

The items shown are provided as part of a total integrated Philips Gardco Solar area lighting system only. Factory quotation and factory preparation of submittals are required. Submittals apply to the factory quotation number shown above only. Contact your Philips Gardco representative for further assistance.

Emco

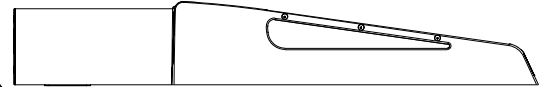
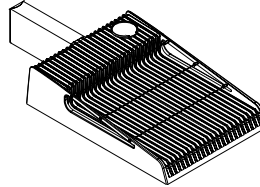


Solar LED Area Luminaire

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Solar Area Lighting System

The Emco LED Area luminaire design provides a distinct low profile with die cast aluminum integral thermal radiation fins to provide the excellent thermal management so critical to long LED system life. The LED optical systems are available with Type II, Type III, Type IV and Type V optical systems. The LED technology provides maximized light output and maximum energy savings. Emco LED Area luminaires provide full cutoff performance.



PREFIX

ELAS16 Solar LED Area Luminaire

MOUNTING

I Single Assembly

OPTICAL SYSTEM

2 Type II
3 Type III
4 Type IV
5 Type V

LED WATTAGE AND LUMEN VALUES

Ordering Code	Description	System Watts ^{1,2,3}	LED Selection	Estimated Initial Luminaire Lumens ^{3,4}			
				Type 2	Type 3	Type 4	Type 5
40LA	40 watt, (I) LED integral lens array.	40	CW	2,647	2,543	2,628	2,425
			NW	2,458	2,259	2,268	2,299
60LA	60 watt, (I) LED integral lens array.	60	CW	3,972	3,816	3,942	3,638
			NW	3,688	3,389	3,403	3,449
80LA	80 watt, (I) LED integral lens array.	80	CW	5,295	5,087	5,255	4,850
			NW	4,917	4,518	4,537	4,598

1. Full system watts are shown.

2. LED wattage may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature.

3. LED arrays feature LEDs that provide 100 lumens per watt when operated at 350 mA. Estimated initial luminaire lumens per watt are less.

4. Estimated lumen values are based on tests performed in compliance with IESNA LM-79 on standard Emco LED Area luminaires powered by normal AC current, and prorated based on system wattage. Estimated lumen values are for luminaires without the DL option or House Side Shield option. Multiply lumen values by .8 for approximate lumen values with DL option. Lumen values shown are estimates only. Actual values delivered may vary.

LED SELECTION

CW Cool White - 6,000°K - 75 CRI
NW Neutral White - 4,000°K - 75 CRI

VOLTAGE

12 12 Volt System
24 24 Volt System

FINISH

BRP Bronze Paint
BLP Black Paint
WP White Paint
NP Natural Aluminum Paint
OC Optional Color Specify RAL Color, Ex: OC-RAL6005.
SC Special Color Requires Color Chip.

OPTIONS

DL Diffusing Lens
HS External House Side Shield

1611 Clovis Barker Road, San Marcos, TX 78666

(800) 227-0758 (512) 753-1000 FAX: (512) 753-7855 sitelighting.com

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PHILIPS

GARDCO

SPECIFICATIONS

GENERAL DESCRIPTION: Emco LED Area luminaires combine a low profile style with advanced LED performance and thermal management technology to deliver outdoor area lighting that is as energy efficient and aesthetically pleasing as it is remarkably economical.

HOUSING: The housing is one-piece, die cast aluminum and mounts to a pole, utilizing an extruded arm. Additionally, LED Area luminaires mount easily to a wall or to a mast arm while providing smooth visual transitions.

LED THERMAL MANAGEMENT: The LED Area luminaire design provides die cast aluminum integral thermal radiation fins to provide the excellent thermal management so critical to long LED system life.

LED PERFORMANCE:

PREDICTED LUMEN DEPRECIATION DATA ⁵	
Ambient Temperature °C	L ₇₀ Hours ⁶
15 °C	100,000
25 °C	75,000
40 °C	50,000

5. 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.
6. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output.

OPTICAL SYSTEMS: Lensed LED arrays are set to achieve IES Type II, Type III, Type IV and Type V distributions. Individual LED arrays are replaceable.

ELECTRICAL: Luminaires are equipped with appropriate LED drivers that accept output from the solar power system provided. 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 for use at 600 VAC at 302°F/150°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher.

FINISH: Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BRP), black (BLP), white (WV), 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.

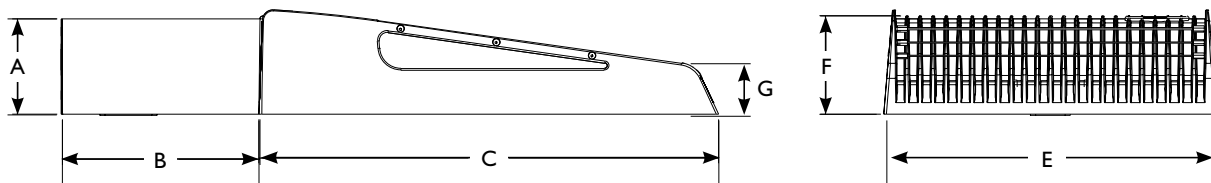
WARRANTY: Emco luminaires feature a 1 year limited warranty. Emco LED luminaires with LED arrays feature a 5 year limited warranty covering the LED arrays. See Warranty Information on www.sitelighting.com for complete details and exclusions.

FULL CUTOFF PERFORMANCE: Full cutoff performance means a luminaire distribution where zero candela intensity occurs at an angle at or above 90° above nadir. Additionally, the candela per 1000 lamp lumens does not numerically exceed 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

CUTOFF PERFORMANCE: Cutoff performance means a luminaire distribution where the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle at or above 90° above nadir, and 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

DIMENSIONS

Arm Mount - Direct to Pole



D = Width of Arm

Dimensions	ELAS16"
A	4.5" / 11.43 cm
B	6.28" / 15.95 cm
C	16.53" / 41.99 cm
D	2" / 5.08 cm
E	15.2" / 38.61 cm
F	4.6" / 11.68 cm
G	1.53" / 3.89 cm

Effective Projected Area ⁷ (EPA)		Approximate Weight - Single Luminaire
	Single	
ELAS16"	.87 ft ²	21 lbs
	.081 m ²	9.53 kg

7. The EPA and weight of all solar power system components must be added to the luminaire EPA and weight shown above to determine the total EPA and weight on a single pole.

