corporate parks, and retail settings.

Color: Bronze

Weight: 23.0 lbs

Project:	Type:
Prepared By:	**Date:**

Driver Info

Type	Constant Current
120V	0.68A
208V	0.39A
240V	0.34A
277V	0.30A
Input Watts	80.4W

LED Info

Watts	78W
Color Temp	5000K (Cool)
Color Accuracy	70 CRI
L70 Lifespan	100,000 Hours
Lumens	9,530 lm
Efficacy	118.5 lm/W

Technical Specifications

Compliance

UL Listed:

Suitable for wet locations

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.
DLC Product Code: P6NGD9QB

LED Characteristics

LEDs:

6x13W high-output, long-life LEDs

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:

LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Performance

Lifespan:

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Construction

IP Rating:

Ingress protection rating of IP66 for dust and water

Cold Weather Starting:

The minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:

Suitable for use in up to 40°C (104°F)

Effective Projected Area:

EPA = 1.2

Housing:

Precision die-cast aluminum, Type V distribution

Support Arms:

Extruded aluminum

ALED5T78

Technical Specifications (continued)

Construction

Lens:

Clear tempered glass lens

Reflector:

Specular vacuum-metallized polycarbonate, Type V distribution

Gaskets:

High-temperature silicone

Finish:

Formulated for high durability and long-lasting color

Green Technology:

Mercury and UV free. RoHS-compliant components.

Optical

BUG Rating:

B3 U0 G2

Other

Equivalency:

Equivalent to 250W Metal Halide

Patents:

The designs of the ALED5T78 are protected by patents pending in US, Canada, China, Taiwan and Mexico

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Electrical

Drivers:

Constant Current, Class 2 with 6kV surge protection, 120-277VAC, 50/60 Hz, 120V: 0.68A, 208V: 0.39A, 240V: 0.34A, 277V: 0.30A

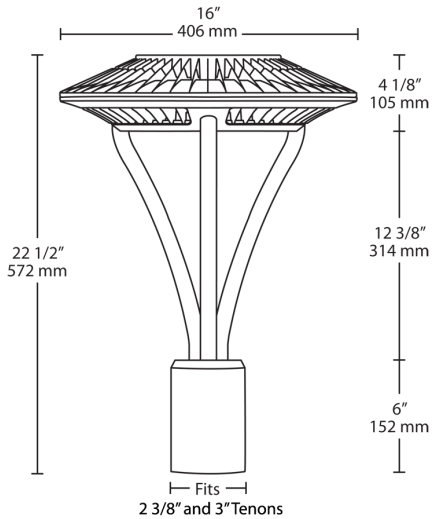
THD:

2.45% at 120V, 8.39% at 277V

Power Factor:

99.9% at 120V, 96.5% at 277V

Dimensions



Features

- IES type V (circular) distribution
- 100,000-hour LED lifespan
- Compatible with standard 2 3/8" and 3" tenons
- "Air-Flow" fins for maximum heat dissipation
- 5-Year, No-Compromise Warranty

ALED5T78

Ordering Matrix

Family	Distribution	Wattage	Color Temp	Finish	Driver Option	Options	Other Options
ALED	5T	78	N	-	-	-	
	5T = Type V	**26 =** 26W **52 =** 52W **78 =** 78W	**Blank =** 5000K Cool **N =** 4000K Neutral **Y =** 3000K Warm	**Blank =** Bronze **W =** White **K =** Black **RG =** Gray	**Blank =** 120-277V **/D10 =** Dimmable **/BL =** Bi-Level **/480 =** 480V **/480/D10 =** 480V w/ Dimmable	**Blank =** No Option **/LC =** Lightcloud® Controller **/PCT =** 120-277V Twistlock Photocell **/PCT4 =** 480V Twistlock Photocell	**Blank =** Standard **USA =** BAA Compliant

PHILIPS

GARDCO

Site & Area

Gullwing LED

Large, GL18

Project:

Location:

Cat.No:

Type: SB

Qty:

Notes:

Philips Gardco Gullwing LED luminaires combine LED performance excellence and advanced Gardco LED thermal management technology with the distinct Gullwing style to provide outdoor area lighting that is both energy efficient and aesthetically pleasing.

Ordering guide

Example: GL18-APD-1-4-80LA-4853-NW-120-BRP-LF

Prefix	Controls	Mounting	Optical System[6]	Wattage	LED Color	Voltage	Finish	Options
GL18	-	1	2	230LA-9680	NW	208	BLP	LF-IS-RPA2

GL18
18" Gullwing LED Luminaire Constant Wattage

GL18-RK
18" Gullwing LED Retrofit Kit

—
Gullwing Standard Luminaire

GL18-DIM
18" Gullwing LED with 0-10V Dimming

GL18-APD[1]
18" Gullwing LED with Automatic Profile Dimming

GL18-MR50[2,3,4]
18" Gullwing LED with Motion Response - 50% Low (pole mounted sensor)

GL18-APD-MRO[2,3,4]
18" Gullwing LED with APD with Motion Response Override (pole mounted sensor)

GL18-MRI[1,4]
13" Gullwing LED with Motion Response at 50% Low (luminaire mounted sensor)

GL18-APD-MRI[1,4]
13" Gullwing LED with APD with Motion Response Override (luminaire mounted sensor)

Wireless systems
(Remote wireless controller available.)

LLC2[1,4,5] #2 lens for 8' mounting heights
LLC3[1,4,5] #3 lens for 9-20' mounting heights
LLC4[1,4,5] #4 lens for 21-40' mounting heights

Network system (SiteWise)

SW Integral module[2,13]
SW-MRI3 luminaire mounted sensor option Type 3
SW-MRI7 luminaire mounted sensor option Type 7
SW-MRO pole mounted sensor option

1
Single

2
2 @ 180°

2@90
2 @ 90°

3
3@90°

3@120
3@120°

4
4@90°

W
Wall Mount, Recessed J-Box

WS
Wall Mount, Surface Conduit

2
Type 2

2-90
Type 2@90°

2-270
Type 2@270°

3
Type 3

3-90
Type 3@90°

3-270
Type 3@270°

4
Type 4

4-90
Type 4@90°

4-270
Type 4@270°

5
Type 5

50LA-4835
48 LEDs, 350mA

80LA-4853
48 LEDs, 530mA

105LA-4870
48 LEDs, 700mA

160LA-481A
48 LEDs, 1A

180LA-6490
64 LEDs, 900mA

210LA-641A
64 LEDs, 1A

200LA-9670
96 LEDs, 700mA

230LA-9680
96 LEDs, 800mA

265LA-9690
96 LEDs, 900 mA

310LA-961A
96 LEDs, 1A

NW
Neutral White 4000K, 70 min. CRI

CW
Cool White 5700K, 70 min. CRI

WW
Warm White 3000K, 70 min. CRI

120

208

240

277

347

480

UNV
(120-277V)

HVU
(347-480V)

BLP
Black Paint

WP
White Paint

BRP
Bronze Paint

NP
Natural Aluminum Paint

OC
Optional Color
Specify optional color or RAL ex: OC-LGP or OC-RAL7024.

SC
Special Color Specify.
Must supply color chip. Requires factory quote.

F[4] Fusing

LF[4] In-Line/In-Pole Fusing

PC[4,5,7] Photocontrol and Receptacle (Includes PCR5)

PCR5[4,5,7,8] Photocell Receptacle only with 2 dimming connections

PCR7[4,5,8,9] Photocell Receptacle only with 2 dimming and 2 auxiliary connections

HS External Houseside Shield

IS Internal Houseside Shield (types 2, 3, 4 only)

CLR[6] Clear Glass Lens (reduces performance)

RPA[1] 3" Round Pole Adapter
Required for 3" O.D. round or tapered round poles where top O.D. is less than 4"

RPA[2] 4" and 5" Round Pole Adapter
Required for 4"- 5" O.D. round poles

MA Mast Arm Fitter - Mounts to a 2-3/8" O.D. mast arm.

TR1[10] Single Transition

TR2[10] Twin Transition

PTF2[11] Pole Top Fitter
2 3/8" - 3" Dia. Tenon

PTF3[11] Pole Top Fitter
3" - 3 1/2" Dia. Tenon

PTF4[11] Pole Top Fitter
3 1/2" - 4" Dia. Tenon

SQPTF[12] Square Pole Fitter

1. Available **120-277V** only.
2. Available **120** or **277V** only.
3. **MR50** and **APD-MRO** luminaires require one motion sensor per pole, ordered separately. See page 2 for accessories.
4. Not available with Retrofit Kits (**GL18-RK**).
5. **LLC2**/**LLC3**/**LLC4**/**LLP** wireless system not configurable with **PC**/**PCR5**/**PCR7** Options. See pages 5-6 for more info.
6. Luminaire door frame and optic assembly provided standard without glass lens. Specify **CLR** option for clear glass lens.
7. Works with 3-pin or 5-pin NEMA photocell/dimming device.
8. If ordered with **DIM**, **APD**, **MRI**, **MR50**, **APD-MRI**, **APD-MRO**, dimming will not be connected to NEMA receptacle.
9. Works with 3-pin or 5-pin NEMA photocell/dimming device and auxiliary connections are not connected (for future use only).
10. Mounts to a 2-3/8" Top Tenon. Specify a round pole with a 4.50" O.D. for a smooth transition.
11. Not available in 120° mounting configurations.
12. Requires a 2-3/8"O.D. x 4" tenon or a 2.4" round pole top O.D. Specify Drilling (1, 2, 2@90, 3 or 4 only.)
13. **SW** option is not available with any other control options with the exception of **SW-MRI3**, **SW-MRI7** and **SW-MRO** motion response options.

GL18 Gullwing LED area luminaire, large

Accessories - Ordering guide (Must be ordered separately)

Motion Response

MS-P[1] 120V or 277V Input - Pedestrian Motion Sensor for GL18-MR (Motion Response) or GL18-APD-MRO (Automatic Profile Dimming with Motion Response Override)

MS-A-120V[2] 120V input - Motion Sensor for MR50 or MRO (pole mount only)

MS-A-277V[2] 120V input - Motion Sensor for MR50 or MRO (pole mount only)

Note: Motion Sensors are ordered separately, with one (1) motion sensor required per pole location for GL18-MR50 or GL18-APD-MRO luminaires. See Luminare Configuration Information on pages 4-5 for more details. Pedestrian sensor color is white. Area motion sensor color is Arctic White.

Wireless system[1,3,4,5]

LLCR2-(F) Standalone wall or pole wireless controller with #2 Lens.

LLCR3-(F) Standalone wall or pole wireless controller with #3 Lens.

LLCR4-(F) Standalone wall or pole wireless controller with #4 Lens.

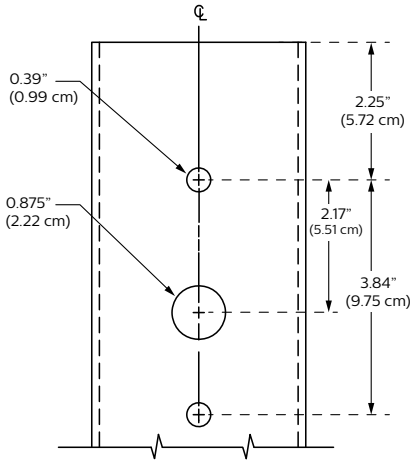
Central Remote Motion Response
(used connected to SiteWise main panel)

MS2-A-FVR-3

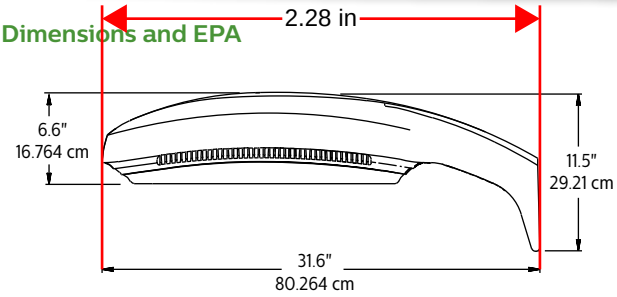
MS2-A-FVR-7

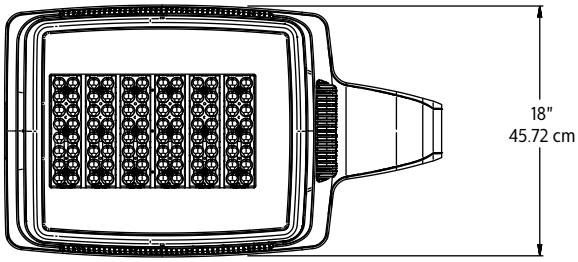
1. Available **120-277V** only.
2. Available **120** or **277V** only.
3. When using the wireless remote accessory option (**LLCR-F**) in a pole mount application, specify pole option (**CL**=Coupling Internal Thread, 3/4" size)
4. Must specify finish (**F**=Specify matching finish)
5. Luminaire configuration must include 0-10V Dimming **GL18-DIM** option when Wireless system accessories are specified

GL18 Drill Template



Dimensions and EPA



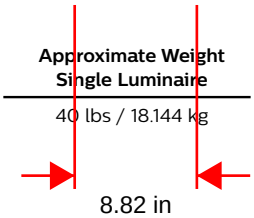


EPA Data

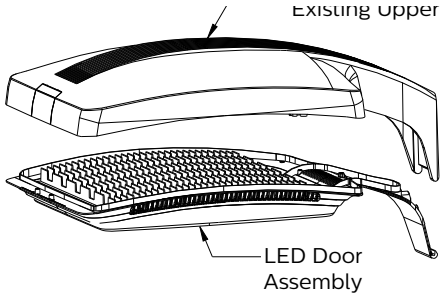
1	2	3-4
1.2 ft²	2.4 ft²	3.2 ft²
.12 m²	.24 m²	.30 m²

Approximate Weight Single Luminaire

40 lbs / 18.144 kg



GL18-RK LED Retrofit Kit



Note: Removal of all components of existing G18 Gullwing luminaires, except the upper housing, is required to perform a retrofit.

GL18-RK includes all necessary retrofit components.

Note: TGIC polyester powdercoat will fade somewhat in exterior environments over time. Once the retrofit kit is installed, there is a possibility that the upper housing may have faded to a point where there is a noticeable paint difference between the upper housing (existing) and the new retrofit kit door frame.

GL18 Gullwing LED area luminaire, large

Technical Data

Ordering Code	Total LEDs	LED Current (mA)	Average System Watts[15]	Color Temp.	Type 2			Type 3		
					Lumen Output[15,16]	Efficacy (LPW)	BUG Rating	Lumen Output[15,16]	Efficacy (LPW)	BUG Rating
50LA-4835	48	350	50	4000K	6207	124	B2-U0-G1	5710	109	B1-U0-G2
80LA-4853	48	530	80	4000K	8949	112	B2-U0-G1	8230	104	B2-U0-G2
105LA-4870	48	700	105	4000K	11,352	108	B3-U0-G2	10,446	98	B2-U0-G2
160LA-481A	48	1050	160	4000K	15,403	96	B3-U0-G2	14,159	88	B2-U0-G3
180LA-6490	64	900	180	4000K	17,788	99	B3-U0-G2	16,689	94	B3-U0-G3
210LA-641A	64	1050	208	4000K	19,964	96	B3-U0-G2	18,718	89	B3-U0-G3
200LA-9670	96	700	200	4000K	22,175	111	B3-U0-G2	20,296	100	B3-U0-G3
230LA-9680	96	800	230	4000K	24,492	106	B3-U0-G2	22,430	96	B3-U0-G4
265LA-9690	96	900	265	4000K	26,809	101	B4-U0-G2	24,543	93	B3-U0-G4
310LA-961A	96	1050	309	4000K	29,331	95	B4-U0-G3	26,843	87	B3-U0-G4

Ordering Code	Total LEDs	LED Current (mA)	Average System Watts[15]	Color Temp.	Type 4			Type 5		
					Lumen Output[15,16]	Efficacy (LPW)	BUG Rating	Lumen Output[15,16]	Efficacy (LPW)	BUG Rating
50LA-4835	48	350	50	4000K	5891	118	B1-U0-G2	6198	124	B3-U0-G1
80LA-4853	48	530	80	4000K	8494	106	B1-U0-G2	8935	112	B3-U0-G2
105LA-4870	48	700	105	4000K	10,774	103	B2-U0-G2	11,335	108	B4-U0-G2
160LA-481A	48	1050	160	4000K	14,619	91	B2-U0-G3	15,379	97	B4-U0-G2
180LA-6490	64	900	180	4000K	16,780	93	B2-U0-G3	17,967	100	B4-U0-G2
210LA-641A	64	1050	208	4000K	18,832	91	B3-U0-G3	20,165	94	B4-U0-G2
200LA-9670	96	700	200	4000K	20,700	103	B3-U0-G4	22,300	112	B5-U0-G3
230LA-9680	96	800	230	4000K	22,863	99	B3-U0-G4	24,630	107	B5-U0-G3
265LA-9690	96	900	265	4000K	25,026	94	B3-U0-G4	26,961	102	B5-U0-G3
310LA-961A	96	1050	309	4000K	27,380	89	B3-U0-G4	29,497	93	B5-U0-G3

15. Wattage may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input. Actual wattage may vary by an additional +/- 10% due to actual input voltage.
16. Values shown are for luminaires without the HS external shield option. Tests are in process for luminaires with the HS option and WW luminaires. Contact outdoorlighting.applications@philips.com if approximate estimates are required for design purposes.

Luminaire Configuration Information

GL18

Philips Gardco Gullwing LED standard luminaire providing constant wattage and constant light output when power to the luminaire is energized.

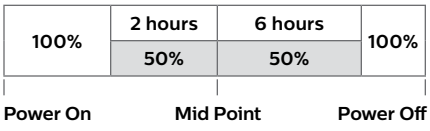
GL18-DIM

Philips Gardco Gullwing LED luminaire provided with 0 -10V dimming for connection to a control system provided by Philips or by others.

GL18-APD

Philips Gardco Gullwing LED luminaire with Automatic Profile Dimming. Luminaire is provided with a programmable LED Driver, programmed to go to 50% power, 50% light output two (2) hours prior to night time mid-point and remain at 50% for six (6) hours after night time mid-point. Mid-point is continuously recalculated by the programmable LED Driver based on the average mid-point of the last two full night cycles. Short duration cycles, and power interruptions are ignored and do not affect the determination of mid-point.

GL18-APD Dimming Profile:



The GL18-APD offers many of the advantages of a sophisticated control system, including an average energy savings of at least 33% versus constant wattage, constant light output systems, without the need for a control system.

GL18-MR50 (Pole Mounted Sensor)

Philips Gardco Gullwing LED luminaire with motion response, providing a 50% power reduction on low and a commensurate reduction in light output. The power and light output reduction is accomplished utilizing the Philips DynaDimmer module, programmed for a constant 50% power. Power supplied by the motion sensor connected to the override line on the DynaDimmer takes the luminaire to high setting, 100% power and light output, when motion is detected. The luminaire remains on high until no motion is detected for the motion sensor duration period, after which the luminaire returns to low. Duration period is factory set at 15 minutes, and is field adjustable from 5 minutes up to 15 minutes.

This configuration is not available for use with wall mounted luminaires.

GL18-MR50 is available in 120V through 277V input only to the luminaire. Motion sensors require single voltage 120V or 277V input.

GL18 Gullwing LED area luminaire, large

Luminaire Configuration Information (Continued)

GL18-APD-MRO (Pole Mounted Sensor)

Philips Gardco Gullwing LED luminaire with Automatic Profile Dimming, with Motion Response Override. The GL18-APD-MRO combines the benefits of both automatic profile dimming and motion response, using the Philips DynaDimmer module. The luminaire will dim to 50% power, 50% light output, per the dimming profile shown for the GL18-APD. If motion is detected during the time that the luminaire is operating at 50%, the luminaire returns to 100% power and light output. The luminaire remains on high until no motion is detected for the duration period, after which the luminaire returns to low. Duration period is factory set at 15 minutes, and is field adjustable from 5 minutes up to 15 minutes.

This configuration is not available for use with wall mounted luminaires.

Notes:

GL18-APD-MRO is available in 120V through 277V input only to luminaire. The motion sensor requires either 120V or 277V input to the motion sensor.

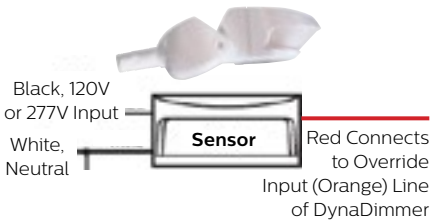
The GL18-APD-MRO has the same pole requirements and utilizes the same motion sensors as the GL18-MR50. The motion sensor

mounts and wires identically as well. The GL18APD-MRO utilizes the identical dimming profile as shown for the GL18-APD.

By combining the benefits of automatic profile dimming and motion response, the GL18-APD-MRO assures maximum energy savings, and insures that adequate light is present if motion is detected.

All motion sensors utilized consume 0.0 watts in the off state.

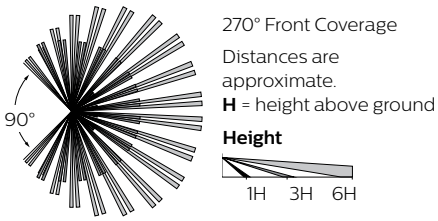
MS-A-120 or MS-A-277



The Area PIR motion sensor is the WattStopper EW-200-120-W (120V Input - MSA-120V) or the WattStopper EW-200-277-W (277V Input - MSA-277V.) One motion sensor per pole is required and is ordered separately. Area sensors require single voltage 120V or 277V input.

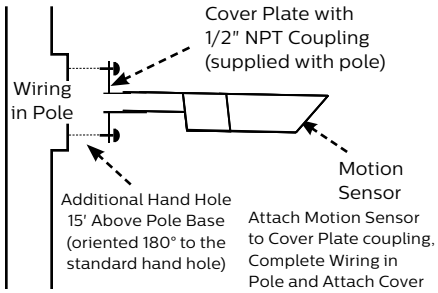
The area motion detector provides coverage equal to up to 6 times the sensor height above ground, 270° from the front-center of the sensor.

Area PIR Motion Sensor Coverage Pattern:

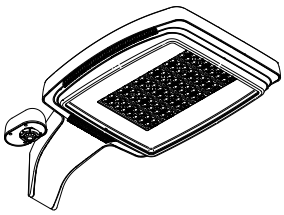


Motion response requires that the pole include an additional hand hole 15 feet above the pole base, normally oriented 180° to the standard hand hole. For Philips Gardco poles, order the pole with the Motion Sensor Mounting (MSM) option which includes the hand hole and a special hand hole cover plate for the sensor with a 1/2" NPT receptacle centered on the hand hole cover plate into which the motion sensor mounts. Once the motion sensor is connected to the hand hole cover plate, then wiring connections are completed in the pole. The plate (complete with motion sensor attached and wired) is then mounted to the hand hole. **If poles are supplied by others, the customer is responsible for providing suitable mounting accommodations for the motion sensor in the pole.**

Mounting to a Philips Gardco Pole:



GL18-MRI (Luminaire mounted sensor)

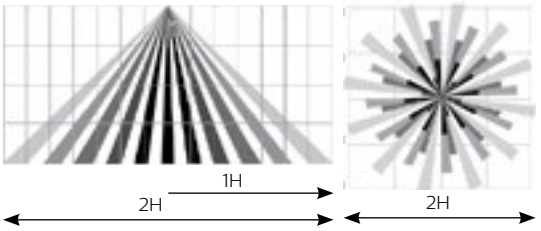


Luminaires with Motion Response and an integral motion sensor include a programmable LED driver and an outboarded programmable motion sensor attached to the luminaire arm. The motion sensor is set to a constant 50%. When motion is detected, the luminaire goes to 100%. The luminaire remains on high until no motion is detected for the motion sensor duration period, after which the luminaire returns to low. Duration period is factory set at 5 minutes. Available from 120V to 277V (UNIV) only.

Luminaires include a passive infrared (PIR) motion sensor, WattStopper FSP-211 equipped with an FSP-L3 lens, capable of detecting motion within 20 feet of the sensor, 180° around the luminaire, when placed at a 20 foot mounting height, or mounted on a wall. Available from 120V to 277V input only. Motion sensor off state power is 0.0 watts.

The approximate motion sensor coverage pattern is as shown below.

Side Coverage Pattern **Top Coverage Pattern**



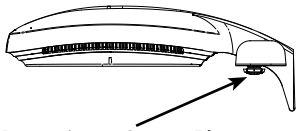
Distances are approximate.
H = height above ground

GL18-APD- MRI (Luminaire mounted sensor)

Luminaires with Integral Motion Sensor - GL18-APD- MRI: Luminaires with Automatic Profile Dimming and Motion Response Override combine the benefits of both automatic profile dimming and motion response. APD-MRI luminaires utilize a programmable LED driver. The luminaire will dim to 50% power, 50% light output, per the dimming profile shown for APD luminaires (see page 4). If motion is detected during the time that the luminaire is operating at 50%, the luminaire goes to 100% power and light output. The luminaire remains on high until no motion is detected for the duration period, after which the luminaire returns to low. Duration period is factory set at 15 minutes.

APD-MRI luminaires are available from 120V to 277V (UNIV) input voltages only.

APD-MRI luminaires use the identical motion sensor as MRI luminaires. See motion sensor details for GL18-MRI.



Approximate Sensor Placement on GL18-MRI and GL18-APD-MRI luminaires.

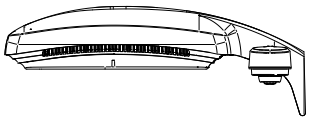
Sensor - Bottom View

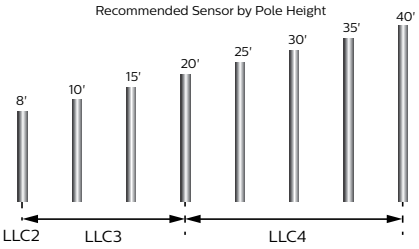
GL18 Gullwing LED area luminaire, large

Luminaire configuration information – Gullwing LED with wireless system

GL18-LLC2/3/4 Luminaire Mounted Controller

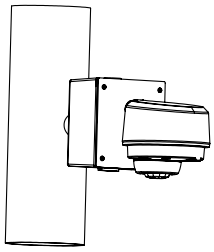
Wireless system attached to luminaire and Includes radio, photocell and motion sensor with #2, 3, or 4 lens for 8-40' mounting heights.





LLCR2/3/4 Pole Mounted Controller

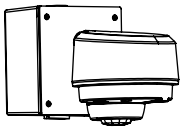
In this configuration, the wireless controller will be mounted to the pole at a fifteen foot mounting height. The number of luminaires on each pole, as well as the specific wattage chosen, will determine how many controllers will be required.



When using the wireless remote accessory option (LLCR-F) in a pole mount application, specify pole option (CL=Coupling Internal Thread, 3/4" size). Confirm required orientation of luminaire and wireless controller. Indicate height above pole base and orientation to handhold. Recommended min pole height is 18ft, with option (CL) 15ft above pole base. Other heights are possible when choosing the appropriate sensor lens type. See pole specification sheets for more information.

Remote Mount Wireless Controller

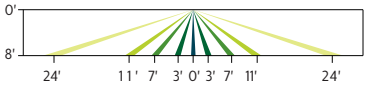
Used to extend the communication on site, to extend motion response and add other luminaires that are not pole mounted. Consult factory for more information.

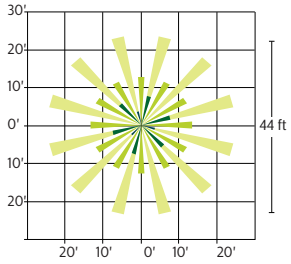


SW

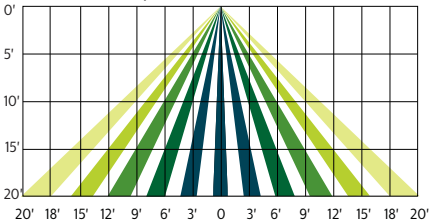
SiteWise option is a fully integrated controller that connects to Philips SiteWise system in order to offer a complete area lighting management system. The communication signal is based on Philips patented central dimming technology. SiteWise delivers it deliver optimal energy savings using your site's existing cabling. No additional wiring required, installation and commissioning are simple. An intuitive, mobile app makes it easy for authorized users to set schedules to meet site specific lighting needs, local regulations, and energy codes.

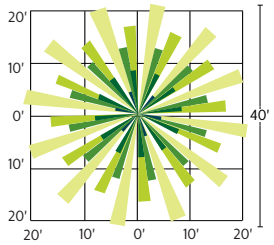
LLC2/LLCR2 (for pole or remote mount only)



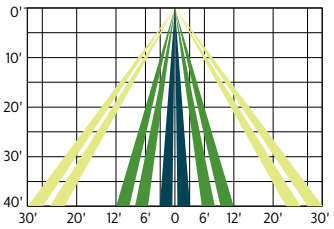


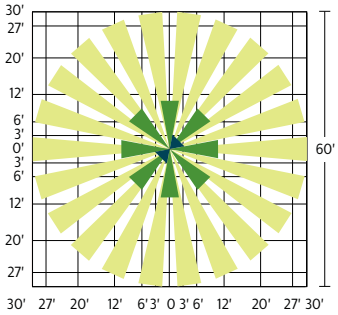
LLC3/LLCR3 (for luminaire, pole, or remote mount)



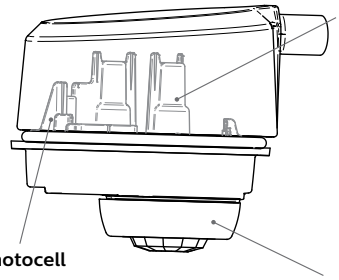


LLC4/LLCR4 (for luminaire, pole, or remote mount)





Controller



Photocell

- Ambient light photocell on every wireless radio that averages the light levels of up to 5 controllers for an accurate reading and optimal light harvesting activity.
- Reports ambient light readings to 1500 Fc.

Wireless Radio

- 1.8 Watts max (no load draw)
- Operating voltage 120-277 VAC RMS
- Communicates using the ZigBee protocol
- Carries out dimming commands from Gateway
- Reports ambient light readings to 1500 Ft-Cd
- Transmission Systems Operating within the band 2400-2483.5Mhz
- ROHS Compliant

Motion Response

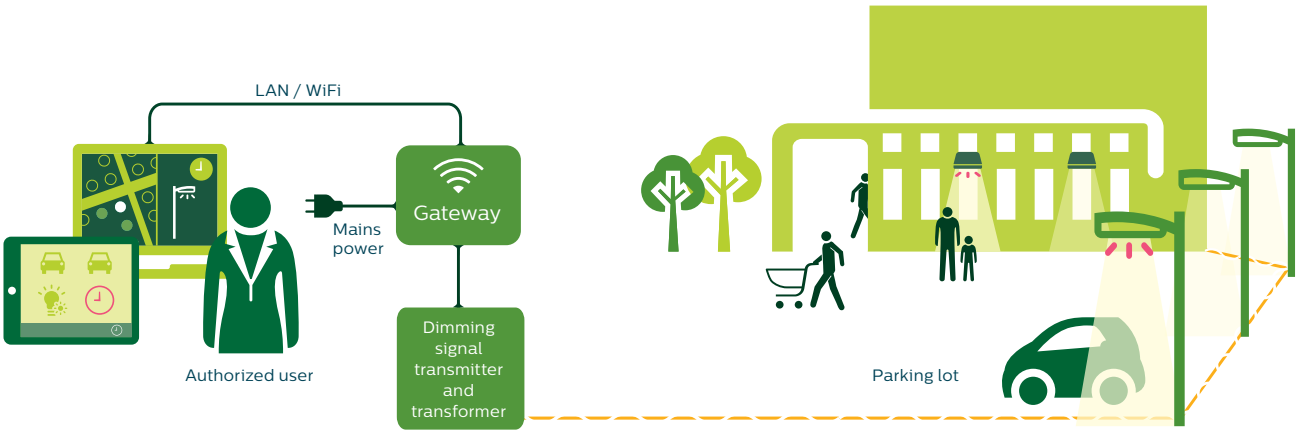
- Detects motion through passive infrared sensing technology with three different lens configurations
- Motion sensor coverage can be adjusted from a narrow to a wide detection range, which helps reduce false triggers to further increase energy savings.
- Sensing profiles can be updated to adapt to activity levels in the environment, such as occupancy level, wind, and mounting height

GL18 Gullwing LED area luminaire, large

SiteWise system

SiteWise is a complete area lighting management system including a luminaire integrated controller, dimming signal transmitter cabinet, and locally accessible user interface. Installation and commissioning are simple. The cabinet communicates with the Philips luminaires using a patented central dimming technology. The control signal is embedded on the existing electrical line – no new cabling is required. An intuitive, locally accessible interface makes it easy for authorized users to set schedules in order to meet site specific lighting needs, local regulations, and energy codes.

SiteWise system diagram



SiteWise system interface

SiteWise has an intuitive user interface that makes it easy to plan, edit, and implement lighting schedules for your site. Authorized users can access the interface via a local app.

To ensure that only authorized users can access your lighting, SiteWise offers two user types, each with different permissions. An advanced user, or administrator, can set and edit schedules using the ten pre-set scenes, assign those schedules to calendar days, and check system status.

For everyday use, a basic user can manually override a schedule that is currently running but cannot create or edit schedules.

SiteWise system specifications

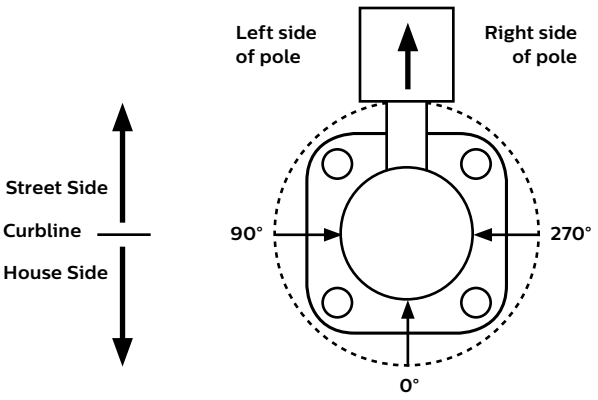
The SiteWise system includes both luminaires and controls. The controls used for SiteWise are circuit load dependent. Required for a complete installation are the following Philips SiteWise components: user interface, control kit, dimming signal transmitter cabinet, and dimming signal receiver located in the Philips luminaire (**SW** option). Optional luminaire-integrated or external motion sensors may also be specified as required. Within the electrical closet, the control kit and dimming signal transmitter cabinet are installed into the electrical system between the existing breaker panel and the site luminaires. New LED luminaires containing the dimming signal receiver are installed on the site. Once completed, use of the interface allows for scheduling and override capabilities. Wireless access point and tablet should be supplied by others. Complete information on the control system can be found on the SiteWise website at **philips.com/sitewise**

GL18 Gullwing LED area luminaire, large

Asymmetric Optical Orientation Information

Standard Optic Position

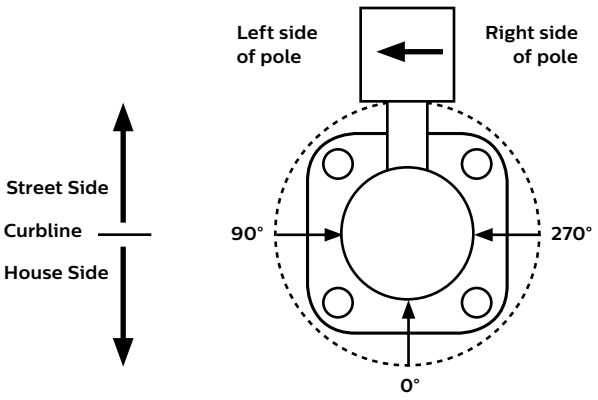
Luminaires ordered with asymmetric optical systems in the standard optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Left (90°) Optic Position

Luminaires ordered with asymmetric optical systems in the Optic Rotated Left (90°) optic position will have the optical system oriented as shown below:

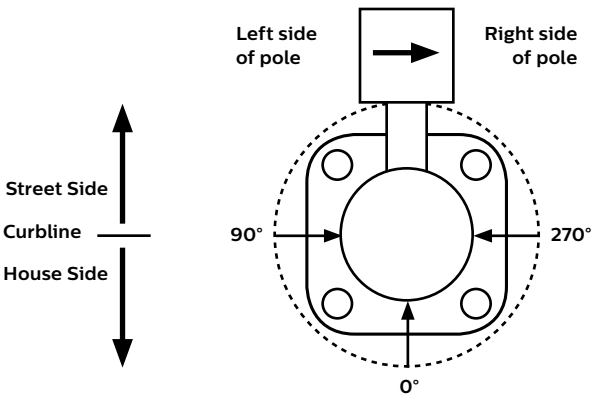


Note: The hand hole will normally be located on the pole at the 0° point.

Asymmetric Optical Orientation Information

Optic Rotated Right (270°) Optic Position:

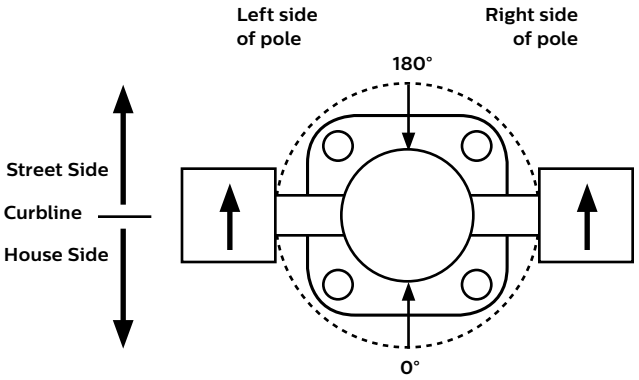
Luminaires ordered with asymmetric optical systems in the Optic Rotated Right (270°) optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

Twin Luminaire Assemblies With Rotated Optical Systems

Twin luminaire assemblies installed with rotated optical systems are an excellent way to direct light toward the interior of the site (Street Side) without additional equipment. It is important, however, that care be exercised to insure that luminaires are installed in the proper location.



Luminaires with Optic Rotated Right (270°) are installed on the LEFT Side of Pole

Luminaires with Optic Rotated Left (90°) are installed on the RIGHT Side of Pole

Note: The hand hole location will depend on the drilling configuration ordered for the pole.

GL18 Gullwing LED area luminaire, large

Specifications

General Description

The Philips Gardco Gullwing LED is defined by its high performance, sleek profile and rugged construction. Gullwing LED luminaires combine LED performance excellence and advanced Philips Gardco LED thermal management technology with the distinct Gullwing style to provide outdoor area lighting that is both energy efficient and aesthetically pleasing.

Housing

A one-piece die cast aluminum housing mounts directly to a pole or wall without the need for a support arm. The low profile rounded form reduces the effective projected area of the luminaire to only 1.2 ft2 /.12 m^2.

IP Rating

Gullwing LED 18" optics are IP66 rated.

Thermal Management

The Philips Gardco Gullwing LED provides a one piece die cast aluminum door with integral thermal radiation fins combined with lateral air ways, to provide the excellent thermal management so critical to long LED system life. GL18 is UL listed from -40 to 40°C ambient.

LED Optical System

LED arrays are set to achieve IES Type II, Type III, Type IV, Type V , available with internal shields for back light control. Type 2, 3, 4 optics can be factory set to 90 or 270° orientations. Individual LED arrays are replaceable. Luminaires feature high performance Class 1 LED systems.

SiteWise network system

SiteWise system includes a controller fully integrated in the luminaire that enables the luminaires to communicate with a dimming signal transmitter cabinet located on site using Philips patented central dimming technology. A locally accessible mobile app allows users to access the system and set functionalities such as ON/OFF, dimming levels and scheduling. SiteWise is available with motion response options in order to bring the light back to 100% when motion is detected. Additional functionalities are available such as communication with indoor lighting and connection to BMS systems.

Wireless system

Gullwing LED luminaires are available with optional wireless controllers ready to be connected to a Limelight system (sold by other). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely.

Based on a high density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution.

Electrical

Luminaires are equipped with an LED driver that accepts 120V through 277V, or 347V through 480V, 50hz to 60hz, input. Driver output is based on the LED wattage selected. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL. Power factor is not less than 90%. Luminaire consumes 0.0 watts in the off state. All motion sensors utilized consume 0.0 watts in the off state. Surge protector standard. 10KA per ANSI/IEEE C62.41.2.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BRP), black (BLP), white (WP), and natural aluminum (NP). Consult factory for specs on optional or custom colors.

Labels

All luminaires bear UL or CUL (where applicable) Wet Location labels. Gullwing LED GL18 luminaires, with the exception of the 310W in 3000K are certified by DesignLights Consortium.

Limited Warranty

5 year limited warranty. See philips.com/luminaires for complete details and exclusions.

LED Performance:

PREDICTED LUMEN DEPRECIATION DATA[17]				
Ambient Temperature °C	Driver mA	Calculated L_{70} Hours[17,18]	L_{70} Per TM-21[18,19]	Lumen Maintenance % @ 60,000 hours
25°C	up to 1050 mA	>100,000	>60,000	96%

17. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
18. L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output.
19. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours.

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

PHILIPS

GARDCO

Site & Area

Gullwing LED

Large, GL18

Project:

Location:

Cat.No:

Type: SB

Qty:

Notes:

Philips Gardco Gullwing LED luminaires combine LED performance excellence and advanced Gardco LED thermal management technology with the distinct Gullwing style to provide outdoor area lighting that is both energy efficient and aesthetically pleasing.

Ordering guide

Example: GL18-APD-1-4-80LA-4853-NW-120-BRP-LF

Prefix	Controls	Mounting	Optical System[6]	Wattage	LED Color	Voltage	Finish	Options
GL18	-	1	2	230LA-9680	NW	208	BLP	LF-IS-RPA2

Prefix

GL18
18" Gullwing LED Luminaire Constant Wattage

GL18-RK
18" Gullwing LED Retrofit Kit

Controls

—
Gullwing Standard Luminaire

GL18-DIM
18" Gullwing LED with 0-10V Dimming

GL18-APD[1]
18" Gullwing LED with Automatic Profile Dimming

GL18-MR50[2,3,4]
18" Gullwing LED with Motion Response - 50% Low (pole mounted sensor)

GL18-APD-MRO[2,3,4]
18" Gullwing LED with APD with Motion Response Override (pole mounted sensor)

GL18-MRI[1,4]
13" Gullwing LED with Motion Response at 50% Low (luminaire mounted sensor)

GL18-APD-MRI[1,4]
13" Gullwing LED with APD with Motion Response Override (luminaire mounted sensor)

Wireless systems
(Remote wireless controller available.)

LLC2[1,4,5] #2 lens for 8' mounting heights
LLC3[1,4,5] #3 lens for 9-20' mounting heights
LLC4[1,4,5] #4 lens for 21-40' mounting heights

Network system (SiteWise)

SW Integral module[2,13]
SW-MRI3 luminaire mounted sensor option Type 3
SW-MRI7 luminaire mounted sensor option Type 7
SW-MRO pole mounted sensor option

Mounting

1
Single

2
2 @ 180°

2@90
2 @ 90°

3
3@90°

3@120
3@120°

4
4@90°

W
Wall Mount, Recessed J-Box

WS
Wall Mount, Surface Conduit

Optical System[6]

2
Type 2

2-90
Type 2@90°

2-270
Type 2@270°

3
Type 3

3-90
Type 3@90°

3-270
Type 3@270°

4
Type 4

4-90
Type 4@90°

4-270
Type 4@270°

5
Type 5

Wattage

50LA-4835
48 LEDs, 350mA

80LA-4853
48 LEDs, 530mA

105LA-4870
48 LEDs, 700mA

160LA-481A
48 LEDs, 1A

180LA-6490
64 LEDs, 900mA

210LA-641A
64 LEDs, 1A

200LA-9670
96 LEDs, 700mA

230LA-9680
96 LEDs, 800mA

265LA-9690
96 LEDs, 900 mA

310LA-961A
96 LEDs, 1A

LED Color

NW
Neutral White 4000K, 70 min. CRI

CW
Cool White 5700K, 70 min. CRI

WW
Warm White 3000K, 70 min. CRI

Voltage

120

208

240

277

347

480

UNV
(120-277V)

HVU
(347-480V)

Finish

BLP
Black Paint

WP
White Paint

BRP
Bronze Paint

NP
Natural Aluminum Paint

OC
Optional Color
Specify optional color or RAL ex: OC-LGP or OC-RAL7024.

SC
Special Color Specify.
Must supply color chip. Requires factory quote.

Options

F[4] Fusing

LF[4] In-Line/In-Pole Fusing

PC[4,5,7] Photocontrol and Receptacle (Includes PCR5)

PCR5[4,5,7,8] Photocell Receptacle only with 2 dimming connections

PCR7[4,5,8,9] Photocell Receptacle only with 2 dimming and 2 auxiliary connections

HS External Houseside Shield

IS Internal Houseside Shield (types 2, 3, 4 only)

CLR[6] Clear Glass Lens (reduces performance)

RPA[1] 3" Round Pole Adapter
Required for 3" O.D. round or tapered round poles where top O.D. is less than 4"

RPA[2] 4" and 5" Round Pole Adapter
Required for 4"- 5" O.D. round poles

MA Mast Arm Fitter - Mounts to a 2-3/8" O.D. mast arm.

TR1[10] Single Transition

TR2[10] Twin Transition

PTF2[11] Pole Top Fitter
2 3/8" - 3" Dia. Tenon

PTF3[11] Pole Top Fitter
3" - 3 1/2" Dia. Tenon

PTF4[11] Pole Top Fitter
3 1/2" - 4" Dia. Tenon

SQPTF[12] Square Pole Fitter

1. Available **120-277V** only.
2. Available **120** or **277V** only.
3. **MR50** and **APD-MRO** luminaires require one motion sensor per pole, ordered separately. See page 2 for accessories.
4. Not available with Retrofit Kits (**GL18-RK**).
5. **LLC2**/**LLC3**/**LLC4**/**LLP** wireless system not configurable with **PC**/**PCR5**/**PCR7** Options. See pages 5-6 for more info.
6. Luminaire door frame and optic assembly provided standard without glass lens. Specify **CLR** option for clear glass lens.
7. Works with 3-pin or 5-pin NEMA photocell/dimming device.
8. If ordered with **DIM**, **APD**, **MRI**, **MR50**, **APD-MRI**, **APD-MRO**, dimming will not be connected to NEMA receptacle.
9. Works with 3-pin or 5-pin NEMA photocell/dimming device and auxiliary connections are not connected (for future use only).
10. Mounts to a 2-3/8" Top Tenon. Specify a round pole with a 4.50" O.D. for a smooth transition.
11. Not available in 120° mounting configurations.
12. Requires a 2-3/8"O.D. x 4" tenon or a 2.4" round pole top O.D. Specify Drilling (1, 2, 2@90, 3 or 4 only.)
13. **SW** option is not available with any other control options with the exception of **SW-MRI3**, **SW-MRI7** and **SW-MRO** motion response options.

GL18 Gullwing LED area luminaire, large

Accessories - Ordering guide (Must be ordered separately)

Motion Response

MS-P[1] 120V or 277V Input - Pedestrian Motion Sensor for GL18-MR (Motion Response) or GL18-APD-MRO (Automatic Profile Dimming with Motion Response Override)

MS-A-120V[2] 120V input - Motion Sensor for MR50 or MRO (pole mount only)

MS-A-277V[2] 120V input - Motion Sensor for MR50 or MRO (pole mount only)

Note: Motion Sensors are ordered separately, with one (1) motion sensor required per pole location for GL18-MR50 or GL18-APD-MRO luminaires. See Luminare Configuration Information on pages 4-5 for more details. Pedestrian sensor color is white. Area motion sensor color is Arctic White.

Wireless system[1,3,4,5]

LLCR2-(F) Standalone wall or pole wireless controller with #2 Lens.

LLCR3-(F) Standalone wall or pole wireless controller with #3 Lens.

LLCR4-(F) Standalone wall or pole wireless controller with #4 Lens.

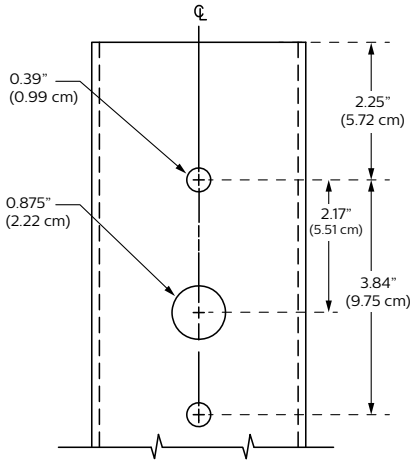
Central Remote Motion Response
(used connected to SiteWise main panel)

MS2-A-FVR-3

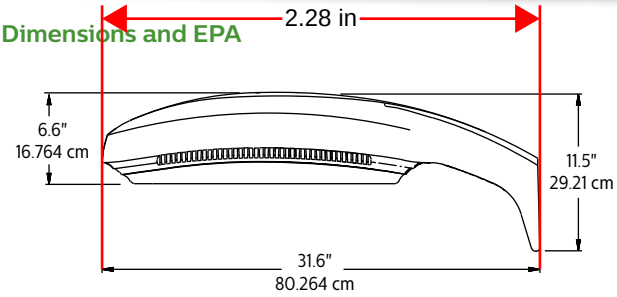
MS2-A-FVR-7

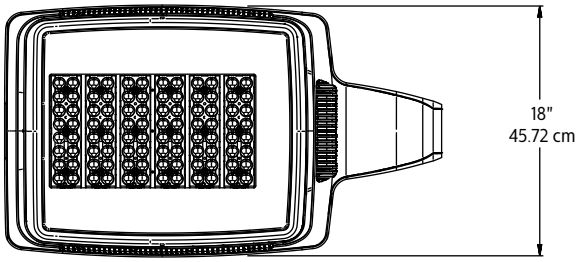
1. Available **120-277V** only.
2. Available **120** or **277V** only.
3. When using the wireless remote accessory option (**LLCR-F**) in a pole mount application, specify pole option (**CL**=Coupling Internal Thread, 3/4" size)
4. Must specify finish (**F**=Specify matching finish)
5. Luminaire configuration must include 0-10V Dimming **GL18-DIM** option when Wireless system accessories are specified

GL18 Drill Template



Dimensions and EPA



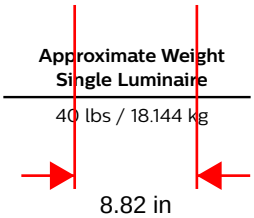


EPA Data

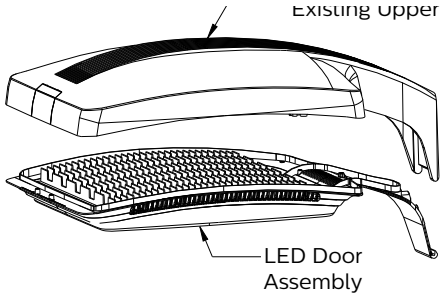
1	2	3-4
1.2 ft²	2.4 ft²	3.2 ft²
.12 m²	.24 m²	.30 m²

Approximate Weight Single Luminaire

40 lbs / 18.144 kg



GL18-RK LED Retrofit Kit



Note: Removal of all components of existing G18 Gullwing luminaires, except the upper housing, is required to perform a retrofit.

GL18-RK includes all necessary retrofit components.

Note: TGIC polyester powdercoat will fade somewhat in exterior environments over time. Once the retrofit kit is installed, there is a possibility that the upper housing may have faded to a point where there is a noticeable paint difference between the upper housing (existing) and the new retrofit kit door frame.

GL18 Gullwing LED area luminaire, large

Technical Data

Ordering Code	Total LEDs	LED Current (mA)	Average System Watts[15]	Color Temp.	Type 2			Type 3		
					Lumen Output[15,16]	Efficacy (LPW)	BUG Rating	Lumen Output[15,16]	Efficacy (LPW)	BUG Rating
50LA-4835	48	350	50	4000K	6207	124	B2-U0-G1	5710	109	B1-U0-G2
80LA-4853	48	530	80	4000K	8949	112	B2-U0-G1	8230	104	B2-U0-G2
105LA-4870	48	700	105	4000K	11,352	108	B3-U0-G2	10,446	98	B2-U0-G2
160LA-481A	48	1050	160	4000K	15,403	96	B3-U0-G2	14,159	88	B2-U0-G3
180LA-6490	64	900	180	4000K	17,788	99	B3-U0-G2	16,689	94	B3-U0-G3
210LA-641A	64	1050	208	4000K	19,964	96	B3-U0-G2	18,718	89	B3-U0-G3
200LA-9670	96	700	200	4000K	22,175	111	B3-U0-G2	20,296	100	B3-U0-G3
230LA-9680	96	800	230	4000K	24,492	106	B3-U0-G2	22,430	96	B3-U0-G4
265LA-9690	96	900	265	4000K	26,809	101	B4-U0-G2	24,543	93	B3-U0-G4
310LA-961A	96	1050	309	4000K	29,331	95	B4-U0-G3	26,843	87	B3-U0-G4

Ordering Code	Total LEDs	LED Current (mA)	Average System Watts[15]	Color Temp.	Type 4			Type 5		
					Lumen Output[15,16]	Efficacy (LPW)	BUG Rating	Lumen Output[15,16]	Efficacy (LPW)	BUG Rating
50LA-4835	48	350	50	4000K	5891	118	B1-U0-G2	6198	124	B3-U0-G1
80LA-4853	48	530	80	4000K	8494	106	B1-U0-G2	8935	112	B3-U0-G2
105LA-4870	48	700	105	4000K	10,774	103	B2-U0-G2	11,335	108	B4-U0-G2
160LA-481A	48	1050	160	4000K	14,619	91	B2-U0-G3	15,379	97	B4-U0-G2
180LA-6490	64	900	180	4000K	16,780	93	B2-U0-G3	17,967	100	B4-U0-G2
210LA-641A	64	1050	208	4000K	18,832	91	B3-U0-G3	20,165	94	B4-U0-G2
200LA-9670	96	700	200	4000K	20,700	103	B3-U0-G4	22,300	112	B5-U0-G3
230LA-9680	96	800	230	4000K	22,863	99	B3-U0-G4	24,630	107	B5-U0-G3
265LA-9690	96	900	265	4000K	25,026	94	B3-U0-G4	26,961	102	B5-U0-G3
310LA-961A	96	1050	309	4000K	27,380	89	B3-U0-G4	29,497	93	B5-U0-G3

15. Wattage may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input. Actual wattage may vary by an additional +/- 10% due to actual input voltage.
16. Values shown are for luminaires without the HS external shield option. Tests are in process for luminaires with the HS option and WW luminaires. Contact outdoorlighting.applications@philips.com if approximate estimates are required for design purposes.

Luminaire Configuration Information

GL18

Philips Gardco Gullwing LED standard luminaire providing constant wattage and constant light output when power to the luminaire is energized.

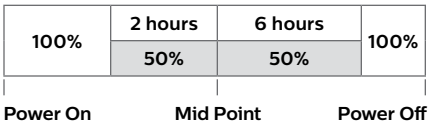
GL18-DIM

Philips Gardco Gullwing LED luminaire provided with 0 -10V dimming for connection to a control system provided by Philips or by others.

GL18-APD

Philips Gardco Gullwing LED luminaire with Automatic Profile Dimming. Luminaire is provided with a programmable LED Driver, programmed to go to 50% power, 50% light output two (2) hours prior to night time mid-point and remain at 50% for six (6) hours after night time mid-point. Mid-point is continuously recalculated by the programmable LED Driver based on the average mid-point of the last two full night cycles. Short duration cycles, and power interruptions are ignored and do not affect the determination of mid-point.

GL18-APD Dimming Profile:



The GL18-APD offers many of the advantages of a sophisticated control system, including an average energy savings of at least 33% versus constant wattage, constant light output systems, without the need for a control system.

GL18-MR50 (Pole Mounted Sensor)

Philips Gardco Gullwing LED luminaire with motion response, providing a 50% power reduction on low and a commensurate reduction in light output. The power and light output reduction is accomplished utilizing the Philips DynaDimmer module, programmed for a constant 50% power. Power supplied by the motion sensor connected to the override line on the DynaDimmer takes the luminaire to high setting, 100% power and light output, when motion is detected. The luminaire remains on high until no motion is detected for the motion sensor duration period, after which the luminaire returns to low. Duration period is factory set at 15 minutes, and is field adjustable from 5 minutes up to 15 minutes.

This configuration is not available for use with wall mounted luminaires.

GL18-MR50 is available in 120V through 277V input only to the luminaire. Motion sensors require single voltage 120V or 277V input.

GL18 Gullwing LED area luminaire, large

Luminaire Configuration Information (Continued)

GL18-APD-MRO (Pole Mounted Sensor)

Philips Gardco Gullwing LED luminaire with Automatic Profile Dimming, with Motion Response Override. The GL18-APD-MRO combines the benefits of both automatic profile dimming and motion response, using the Philips DynaDimmer module. The luminaire will dim to 50% power, 50% light output, per the dimming profile shown for the GL18-APD. If motion is detected during the time that the luminaire is operating at 50%, the luminaire returns to 100% power and light output. The luminaire remains on high until no motion is detected for the duration period, after which the luminaire returns to low. Duration period is factory set at 15 minutes, and is field adjustable from 5 minutes up to 15 minutes.

This configuration is not available for use with wall mounted luminaires.

Notes:

GL18-APD-MRO is available in 120V through 277V input only to luminaire. The motion sensor requires either 120V or 277V input to the motion sensor.

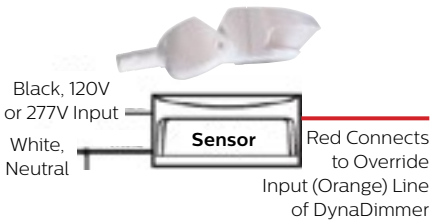
The GL18-APD-MRO has the same pole requirements and utilizes the same motion sensors as the GL18-MR50. The motion sensor

mounts and wires identically as well. The GL18APD-MRO utilizes the identical dimming profile as shown for the GL18-APD.

By combining the benefits of automatic profile dimming and motion response, the GL18-APD-MRO assures maximum energy savings, and insures that adequate light is present if motion is detected.

All motion sensors utilized consume 0.0 watts in the off state.

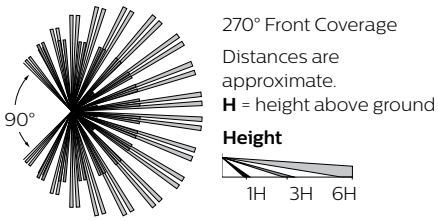
MS-A-120 or MS-A-277



The Area PIR motion sensor is the WattStopper EW-200-120-W (120V Input - MSA-120V) or the WattStopper EW-200-277-W (277V Input - MSA-277V.) One motion sensor per pole is required and is ordered separately. Area sensors require single voltage 120V or 277V input.

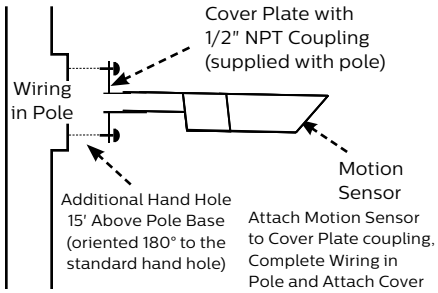
The area motion detector provides coverage equal to up to 6 times the sensor height above ground, 270° from the front-center of the sensor.

Area PIR Motion Sensor Coverage Pattern:

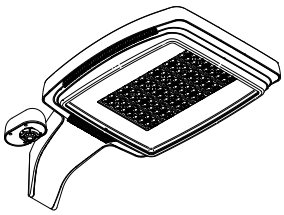


Motion response requires that the pole include an additional hand hole 15 feet above the pole base, normally oriented 180° to the standard hand hole. For Philips Gardco poles, order the pole with the Motion Sensor Mounting (MSM) option which includes the hand hole and a special hand hole cover plate for the sensor with a 1/2" NPT receptacle centered on the hand hole cover plate into which the motion sensor mounts. Once the motion sensor is connected to the hand hole cover plate, then wiring connections are completed in the pole. The plate (complete with motion sensor attached and wired) is then mounted to the hand hole. **If poles are supplied by others, the customer is responsible for providing suitable mounting accommodations for the motion sensor in the pole.**

Mounting to a Philips Gardco Pole:



GL18-MRI (Luminaire mounted sensor)

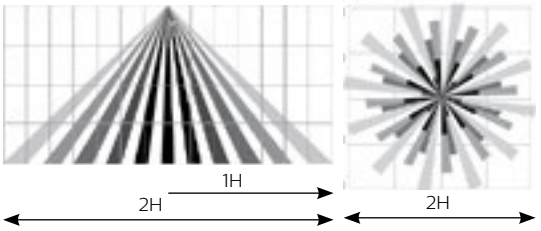


Luminaires with Motion Response and an integral motion sensor include a programmable LED driver and an outboarded programmable motion sensor attached to the luminaire arm. The motion sensor is set to a constant 50%. When motion is detected, the luminaire goes to 100%. The luminaire remains on high until no motion is detected for the motion sensor duration period, after which the luminaire returns to low. Duration period is factory set at 5 minutes. Available from 120V to 277V (UNIV) only.

Luminaires include a passive infrared (PIR) motion sensor, WattStopper FSP-211 equipped with an FSP-L3 lens, capable of detecting motion within 20 feet of the sensor, 180° around the luminaire, when placed at a 20 foot mounting height, or mounted on a wall. Available from 120V to 277V input only. Motion sensor off state power is 0.0 watts.

The approximate motion sensor coverage pattern is as shown below.

Side Coverage Pattern **Top Coverage Pattern**



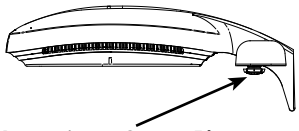
Distances are approximate.
H = height above ground

GL18-APD- MRI (Luminaire mounted sensor)

Luminaires with Integral Motion Sensor - GL18-APD- MRI: Luminaires with Automatic Profile Dimming and Motion Response Override combine the benefits of both automatic profile dimming and motion response. APD-MRI luminaires utilize a programmable LED driver. The luminaire will dim to 50% power, 50% light output, per the dimming profile shown for APD luminaires (see page 4). If motion is detected during the time that the luminaire is operating at 50%, the luminaire goes to 100% power and light output. The luminaire remains on high until no motion is detected for the duration period, after which the luminaire returns to low. Duration period is factory set at 15 minutes.

APD-MRI luminaires are available from 120V to 277V (UNIV) input voltages only.

APD-MRI luminaires use the identical motion sensor as MRI luminaires. See motion sensor details for GL18-MRI.



Approximate Sensor Placement on GL18-MRI and GL18-APD-MRI luminaires.

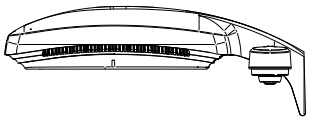
Sensor - Bottom View

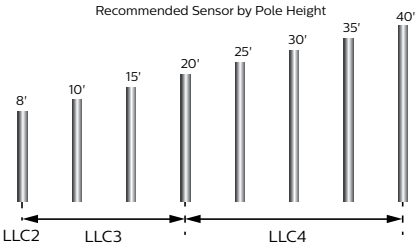
GL18 Gullwing LED area luminaire, large

Luminaire configuration information – Gullwing LED with wireless system

GL18-LLC2/3/4 Luminaire Mounted Controller

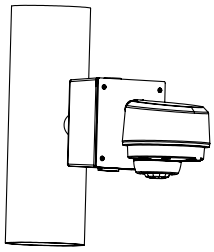
Wireless system attached to luminaire and Includes radio, photocell and motion sensor with #2, 3, or 4 lens for 8-40' mounting heights.





LLCR2/3/4 Pole Mounted Controller

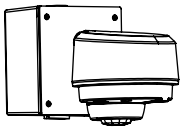
In this configuration, the wireless controller will be mounted to the pole at a fifteen foot mounting height. The number of luminaires on each pole, as well as the specific wattage chosen, will determine how many controllers will be required.



When using the wireless remote accessory option (LLCR-F) in a pole mount application, specify pole option (CL=Coupling Internal Thread, 3/4" size). Confirm required orientation of luminaire and wireless controller. Indicate height above pole base and orientation to handhold. Recommended min pole height is 18ft, with option (CL) 15ft above pole base. Other heights are possible when choosing the appropriate sensor lens type. See pole specification sheets for more information.

Remote Mount Wireless Controller

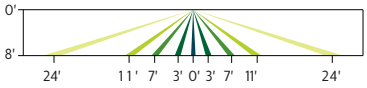
Used to extend the communication on site, to extend motion response and add other luminaires that are not pole mounted. Consult factory for more information.

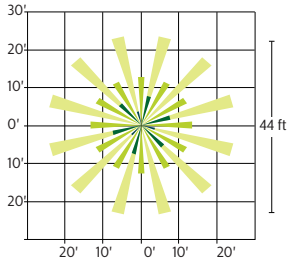


SW

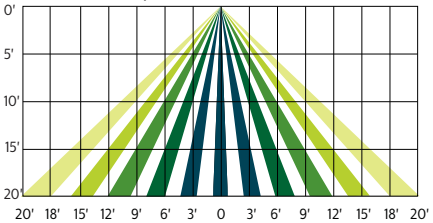
SiteWise option is a fully integrated controller that connects to Philips SiteWise system in order to offer a complete area lighting management system. The communication signal is based on Philips patented central dimming technology. SiteWise delivers it deliver optimal energy savings using your site's existing cabling. No additional wiring required, installation and commissioning are simple. An intuitive, mobile app makes it easy for authorized users to set schedules to meet site specific lighting needs, local regulations, and energy codes.

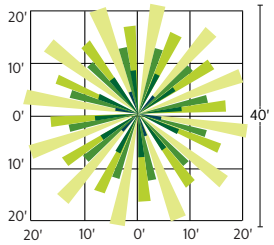
LLC2/LLCR2 (for pole or remote mount only)



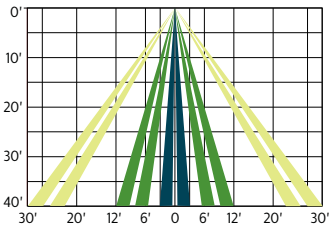


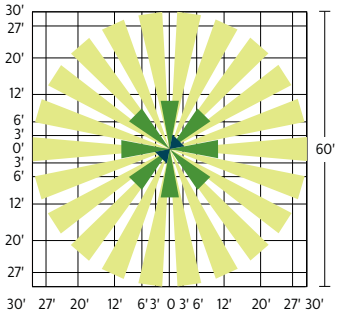
LLC3/LLCR3 (for luminaire, pole, or remote mount)



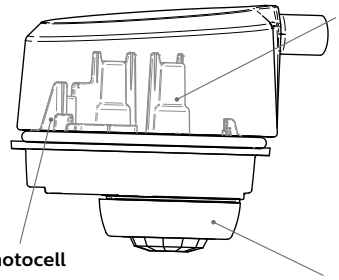


LLC4/LLCR4 (for luminaire, pole, or remote mount)





Controller



Photocell

- Ambient light photocell on every wireless radio that averages the light levels of up to 5 controllers for an accurate reading and optimal light harvesting activity.
- Reports ambient light readings to 1500 Fc.

Wireless Radio

- 1.8 Watts max (no load draw)
- Operating voltage 120-277 VAC RMS
- Communicates using the ZigBee protocol
- Carries out dimming commands from Gateway
- Reports ambient light readings to 1500 Ft-Cd
- Transmission Systems Operating within the band 2400-2483.5Mhz
- ROHS Compliant

Motion Response

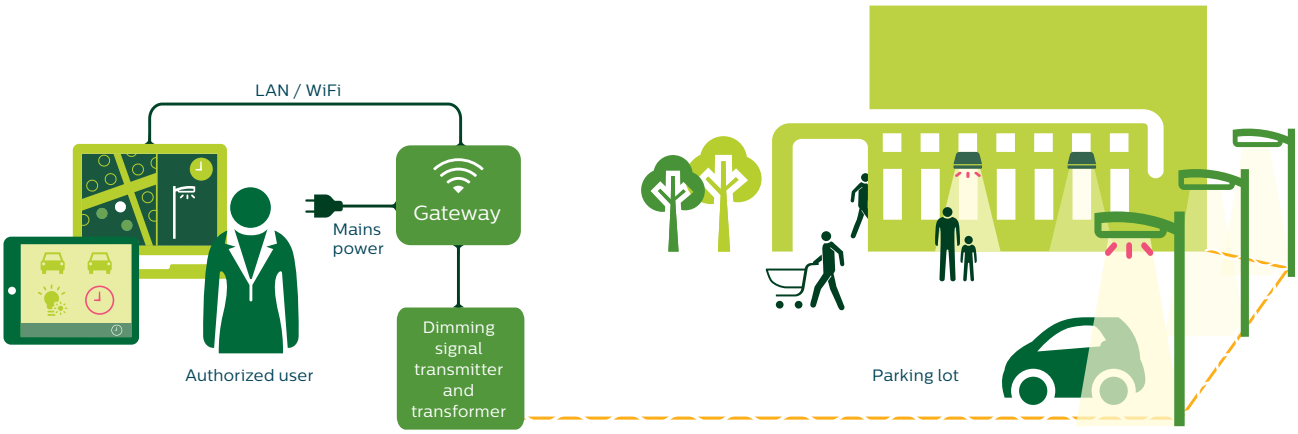
- Detects motion through passive infrared sensing technology with three different lens configurations
- Motion sensor coverage can be adjusted from a narrow to a wide detection range, which helps reduce false triggers to further increase energy savings.
- Sensing profiles can be updated to adapt to activity levels in the environment, such as occupancy level, wind, and mounting height

GL18 Gullwing LED area luminaire, large

SiteWise system

SiteWise is a complete area lighting management system including a luminaire integrated controller, dimming signal transmitter cabinet, and locally accessible user interface. Installation and commissioning are simple. The cabinet communicates with the Philips luminaires using a patented central dimming technology. The control signal is embedded on the existing electrical line – no new cabling is required. An intuitive, locally accessible interface makes it easy for authorized users to set schedules in order to meet site specific lighting needs, local regulations, and energy codes.

SiteWise system diagram



SiteWise system interface

SiteWise has an intuitive user interface that makes it easy to plan, edit, and implement lighting schedules for your site. Authorized users can access the interface via a local app.

To ensure that only authorized users can access your lighting, SiteWise offers two user types, each with different permissions. An advanced user, or administrator, can set and edit schedules using the ten pre-set scenes, assign those schedules to calendar days, and check system status.

For everyday use, a basic user can manually override a schedule that is currently running but cannot create or edit schedules.

SiteWise system specifications

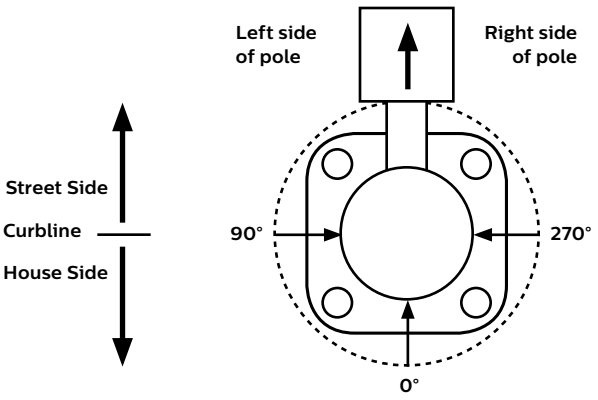
The SiteWise system includes both luminaires and controls. The controls used for SiteWise are circuit load dependent. Required for a complete installation are the following Philips SiteWise components: user interface, control kit, dimming signal transmitter cabinet, and dimming signal receiver located in the Philips luminaire (**SW** option). Optional luminaire-integrated or external motion sensors may also be specified as required. Within the electrical closet, the control kit and dimming signal transmitter cabinet are installed into the electrical system between the existing breaker panel and the site luminaires. New LED luminaires containing the dimming signal receiver are installed on the site. Once completed, use of the interface allows for scheduling and override capabilities. Wireless access point and tablet should be supplied by others. Complete information on the control system can be found on the SiteWise website at **philips.com/sitewise**

GL18 Gullwing LED area luminaire, large

Asymmetric Optical Orientation Information

Standard Optic Position

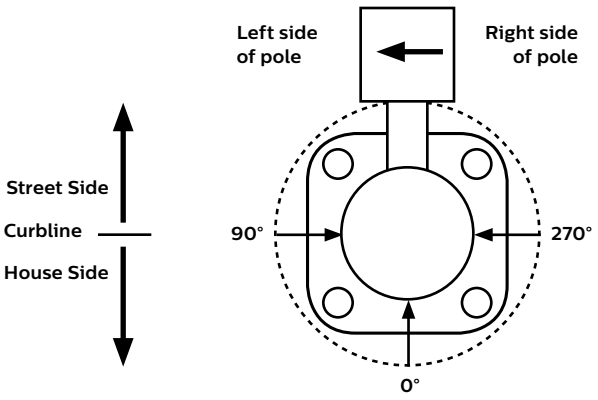
Luminaires ordered with asymmetric optical systems in the standard optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Left (90°) Optic Position

Luminaires ordered with asymmetric optical systems in the Optic Rotated Left (90°) optic position will have the optical system oriented as shown below:

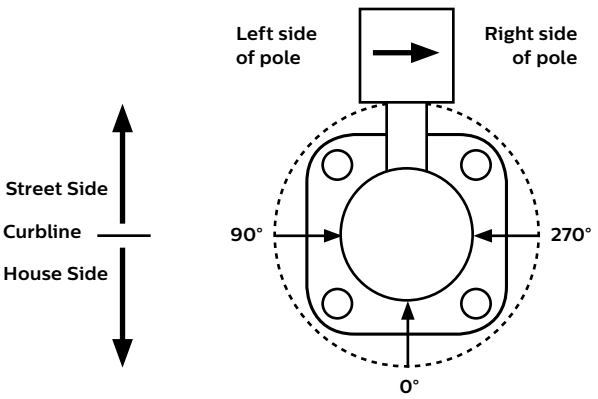


Note: The hand hole will normally be located on the pole at the 0° point.

Asymmetric Optical Orientation Information

Optic Rotated Right (270°) Optic Position:

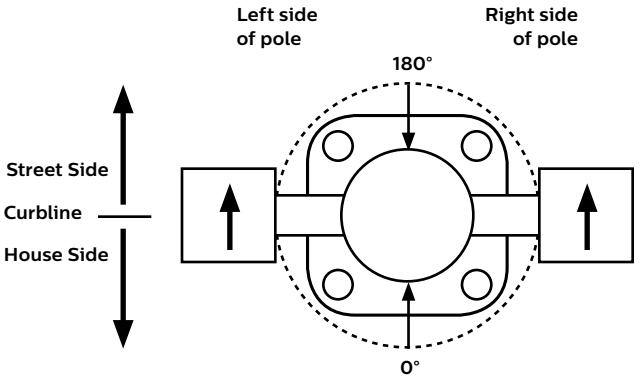
Luminaires ordered with asymmetric optical systems in the Optic Rotated Right (270°) optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

Twin Luminaire Assemblies With Rotated Optical Systems

Twin luminaire assemblies installed with rotated optical systems are an excellent way to direct light toward the interior of the site (Street Side) without additional equipment. It is important, however, that care be exercised to insure that luminaires are installed in the proper location.



Luminaires with Optic Rotated Right (270°) are installed on the LEFT Side of Pole

Luminaires with Optic Rotated Left (90°) are installed on the RIGHT Side of Pole

Note: The hand hole location will depend on the drilling configuration ordered for the pole.

GL18 Gullwing LED area luminaire, large

Specifications

General Description

The Philips Gardco Gullwing LED is defined by its high performance, sleek profile and rugged construction. Gullwing LED luminaires combine LED performance excellence and advanced Philips Gardco LED thermal management technology with the distinct Gullwing style to provide outdoor area lighting that is both energy efficient and aesthetically pleasing.

Housing

A one-piece die cast aluminum housing mounts directly to a pole or wall without the need for a support arm. The low profile rounded form reduces the effective projected area of the luminaire to only 1.2 ft2 /.12 m^2.

IP Rating

Gullwing LED 18" optics are IP66 rated.

Thermal Management

The Philips Gardco Gullwing LED provides a one piece die cast aluminum door with integral thermal radiation fins combined with lateral air ways, to provide the excellent thermal management so critical to long LED system life. GL18 is UL listed from -40 to 40°C ambient.

LED Optical System

LED arrays are set to achieve IES Type II, Type III, Type IV, Type V , available with internal shields for back light control. Type 2, 3, 4 optics can be factory set to 90 or 270° orientations. Individual LED arrays are replaceable. Luminaires feature high performance Class 1 LED systems.

SiteWise network system

SiteWise system includes a controller fully integrated in the luminaire that enables the luminaires to communicate with a dimming signal transmitter cabinet located on site using Philips patented central dimming technology. A locally accessible mobile app allows users to access the system and set functionalities such as ON/OFF, dimming levels and scheduling. SiteWise is available with motion response options in order to bring the light back to 100% when motion is detected. Additional functionalities are available such as communication with indoor lighting and connection to BMS systems.

Wireless system

Gullwing LED luminaires are available with optional wireless controllers ready to be connected to a Limelight system (sold by other). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely.

Based on a high density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution.

Electrical

Luminaires are equipped with an LED driver that accepts 120V through 277V, or 347V through 480V, 50hz to 60hz, input. Driver output is based on the LED wattage selected. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL. Power factor is not less than 90%. Luminaire consumes 0.0 watts in the off state. All motion sensors utilized consume 0.0 watts in the off state. Surge protector standard. 10KA per ANSI/IEEE C62.41.2.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BRP), black (BLP), white (WP), and natural aluminum (NP). Consult factory for specs on optional or custom colors.

Labels

All luminaires bear UL or CUL (where applicable) Wet Location labels. Gullwing LED GL18 luminaires, with the exception of the 310W in 3000K are certified by DesignLights Consortium.

Limited Warranty

5 year limited warranty. See philips.com/luminaires for complete details and exclusions.

LED Performance:

PREDICTED LUMEN DEPRECIATION DATA[17]				
Ambient Temperature °C	Driver mA	Calculated L_{70} Hours[17,18]	L_{70} Per TM-21[18,19]	Lumen Maintenance % @ 60,000 hours
25°C	up to 1050 mA	>100,000	>60,000	96%

17. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
18. L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output.
19. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours.

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

PHILIPS

GARDCO

Site & Area

Gullwing LED

Large, GL18

Project:

Location:

Cat.No:

Type: SB

Qty:

Notes:

Philips Gardco Gullwing LED luminaires combine LED performance excellence and advanced Gardco LED thermal management technology with the distinct Gullwing style to provide outdoor area lighting that is both energy efficient and aesthetically pleasing.

Ordering guide

Example: GL18-APD-1-4-80LA-4853-NW-120-BRP-LF

Prefix	Controls	Mounting	Optical System[6]	Wattage	LED Color	Voltage	Finish	Options
GL18	-	1	2	230LA-9680	NW	208	BLP	LF-IS-RPA2

Prefix

GL18
18" Gullwing LED Luminaire Constant Wattage

GL18-RK
18" Gullwing LED Retrofit Kit

Controls

—
Gullwing Standard Luminaire

GL18-DIM
18" Gullwing LED with 0-10V Dimming

GL18-APD[1]
18" Gullwing LED with Automatic Profile Dimming

GL18-MR50[2,3,4]
18" Gullwing LED with Motion Response - 50% Low (pole mounted sensor)

GL18-APD-MRO[2,3,4]
18" Gullwing LED with APD with Motion Response Override (pole mounted sensor)

GL18-MRI[1,4]
13" Gullwing LED with Motion Response at 50% Low (luminaire mounted sensor)

GL18-APD-MRI[1,4]
13" Gullwing LED with APD with Motion Response Override (luminaire mounted sensor)

Wireless systems
(Remote wireless controller available.)

LLC2[1,4,5] #2 lens for 8' mounting heights
LLC3[1,4,5] #3 lens for 9-20' mounting heights
LLC4[1,4,5] #4 lens for 21-40' mounting heights

Network system (SiteWise)

SW Integral module[2,13]
SW-MRI3 luminaire mounted sensor option Type 3
SW-MRI7 luminaire mounted sensor option Type 7
SW-MRO pole mounted sensor option

Mounting

1
Single

2
2 @ 180°

2@90
2 @ 90°

3
3@90°

3@120
3@120°

4
4@90°

W
Wall Mount, Recessed J-Box

WS
Wall Mount, Surface Conduit

Optical System[6]

2
Type 2

2-90
Type 2@90°

2-270
Type 2@270°

3
Type 3

3-90
Type 3@90°

3-270
Type 3@270°

4
Type 4

4-90
Type 4@90°

4-270
Type 4@270°

5
Type 5

Wattage

50LA-4835
48 LEDs, 350mA

80LA-4853
48 LEDs, 530mA

105LA-4870
48 LEDs, 700mA

160LA-481A
48 LEDs, 1A

180LA-6490
64 LEDs, 900mA

210LA-641A
64 LEDs, 1A

200LA-9670
96 LEDs, 700mA

230LA-9680
96 LEDs, 800mA

265LA-9690
96 LEDs, 900 mA

310LA-961A
96 LEDs, 1A

LED Color

NW
Neutral White 4000K, 70 min. CRI

CW
Cool White 5700K, 70 min. CRI

WW
Warm White 3000K, 70 min. CRI

Voltage

120

208

240

277

347

480

UNV
(120-277V)

HVU
(347-480V)

Finish

BLP
Black Paint

WP
White Paint

BRP
Bronze Paint

NP
Natural Aluminum Paint

OC
Optional Color
Specify optional color or RAL ex: OC-LGP or OC-RAL7024.

SC
Special Color Specify.
Must supply color chip. Requires factory quote.

Options

F[4] Fusing

LF[4] In-Line/In-Pole Fusing

PC[4,5,7] Photocontrol and Receptacle (Includes PCR5)

PCR5[4,5,7,8] Photocell Receptacle only with 2 dimming connections

PCR7[4,5,8,9] Photocell Receptacle only with 2 dimming and 2 auxiliary connections

HS External Houseside Shield

IS Internal Houseside Shield (types 2, 3, 4 only)

CLR[6] Clear Glass Lens (reduces performance)

RPA[1] 3" Round Pole Adapter
Required for 3" O.D. round or tapered round poles where top O.D. is less than 4"

RPA[2] 4" and 5" Round Pole Adapter
Required for 4"- 5" O.D. round poles

MA Mast Arm Fitter - Mounts to a 2-3/8" O.D. mast arm.

TR1[10] Single Transition

TR2[10] Twin Transition

PTF2[11] Pole Top Fitter
2 3/8" - 3" Dia. Tenon

PTF3[11] Pole Top Fitter
3" - 3 1/2" Dia. Tenon

PTF4[11] Pole Top Fitter
3 1/2" - 4" Dia. Tenon

SQPTF[12] Square Pole Fitter

1. Available **120-277V** only.
2. Available **120** or **277V** only.
3. **MR50** and **APD-MRO** luminaires require one motion sensor per pole, ordered separately. See page 2 for accessories.
4. Not available with Retrofit Kits (**GL18-RK**).
5. **LLC2**/**LLC3**/**LLC4**/**LLP** wireless system not configurable with **PC**/**PCR5**/**PCR7** Options. See pages 5-6 for more info.
6. Luminaire door frame and optic assembly provided standard without glass lens. Specify **CLR** option for clear glass lens.
7. Works with 3-pin or 5-pin NEMA photocell/dimming device.
8. If ordered with **DIM**, **APD**, **MRI**, **MR50**, **APD-MRI**, **APD-MRO**, dimming will not be connected to NEMA receptacle.
9. Works with 3-pin or 5-pin NEMA photocell/dimming device and auxiliary connections are not connected (for future use only).
10. Mounts to a 2-3/8" Top Tenon. Specify a round pole with a 4.50" O.D. for a smooth transition.
11. Not available in 120° mounting configurations.
12. Requires a 2-3/8"O.D. x 4" tenon or a 2.4" round pole top O.D. Specify Drilling (1, 2, 2@90, 3 or 4 only.)
13. **SW** option is not available with any other control options with the exception of **SW-MRI3**, **SW-MRI7** and **SW-MRO** motion response options.

GL18 Gullwing LED area luminaire, large

Accessories - Ordering guide (Must be ordered separately)

Motion Response

MS-P[1] 120V or 277V Input - Pedestrian Motion Sensor for GL18-MR (Motion Response) or GL18-APD-MRO (Automatic Profile Dimming with Motion Response Override)

MS-A-120V[2] 120V input - Motion Sensor for MR50 or MRO (pole mount only)

MS-A-277V[2] 120V input - Motion Sensor for MR50 or MRO (pole mount only)

Note: Motion Sensors are ordered separately, with one (1) motion sensor required per pole location for GL18-MR50 or GL18-APD-MRO luminaires. See Luminare Configuration Information on pages 4-5 for more details. Pedestrian sensor color is white. Area motion sensor color is Arctic White.

Wireless system[1,3,4,5]

LLCR2-(F) Standalone wall or pole wireless controller with #2 Lens.

LLCR3-(F) Standalone wall or pole wireless controller with #3 Lens.

LLCR4-(F) Standalone wall or pole wireless controller with #4 Lens.

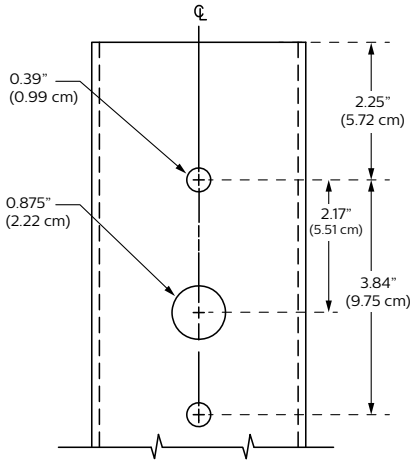
Central Remote Motion Response
(used connected to SiteWise main panel)

MS2-A-FVR-3

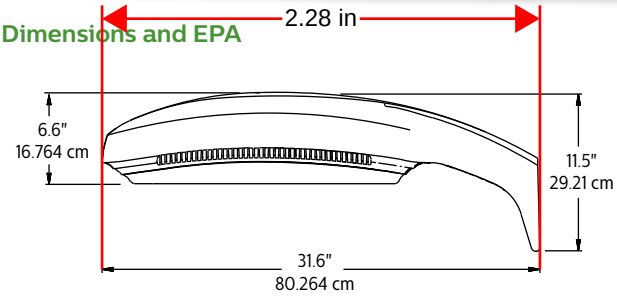
MS2-A-FVR-7

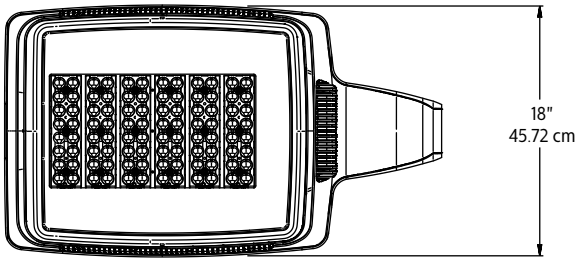
1. Available **120-277V** only.
2. Available **120** or **277V** only.
3. When using the wireless remote accessory option (**LLCR-F**) in a pole mount application, specify pole option (**CL**=Coupling Internal Thread, 3/4" size)
4. Must specify finish (**F**=Specify matching finish)
5. Luminaire configuration must include 0-10V Dimming **GL18-DIM** option when Wireless system accessories are specified

GL18 Drill Template



Dimensions and EPA



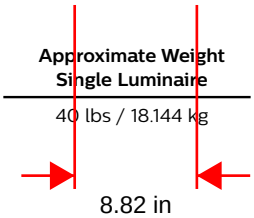


EPA Data

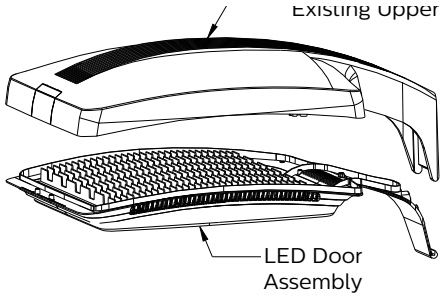
1	2	3-4
1.2 ft²	2.4 ft²	3.2 ft²
.12 m²	.24 m²	.30 m²

Approximate Weight Single Luminaire

40 lbs / 18.144 kg



GL18-RK LED Retrofit Kit



Note: Removal of all components of existing G18 Gullwing luminaires, except the upper housing, is required to perform a retrofit.

GL18-RK includes all necessary retrofit components.

Note: TGIC polyester powdercoat will fade somewhat in exterior environments over time. Once the retrofit kit is installed, there is a possibility that the upper housing may have faded to a point where there is a noticeable paint difference between the upper housing (existing) and the new retrofit kit door frame.

GL18 Gullwing LED area luminaire, large

Technical Data

Ordering Code	Total LEDs	LED Current (mA)	Average System Watts[15]	Color Temp.	Type 2			Type 3		
					Lumen Output[15,16]	Efficacy (LPW)	BUG Rating	Lumen Output[15,16]	Efficacy (LPW)	BUG Rating
50LA-4835	48	350	50	4000K	6207	124	B2-U0-G1	5710	109	B1-U0-G2
80LA-4853	48	530	80	4000K	8949	112	B2-U0-G1	8230	104	B2-U0-G2
105LA-4870	48	700	105	4000K	11,352	108	B3-U0-G2	10,446	98	B2-U0-G2
160LA-481A	48	1050	160	4000K	15,403	96	B3-U0-G2	14,159	88	B2-U0-G3
180LA-6490	64	900	180	4000K	17,788	99	B3-U0-G2	16,689	94	B3-U0-G3
210LA-641A	64	1050	208	4000K	19,964	96	B3-U0-G2	18,718	89	B3-U0-G3
200LA-9670	96	700	200	4000K	22,175	111	B3-U0-G2	20,296	100	B3-U0-G3
230LA-9680	96	800	230	4000K	24,492	106	B3-U0-G2	22,430	96	B3-U0-G4
265LA-9690	96	900	265	4000K	26,809	101	B4-U0-G2	24,543	93	B3-U0-G4
310LA-961A	96	1050	309	4000K	29,331	95	B4-U0-G3	26,843	87	B3-U0-G4

Ordering Code	Total LEDs	LED Current (mA)	Average System Watts[15]	Color Temp.	Type 4			Type 5		
					Lumen Output[15,16]	Efficacy (LPW)	BUG Rating	Lumen Output[15,16]	Efficacy (LPW)	BUG Rating
50LA-4835	48	350	50	4000K	5891	118	B1-U0-G2	6198	124	B3-U0-G1
80LA-4853	48	530	80	4000K	8494	106	B1-U0-G2	8935	112	B3-U0-G2
105LA-4870	48	700	105	4000K	10,774	103	B2-U0-G2	11,335	108	B4-U0-G2
160LA-481A	48	1050	160	4000K	14,619	91	B2-U0-G3	15,379	97	B4-U0-G2
180LA-6490	64	900	180	4000K	16,780	93	B2-U0-G3	17,967	100	B4-U0-G2
210LA-641A	64	1050	208	4000K	18,832	91	B3-U0-G3	20,165	94	B4-U0-G2
200LA-9670	96	700	200	4000K	20,700	103	B3-U0-G4	22,300	112	B5-U0-G3
230LA-9680	96	800	230	4000K	22,863	99	B3-U0-G4	24,630	107	B5-U0-G3
265LA-9690	96	900	265	4000K	25,026	94	B3-U0-G4	26,961	102	B5-U0-G3
310LA-961A	96	1050	309	4000K	27,380	89	B3-U0-G4	29,497	93	B5-U0-G3

15. Wattage may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input. Actual wattage may vary by an additional +/- 10% due to actual input voltage.
16. Values shown are for luminaires without the HS external shield option. Tests are in process for luminaires with the HS option and WW luminaires. Contact outdoorlighting.applications@philips.com if approximate estimates are required for design purposes.

Luminaire Configuration Information

GL18

Philips Gardco Gullwing LED standard luminaire providing constant wattage and constant light output when power to the luminaire is energized.

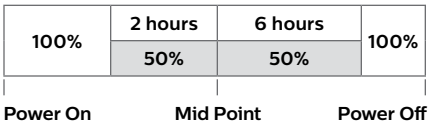
GL18-DIM

Philips Gardco Gullwing LED luminaire provided with 0 -10V dimming for connection to a control system provided by Philips or by others.

GL18-APD

Philips Gardco Gullwing LED luminaire with Automatic Profile Dimming. Luminaire is provided with a programmable LED Driver, programmed to go to 50% power, 50% light output two (2) hours prior to night time mid-point and remain at 50% for six (6) hours after night time mid-point. Mid-point is continuously recalculated by the programmable LED Driver based on the average mid-point of the last two full night cycles. Short duration cycles, and power interruptions are ignored and do not affect the determination of mid-point.

GL18-APD Dimming Profile:



The GL18-APD offers many of the advantages of a sophisticated control system, including an average energy savings of at least 33% versus constant wattage, constant light output systems, without the need for a control system.

GL18-MR50 (Pole Mounted Sensor)

Philips Gardco Gullwing LED luminaire with motion response, providing a 50% power reduction on low and a commensurate reduction in light output. The power and light output reduction is accomplished utilizing the Philips DynaDimmer module, programmed for a constant 50% power. Power supplied by the motion sensor connected to the override line on the DynaDimmer takes the luminaire to high setting, 100% power and light output, when motion is detected. The luminaire remains on high until no motion is detected for the motion sensor duration period, after which the luminaire returns to low. Duration period is factory set at 15 minutes, and is field adjustable from 5 minutes up to 15 minutes.

This configuration is not available for use with wall mounted luminaires.

GL18-MR50 is available in 120V through 277V input only to the luminaire. Motion sensors require single voltage 120V or 277V input.

GL18 Gullwing LED area luminaire, large

Luminaire Configuration Information (Continued)

GL18-APD-MRO (Pole Mounted Sensor)

Philips Gardco Gullwing LED luminaire with Automatic Profile Dimming, with Motion Response Override. The GL18-APD-MRO combines the benefits of both automatic profile dimming and motion response, using the Philips DynaDimmer module. The luminaire will dim to 50% power, 50% light output, per the dimming profile shown for the GL18-APD. If motion is detected during the time that the luminaire is operating at 50%, the luminaire returns to 100% power and light output. The luminaire remains on high until no motion is detected for the duration period, after which the luminaire returns to low. Duration period is factory set at 15 minutes, and is field adjustable from 5 minutes up to 15 minutes.

This configuration is not available for use with wall mounted luminaires.

Notes:

GL18-APD-MRO is available in 120V through 277V input only to luminaire. The motion sensor requires either 120V or 277V input to the motion sensor.

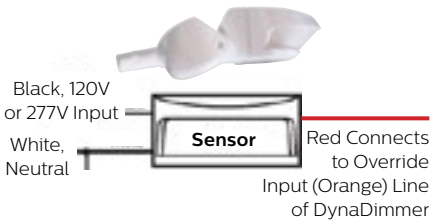
The GL18-APD-MRO has the same pole requirements and utilizes the same motion sensors as the GL18-MR50. The motion sensor

mounts and wires identically as well. The GL18APD-MRO utilizes the identical dimming profile as shown for the GL18-APD.

By combining the benefits of automatic profile dimming and motion response, the GL18-APD-MRO assures maximum energy savings, and insures that adequate light is present if motion is detected.

All motion sensors utilized consume 0.0 watts in the off state.

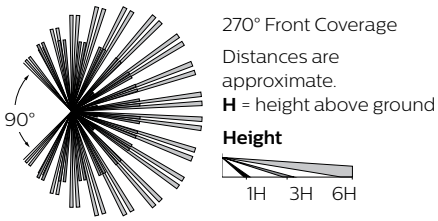
MS-A-120 or MS-A-277



The Area PIR motion sensor is the WattStopper EW-200-120-W (120V Input - MSA-120V) or the WattStopper EW-200-277-W (277V Input - MSA-277V.) One motion sensor per pole is required and is ordered separately. Area sensors require single voltage 120V or 277V input.

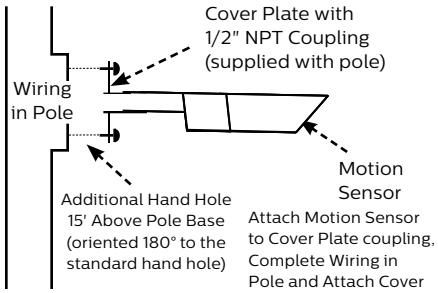
The area motion detector provides coverage equal to up to 6 times the sensor height above ground, 270° from the front-center of the sensor.

Area PIR Motion Sensor Coverage Pattern:

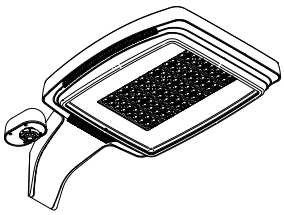


Motion response requires that the pole include an additional hand hole 15 feet above the pole base, normally oriented 180° to the standard hand hole. For Philips Gardco poles, order the pole with the Motion Sensor Mounting (MSM) option which includes the hand hole and a special hand hole cover plate for the sensor with a 1/2" NPT receptacle centered on the hand hole cover plate into which the motion sensor mounts. Once the motion sensor is connected to the hand hole cover plate, then wiring connections are completed in the pole. The plate (complete with motion sensor attached and wired) is then mounted to the hand hole. **If poles are supplied by others, the customer is responsible for providing suitable mounting accommodations for the motion sensor in the pole.**

Mounting to a Philips Gardco Pole:



GL18-MRI (Luminaire mounted sensor)

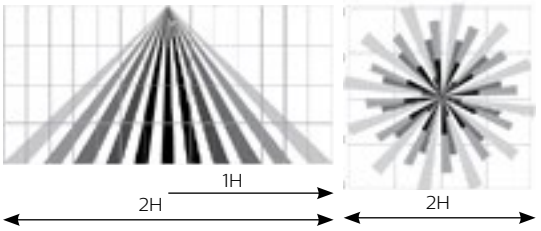


Luminaires with Motion Response and an integral motion sensor include a programmable LED driver and an outboarded programmable motion sensor attached to the luminaire arm. The motion sensor is set to a constant 50%. When motion is detected, the luminaire goes to 100%. The luminaire remains on high until no motion is detected for the motion sensor duration period, after which the luminaire returns to low. Duration period is factory set at 5 minutes. Available from 120V to 277V (UNIV) only.

Luminaires include a passive infrared (PIR) motion sensor, WattStopper FSP-211 equipped with an FSP-L3 lens, capable of detecting motion within 20 feet of the sensor, 180° around the luminaire, when placed at a 20 foot mounting height, or mounted on a wall. Available from 120V to 277V input only. Motion sensor off state power is 0.0 watts.

The approximate motion sensor coverage pattern is as shown below.

Side Coverage Pattern **Top Coverage Pattern**



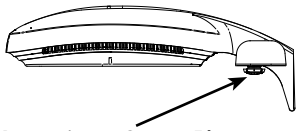
Distances are approximate.
H = height above ground

GL18-APD- MRI (Luminaire mounted sensor)

Luminaires with Integral Motion Sensor - GL18-APD- MRI: Luminaires with Automatic Profile Dimming and Motion Response Override combine the benefits of both automatic profile dimming and motion response. APD-MRI luminaires utilize a programmable LED driver. The luminaire will dim to 50% power, 50% light output, per the dimming profile shown for APD luminaires (see page 4). If motion is detected during the time that the luminaire is operating at 50%, the luminaire goes to 100% power and light output. The luminaire remains on high until no motion is detected for the duration period, after which the luminaire returns to low. Duration period is factory set at 15 minutes.

APD-MRI luminaires are available from 120V to 277V (UNIV) input voltages only.

APD-MRI luminaires use the identical motion sensor as MRI luminaires. See motion sensor details for GL18-MRI.



Approximate Sensor Placement on GL18-MRI and GL18-APD-MRI luminaires.

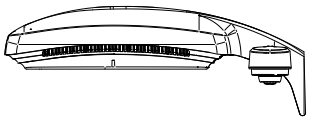
Sensor - Bottom View

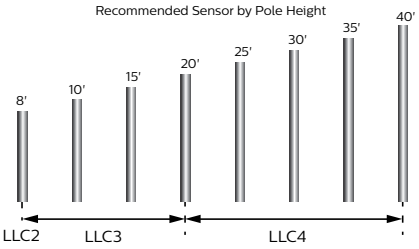
GL18 Gullwing LED area luminaire, large

Luminaire configuration information – Gullwing LED with wireless system

GL18-LLC2/3/4 Luminaire Mounted Controller

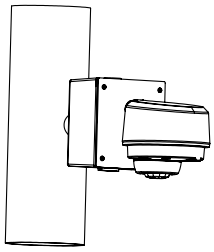
Wireless system attached to luminaire and Includes radio, photocell and motion sensor with #2, 3, or 4 lens for 8-40' mounting heights.





LLCR2/3/4 Pole Mounted Controller

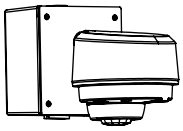
In this configuration, the wireless controller will be mounted to the pole at a fifteen foot mounting height. The number of luminaires on each pole, as well as the specific wattage chosen, will determine how many controllers will be required.



When using the wireless remote accessory option (LLCR-F) in a pole mount application, specify pole option (CL=Coupling Internal Thread, 3/4" size). Confirm required orientation of luminaire and wireless controller. Indicate height above pole base and orientation to handhold. Recommended min pole height is 18ft, with option (CL) 15ft above pole base. Other heights are possible when choosing the appropriate sensor lens type. See pole specification sheets for more information.

Remote Mount Wireless Controller

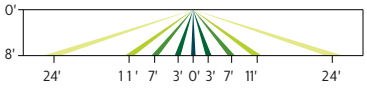
Used to extend the communication on site, to extend motion response and add other luminaires that are not pole mounted. Consult factory for more information.

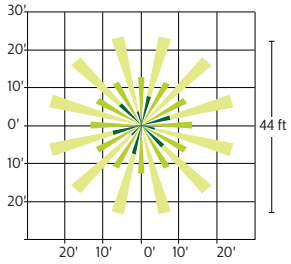


SW

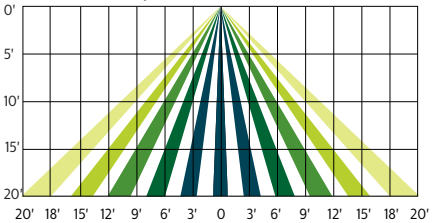
SiteWise option is a fully integrated controller that connects to Philips SiteWise system in order to offer a complete area lighting management system. The communication signal is based on Philips patented central dimming technology. SiteWise delivers it deliver optimal energy savings using your site's existing cabling. No additional wiring required, installation and commissioning are simple. An intuitive, mobile app makes it easy for authorized users to set schedules to meet site specific lighting needs, local regulations, and energy codes.

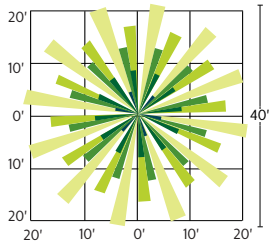
LLC2/LLCR2 (for pole or remote mount only)



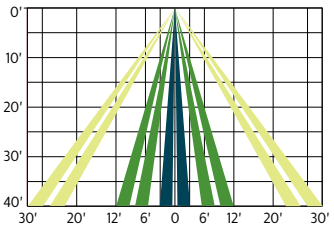


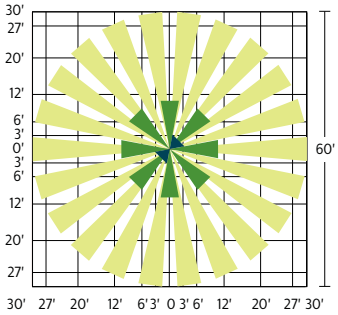
LLC3/LLCR3 (for luminaire, pole, or remote mount)



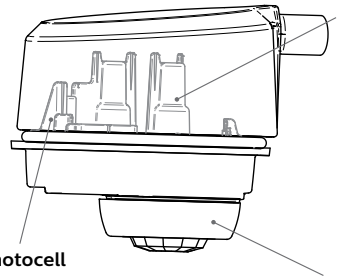


LLC4/LLCR4 (for luminaire, pole, or remote mount)





Controller



Photocell

- Ambient light photocell on every wireless radio that averages the light levels of up to 5 controllers for an accurate reading and optimal light harvesting activity.
- Reports ambient light readings to 1500 Fc.

Wireless Radio

- 1.8 Watts max (no load draw)
- Operating voltage 120-277 VAC RMS
- Communicates using the ZigBee protocol
- Carries out dimming commands from Gateway
- Reports ambient light readings to 1500 Ft-Cd
- Transmission Systems Operating within the band 2400-2483.5Mhz
- ROHS Compliant

Motion Response

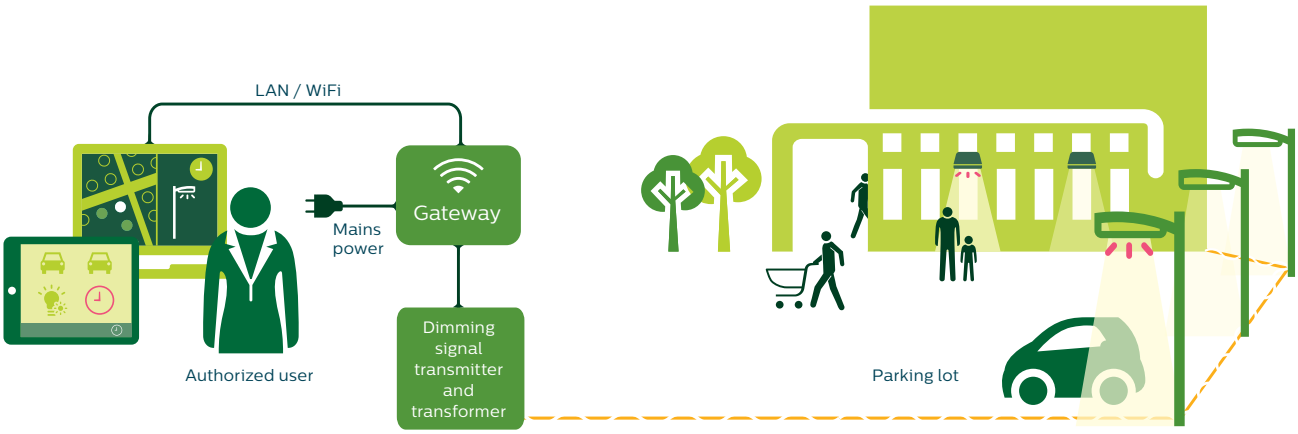
- Detects motion through passive infrared sensing technology with three different lens configurations
- Motion sensor coverage can be adjusted from a narrow to a wide detection range, which helps reduce false triggers to further increase energy savings.
- Sensing profiles can be updated to adapt to activity levels in the environment, such as occupancy level, wind, and mounting height

GL18 Gullwing LED area luminaire, large

SiteWise system

SiteWise is a complete area lighting management system including a luminaire integrated controller, dimming signal transmitter cabinet, and locally accessible user interface. Installation and commissioning are simple. The cabinet communicates with the Philips luminaires using a patented central dimming technology. The control signal is embedded on the existing electrical line – no new cabling is required. An intuitive, locally accessible interface makes it easy for authorized users to set schedules in order to meet site specific lighting needs, local regulations, and energy codes.

SiteWise system diagram



SiteWise system interface

SiteWise has an intuitive user interface that makes it easy to plan, edit, and implement lighting schedules for your site. Authorized users can access the interface via a local app.

To ensure that only authorized users can access your lighting, SiteWise offers two user types, each with different permissions. An advanced user, or administrator, can set and edit schedules using the ten pre-set scenes, assign those schedules to calendar days, and check system status.

For everyday use, a basic user can manually override a schedule that is currently running but cannot create or edit schedules.

SiteWise system specifications

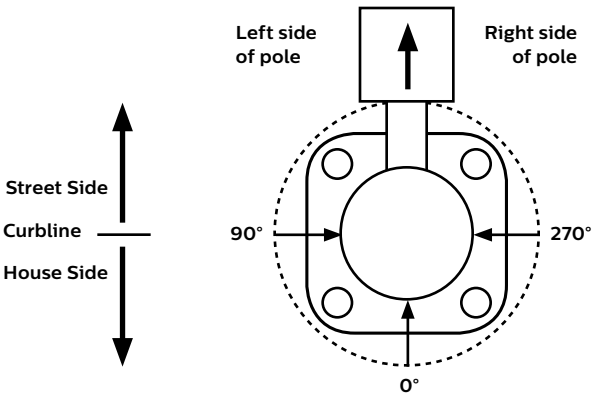
The SiteWise system includes both luminaires and controls. The controls used for SiteWise are circuit load dependent. Required for a complete installation are the following Philips SiteWise components: user interface, control kit, dimming signal transmitter cabinet, and dimming signal receiver located in the Philips luminaire (**SW** option). Optional luminaire-integrated or external motion sensors may also be specified as required. Within the electrical closet, the control kit and dimming signal transmitter cabinet are installed into the electrical system between the existing breaker panel and the site luminaires. New LED luminaires containing the dimming signal receiver are installed on the site. Once completed, use of the interface allows for scheduling and override capabilities. Wireless access point and tablet should be supplied by others. Complete information on the control system can be found on the SiteWise website at **philips.com/sitewise**

GL18 Gullwing LED area luminaire, large

Asymmetric Optical Orientation Information

Standard Optic Position

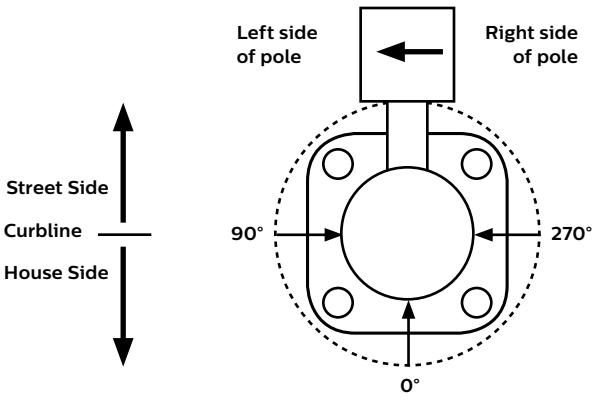
Luminaires ordered with asymmetric optical systems in the standard optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Left (90°) Optic Position

Luminaires ordered with asymmetric optical systems in the Optic Rotated Left (90°) optic position will have the optical system oriented as shown below:

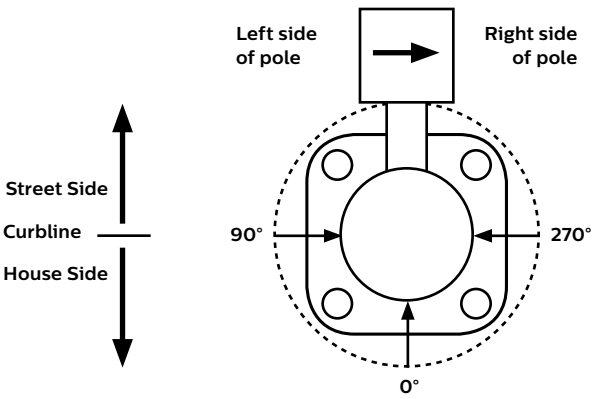


Note: The hand hole will normally be located on the pole at the 0° point.

Asymmetric Optical Orientation Information

Optic Rotated Right (270°) Optic Position:

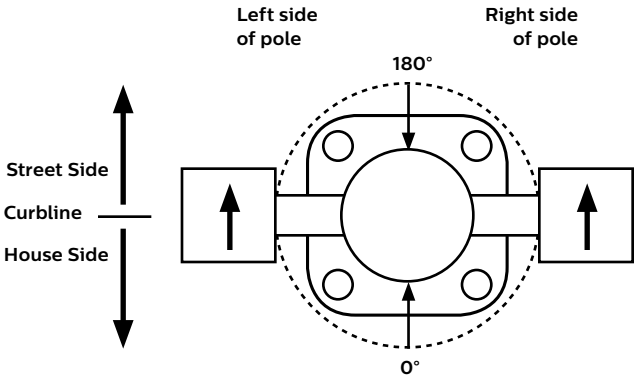
Luminaires ordered with asymmetric optical systems in the Optic Rotated Right (270°) optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

Twin Luminaire Assemblies With Rotated Optical Systems

Twin luminaire assemblies installed with rotated optical systems are an excellent way to direct light toward the interior of the site (Street Side) without additional equipment. It is important, however, that care be exercised to insure that luminaires are installed in the proper location.



Luminaires with Optic Rotated Right (270°) are installed on the LEFT Side of Pole

Luminaires with Optic Rotated Left (90°) are installed on the RIGHT Side of Pole

Note: The hand hole location will depend on the drilling configuration ordered for the pole.

GL18 Gullwing LED area luminaire, large

Specifications

General Description

The Philips Gardco Gullwing LED is defined by its high performance, sleek profile and rugged construction. Gullwing LED luminaires combine LED performance excellence and advanced Philips Gardco LED thermal management technology with the distinct Gullwing style to provide outdoor area lighting that is both energy efficient and aesthetically pleasing.

Housing

A one-piece die cast aluminum housing mounts directly to a pole or wall without the need for a support arm. The low profile rounded form reduces the effective projected area of the luminaire to only 1.2 ft2 /.12 m^2.

IP Rating

Gullwing LED 18" optics are IP66 rated.

Thermal Management

The Philips Gardco Gullwing LED provides a one piece die cast aluminum door with integral thermal radiation fins combined with lateral air ways, to provide the excellent thermal management so critical to long LED system life. GL18 is UL listed from -40 to 40°C ambient.

LED Optical System

LED arrays are set to achieve IES Type II, Type III, Type IV, Type V , available with internal shields for back light control. Type 2, 3, 4 optics can be factory set to 90 or 270° orientations. Individual LED arrays are replaceable. Luminaires feature high performance Class 1 LED systems.

SiteWise network system

SiteWise system includes a controller fully integrated in the luminaire that enables the luminaires to communicate with a dimming signal transmitter cabinet located on site using Philips patented central dimming technology. A locally accessible mobile app allows users to access the system and set functionalities such as ON/OFF, dimming levels and scheduling. SiteWise is available with motion response options in order to bring the light back to 100% when motion is detected. Additional functionalities are available such as communication with indoor lighting and connection to BMS systems.

Wireless system

Gullwing LED luminaires are available with optional wireless controllers ready to be connected to a Limelight system (sold by other). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely.

Based on a high density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution.

Electrical

Luminaires are equipped with an LED driver that accepts 120V through 277V, or 347V through 480V, 50hz to 60hz, input. Driver output is based on the LED wattage selected. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL. Power factor is not less than 90%. Luminaire consumes 0.0 watts in the off state. All motion sensors utilized consume 0.0 watts in the off state. Surge protector standard. 10KA per ANSI/IEEE C62.41.2.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BRP), black (BLP), white (WP), and natural aluminum (NP). Consult factory for specs on optional or custom colors.

Labels

All luminaires bear UL or CUL (where applicable) Wet Location labels. Gullwing LED GL18 luminaires, with the exception of the 310W in 3000K are certified by DesignLights Consortium.

Limited Warranty

5 year limited warranty. See philips.com/luminaires for complete details and exclusions.

LED Performance:

PREDICTED LUMEN DEPRECIATION DATA[17]				
Ambient Temperature °C	Driver mA	Calculated L_{70} Hours[17,18]	L_{70} Per TM-21[18,19]	Lumen Maintenance % @ 60,000 hours
25°C	up to 1050 mA	>100,000	>60,000	96%

17. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
18. L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output.
19. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours.

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

Product Bulletin

Weatherproof Device Covers & Boxes

The Leviton offering of Weatherproof Covers & Boxes comprises both 1- and 2-gang configurations that comply with the National Electric Code® (2017) Section 406.9 for weatherproof enclosures in damp and wet locations.

Weatherproof Device Covers

Key Features

- Complies with NEC® 2017 Section 406.9(A) for weatherproof enclosures in damp locations
- Heavy-duty gasket provides a weatherproof seal which protects from moisture and adds to ease of installation
- Select device covers include three easy-to-install molded adapter plates for use with Toggle Switches, Duplex Receptacles, Decora®/GFCI and Single Receptacle devices
- Safety lockout feature to prevent unauthorized use; available on some models

Ordering Information

Gang	Device Type	Mount*	Color	Metallic	Plastic
Single-Gang	Switch	Vertical or Horizontal	Gray	WM1S-GY	WP1S-GY
	Duplex Receptacle	Horizontal, Oversized	Gray	—	4986-GY
		Vertical or Horizontal	Gray	WM1D-SGY	WP1D-GY
		Horizontal	Gray	—	4976-GY
		Horizontal	White	—	4976-W
		Horizontal, FS Box Mount	Gray	—	4976-FS
		Vertical	Gray	—	4978-GY
		Vertical	White	—	4978-W
	Duplex and Single Receptacle; Includes Inserts for Decora®/GFCI	Horizontal	Gray	WM1H-GY	—
		Vertical	Gray	WM1V-GY	—
	Decora®/GFCI Receptacle	Horizontal	Gray	—	4996-GY
		Horizontal	White	—	4996-W
		Horizontal	Black	—	4996-E
		Vertical	Gray	—	4998-GY
		Vertical	White	—	4998-W
		Horizontal, FS Box Mount	Gray	WM1HF-GY	—
		Vertical, FS Box Mount	Gray	WM1VF-GY	—
	Single Receptacle; 1.406" Hole	Vertical	Gray	—	4979-GY
	Single Receptacle; 1.60" Hole	Vertical	Gray	—	4980-GY
Two-Gang	Switch	Vertical or Horizontal	Gray	WM2S-GY	WP2S-GY
	Duplex and Single Receptacle; Includes Inserts for Decora®/GFCI	Vertical or Horizontal	Gray	WM2V-GY	WP2V-GY
	Switch & GFCI	Vertical or Horizontal	Gray	WM2SG-GY	WP2SG-GY
	Switch & Duplex Receptacle	Vertical or Horizontal	Gray	WM2SD-GY	WP2SD-GY

*Device Mount unless otherwise specified

Weatherproof Outlet Box Hoods (While-In-Use Covers)

Key Features

- Compliant with NEC® 2017 Section 406.9(B)(1)
- Safety lockout feature to prevent unauthorized use
- Pre-installed weatherproof gasket features custom fit inserts allowing for an easy to use installation
- Extra duty models meet or exceed the most stringent impact resistance tests required in UL 514D for Extra Duty Outlet Box Hoods, ensuring maximum safety in abusive environments

Ordering Information

Gang	Device Type	Mount*	Color	Material	Catalog #
Single-Gang	Extra Duty; Includes Inserts for Single, Duplex and Decora/GFCI Receptacles	Vertical	Gray	Metal	IUM1V-GY
		Horizontal	Gray	Metal	IUM1H-GY
		Vertical	Gray	Plastic	5980-UGY
			Clear	Plastic	5980-UCL
		Horizontal	Gray	Plastic	5981-UGY
			Clear	Plastic	5981-UCL
Two-Gang	Extra Duty; Includes Inserts for Duplex and Decora/GFCI Receptacles	Vertical	Gray	Metal	IUM2V-GY
		Vertical	Gray	Plastic	5982-UGY
			Clear	Plastic	5982-UCL

*Device Mount unless otherwise specified

Weatherproof Blank Plates

Key Features

- Equipped with heavy-duty weatherproof gasket to seal out moisture

Ordering Information

Gang	Color	Catalog #
Single-Gang	Gray	WM1B-GY
Two-Gang	Gray	WM2B-GY

Weatherproof Boxes

Key Features

- Constructed of heavy duty die-cast aluminum
- Includes ground screw, mounting hardware and inserts to cover unused openings to prevent insects and debris from entering the box

Ordering Information

Gang	Description	Color	Catalog #
Single-Gang	Three 1/2" Diameter Outlets	Gray	1GM53-GY
	Three 3/4" Diameter Outlets	Gray	1GM73-GY
Two-Gang	Three 1/2" Diameter Outlets	Gray	2GM53-GY
	Five 1/2" Diameter Outlets	Gray	2GM55-GY
	Three 3/4" Diameter Outlets	Gray	2GM73-GY
	Five 3/4" Diameter Outlets	Gray	2GM75-GY

Weatherproof Cover Kits

Key Features

- Some of our most popular device covers, box hoods, and boxes collected together in simple, easy-to-install packages
- Compliant with NEC® 2017 Section 406.9 for weatherproof enclosures in damp and wet locations

4996-KIT

WM1SC-2GY

IUM1H-KRG

Ordering Information

Gang	Description	Catalog #
Single-Gang	One **WM1S-GY** Weatherproof Switch Cover, Gray; Weatherproof Gasket; Mounting Screws; one **CS120-2GY** 20 A, 120/277 VAC Switch, Gray	WM1SC-2GY
	One **GFWT1-GY** 15 A, 125 V, Weather- & Tamper-Resistant GFCI Receptacle, Gray; one **4996-GY**, Decora/GFCI Receptacle Weather-Resistant Cover with Self-Closing Lid, Gray; one **1GM53-GY** Die-Cast Weatherproof Box	4996-KIT
	One **IUM1V-GY** Extra-Duty Vertical Outlet Box Hood with Pre-Installed Weatherproof Gasket one **GFWT1-GY** 15 A, 125 V GFCI Receptacle, Weather & Tamper-Resistant, Gray	IUM1V-KRG
	Same items as **IUM1V-KRG** (listed above) with addition of one **1GM53-GY**, Die-Cast Weatherproof Box and Mounting Hardware	IUM1V-KBG
	One **IUM1H-GY** Extra-Duty Horizontal Outlet Box Hood with Pre-Installed Weatherproof Gasket one **GFWT1-GY** 15 A, 125 V, GFCI Receptacle, Weather- & Tamper-Resistant	IUM1H-KRG
	Same items as **IUM1H-KRG** (listed above) with addition of one **1GM53-GY**, Die-Cast Weatherproof Box and Mounting Hardware	IUM1H-KBG

Visit our Website at:
www.leviton.com/weatherproofcovers
email: commercial@leviton.com

Q-1015H 112020

Leviton Manufacturing Co., Inc.
201 N Service Rd, Melville, NY 11747
Telephone: 1-800-323-8920 • FAX: 1-800-832-9538
Tech Line: 1-800-824-3005 (M-F 8AM-10PM; Sat 9AM-7PM; Sun 9AM-5PM)