	GARDCO			Re			_	roject:	
Site 8	k Area		Ų				Ci	at.No:	
							_	/pe: uantity:	
Gullwi	ng LED						_	otes:	
Small, GL Ordering gu		e	excellenc distinct G		l Gardco LE provide ou	D therma tdoor are	al managem a lighting th	ent tech nat is bo	performance Inology with the th energy efficient -6435-NW-120-BRP-LF
Prefix	Controls	Mounting	Optical System⁴	Wattage	LED Color	Voltage	Finish	Options	
GL13									
GL13 13" Gullwing LED Luminaire Constant Wattage GL13-RK 13" Gullwing LED Retrofit Kit	- Gullwing Standard Luminaire GL13-DIM 13" Gullwing LED with 0-10V Dimming GL13-APD' 13" Gullwing LED with Automatic Profile Dimming GL13-MRI <sup>2,3</sup> 13" Gullwing LED with Motion Response at 50% Low (luminaire mounted sensor) GL13-APD-MRI <sup>2,3</sup> 13" Gullwing LED with APD with Motion Response Override (luminaire mounted sensor)	1 Single 2 @ 180° 2 @ 90° 3 @ 90° 3 @ 120 3 @ 120 3 @ 120° 4 4 @ 90° W Wall Mount, Recessed J-Box WS Wall Mount, Surface Conduit	2 Type 2 3 Type 3 4 Type 4 5 Type 5	<b>70LA-6435</b> 64 LEDs, 350mA <b>85LA-8035</b> 80 LEDs, 350mA <b>105LA-6453</b> 64 LEDs, 530mA	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 Bronze Paint NP Natural Aluminum Paint OC Optional Color Specify optiona color or RAL ex: OC-LGP or OG-RAL7024. SC Special Color Specify. Must- supply color chip. Requires factory quote.	нѕ	Fusing In-Line/In-Pole Fusing Photocontrol and Receptacle (Includes PCR5) Photocell Receptacle only with 2 dimming connections Photocell Receptacle only with 2 dimming and 2 auxiliary connections External Houseside Shield Internal Houseside Shield (types 2, 3, 4 only) Mast Arm Fitter - Mounts to a 2-3/8" O.D. mast arm. Single Transition Twin Transition Pole Top Fitter - 2 3/8" - 3" Dia. Tenon Pole Top Fitter - 3" - 31/2" Dia. Tenon Pole Top Fitter - 31/2" - 4" Dia. Tenon Square Pole Adapter Diffuse Lens
3. Available 120 c 4. Luminaire doo	rith Retrofit Kits (GL13-RK). or 277V only. r frame and optic assembly pr clear tempered glass lens.	ovided	<ol> <li>7. Works w device.</li> <li>8. If ordere will not</li> <li>9. Mounts</li> </ol>	lable with 480V. ith 3-pin or 5-pin NEI ed with DIM, APD, MR be connected to NEM to a 2-3/8" Top Tenor 0" top O.D. for a smo	I, APD-MRI, dir 1A receptacle. n. Specify a rou	mming			mounting configurations. ng to straight square poles.

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# **GL13** Gullwing LED area luminaire, small

## Specifications

### **General Description**

The Philips Gardco Gullwing LED GL13 area luminaire is defined by its high performance, sleek profile and rugged construction. Gullwing LED luminaires combine LED performance excellence and advanced Philips high performance Class 1 LED systems. 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 0.8  $ft^2$  /.07 m<sup>2</sup>.

## IP Rating

Gullwing LED 13" optics are IP65 rated. **Thermal Management** 

The Philips Gardco Gullwing LED provides extruded aluminum integral thermal radiation fins to provide the excellent thermal management so critical to long LED system life.

#### LED Optical System

LED arrays are set to achieve IES Type II, Type Each standard color luminaire receives a III, Type IV, and Type V, available with internal shields for back light control. Individual LED arrays are replaceable. Luminaires feature

#### 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. All luminaires bear UL or CUL (where 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 Limited Warranty less than 90%. Luminaire consumes 0.0 watts in the off state. Surge protector standard. 10KA luminaires for complete details and exclusions. per ANSI/IEEE C62.41.2.

#### Finish

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

applicable) Wet Location labels.

### **LED Performance:**

PREDICTED LUMEN DEPRECIATION DATA <sup>15</sup>							
Ambient Temperature °C	Driver mA	Calculated L <sub>70</sub> Hours <sup>15,16</sup>	L <sub>70</sub> Per TM-21 <sup>16,17</sup>	Lumen Maintenance % @ 60,000 hours			
25°C	up to 530 mA	>100,000	>60,000	82%			
15 Predicted performance derived from LED manufacturer's data and engineering design estimates based on							

 Predicted performance derived from LED manufacturer's data and engineering design estimates, based or IESNA LM-80 methodology. Actual experience may vary due to field application conditions. 16.  $L_{70}$  is the predicted time when LED performance depreciates to 70% of initial lumen output.

17. Calculated per IESNA TM21-11. Published  $L_{70}$  hours limited to 6 times actual LED test hours.

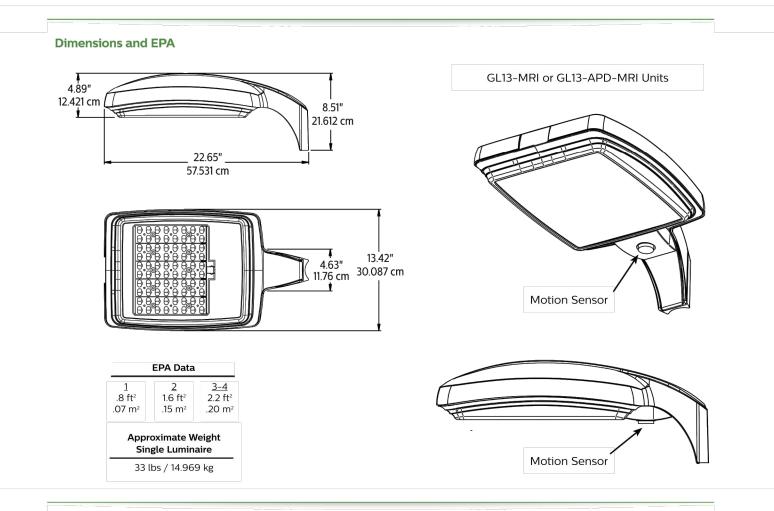
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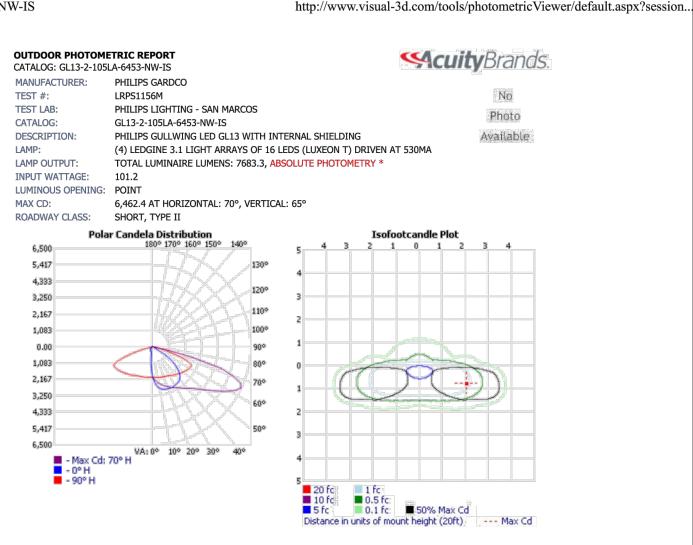
**Technical Data** 

		LED	Average			Type 2		Type 3		
Ordering Code	Total LEDs	Current (mA)	System Watts <sup>12</sup>	Color Temp.	Lumen Output <sup>13,14</sup>	Efficacy (LPW)	BUG Rating	Lumen Output <sup>13,14</sup>	Efficacy (LPW)	BUG Rating
70LA-6435	64	350	70	4000K	6652	95	B2-U0-G1	6750	96	B1-U0-G2
85LA-8035	80	350	86	4000K	8064	95	B2-U0-G1	8173	95	B1-U0-G2
105LA-6453	64	530	101	4000K	9870	97	B2-U0-G2	9385	93	B2-U0-G2
		LED	Average			Type 4			Type 5	
Ordering Code	Total LEDs	Current	Average System Watts <sup>12</sup>	Color Temp.	Lumen Output <sup>13,14</sup>	Type 4 Efficacy (LPW)	BUG Rating	Lumen Output <sup>13,14</sup>	Type 5 Efficacy (LPW)	BUG Rating
Ordering Code 70LA-6435		1	System	Color Temp. 4000K		Efficacy		1	Efficacy	BUG
	LEDs	Current (mA)	System Watts <sup>12</sup>	Temp.	Output <sup>13,14</sup>	Efficacy (LPW)	Rating	Output <sup>13,14</sup>	Efficacy (LPW)	BUG Rating

 Contact Outdoorlighting.applications@philips.com for values not listed or if approximate estimates are required for design purposes.
 LED arrays feature LEDs that provide from 90 to 100 lumens per watt when operated at 350 mA. Lumen values based on tests performed in compliance with IESNA LM-79.

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GL13-2-105LA-6453-NW-IS



\*TEST BASED ON ABSOLUTE PHOTOMETRY WHERE LAMP LUMENS=LUMENS TOTAL. \*CUTOFF CLASSIFICATION AND EFFICIENCY CANNOT BE PROPERLY CALCULATED FOR ABSOLUTE PHOTOMETRY. VISUAL PHOTOMETRIC TOOL 1.2.46 COPYRIGHT 2017, ACUITY BRANDS LIGHTING. THIS PHOTOMETRIC REPORT HAS BEEN GENERATED USING METHODS RECOMMENDED BY THE IESNA. CALCULATIONS ARE BASED ON PHOTOMETRIC DATA PROVIDED BY THE MANUFACTURER, AND THE ACCURACY OF THIS PHOTOMETRIC REPORT IS DEPENDENT ON THE

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VARIATION AND DIRT ACCUMULATION) CAN CAUSE ACTUAL PHOTOMETRIC PERFORMANCE TO DIFFER FROM THE PERFORM	1ANCE
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VISUAL PHOTOMETRIC TOOL	PAGE 1 OF 4

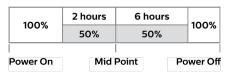
# Luminaire Configuration Information GL13

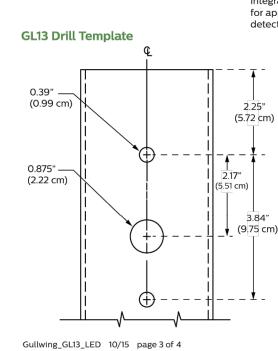
Philips Gardco Gullwing LED standard luminaire providing constant wattage and constant light output when power to the luminaire is energized. GL13-DIM

Philips Gardco Gullwing LED luminaire provided with 0 -10V dimming for connection to a control system provided by Philips or by others. GL13-APD

Philips Gardco Gullwing LED luminaire with Automatic Profile Dimming. Luminaire is provided with Dynadimmer, 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 Dynadimmer 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. GL13-APD Dimming Profile:

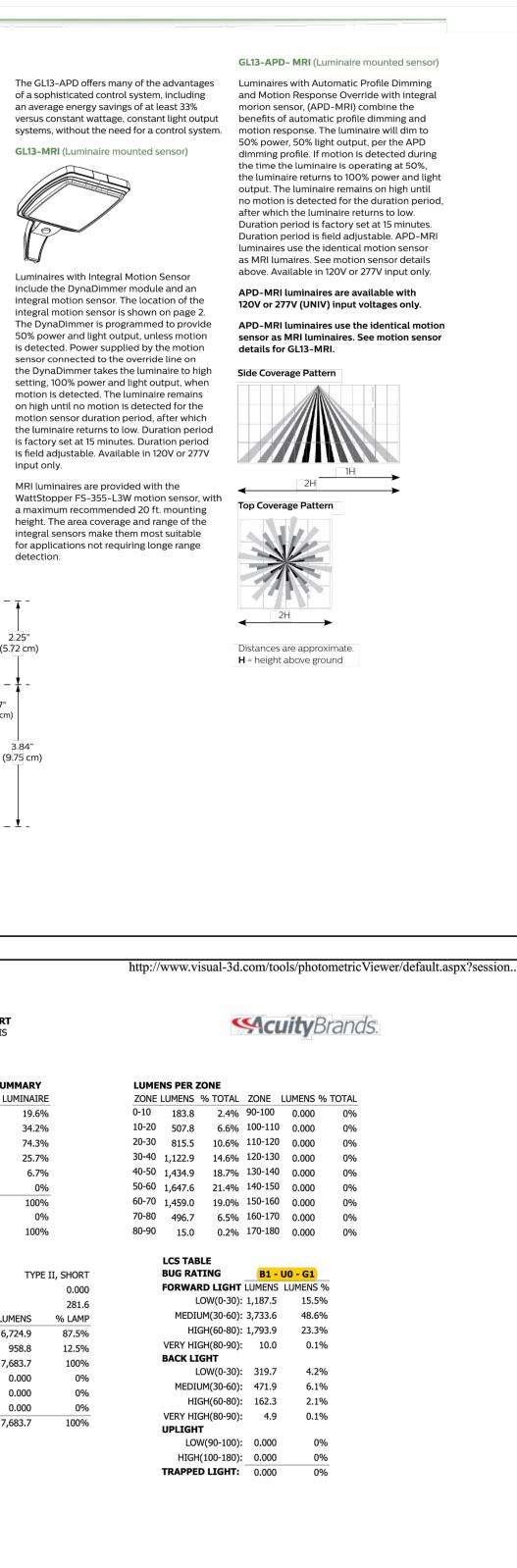




GL13-2-105LA-6453-NW-IS

OUTDOOR PHOTOMETRIC REPO CATALOG: GL13-2-105LA-6453-NW-	
ZONAL LUMEN S ZONE LUMENS %	
0-30 1,507.0	19.6 <sup>4</sup>
0-40 2,629.9	34.2
0-60 5,712.5	74.3
60-90 1,970.8	25.7
70-100 511.8	6.7
90-120 0.000	0
0-90 7,683.3	100
90-180 0.000	0
0-180 7,683.3	100
ROADWAY SUMMARY	
DISTRIBUTION:	TYP
MAX CD, 90 DEG VERT:	
MAX CD, 80 TO <90 DEG:	LUMENS
DOWNWARD STREET SIDE:	6,724.9
DOWNWARD HOUSE SIDE:	958.8
DOWNWARD TOTAL:	7,683.7
UPWARD STREET SIDE:	0.000
UPWARD HOUSE SIDE:	0.000
UPWARD TOTAL:	0.000
TOTAL LUMENS:	7,683.7
LRPS1156M VISUAL PHOTOMETRIC TOOL	

# **GL13** Gullwing LED area luminaire, small



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**EP1.**1

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