

# SOLID STATE AREA LIGHTING

## LCGS SERIES-LED

### S P E C I F I C A T I O N S

#### HOUSING

Durable corrosion resistant cast aluminum construction Top and Fitter. Traditional styling of the Housing features decorative accents and Flutes with open Struts.

#### ✓LED<sup>®</sup> OPTICAL MODULE

Low copper A356 alloy (<.2% copper) cast aluminum housing. Integrated clear tempered 3/16" glass lens sealed with a continuous silicone gasket protects emitters (LED's) and emitter Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module; one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism has indexing pins for aiming and is secured to an optical plate made of matte black anodized aluminum. The optical plate locates every Reflector-Prism over an emitter. Reflector-Prisms are secured to the optical plate with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IESType II, III, IV, and V-SQ distributions. The entire Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord. Lens, module and drivers are field replaceable.

#### LED EMITTERS

High Output LED's are driven at 350mA for nominal 1 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

#### LED DRIVER

UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for 347-480VAC. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

#### FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Texture finish is standard.

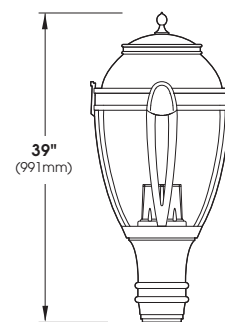
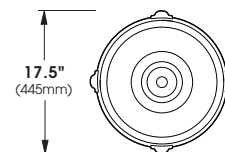
PROJECT NAME: \_\_\_\_\_

PROJECT TYPE: \_\_\_\_\_



LCGS

PATENT PENDING



2014216



# SOLID STATE AREA LIGHTING

## LCGS SERIES-LED

### S P E C I F I C A T I O N S

#### LUMINAIRE

One piece high impact polycarbonate patterned diffusing globe provided with durable corrosion resistant cast aluminum fitter, struts, and top. Top is hinged for access. Standard fitter has 3" I.D. opening for tenon. All hardware is stainless steel.

#### LED POWER ARRAY™

Three-dimensional array of individual LED Tubes fastened to a retaining plate. Each LED Tube consists of circuit board populated with a multiple of LED's and is mechanically fastened to a radial aluminum heat sink. An acrylic Lens and end cap protects the LED Tube's internal components.

**ANGLED POWER ARRAY™:** Micro-Reflectors mounted around each LED control the raw light output. LED Tubes are uniquely aimed horizontally and vertically and combined to produce highly efficient IES Distribution Types II, III, IV and V. Used in conjunction with a clear patterned diffusing lens.

**VERTICAL POWER ARRAY™ WITH GLASS REFRACTOR:** LED Tubes are aligned vertically and arranged radially to produce an even raw light distribution that simulates standard light sources. Array is secured within a 6" Prismatic Glass Refractor which provides the optical control. Used in conjunction with a clear patterned diffusing lens.

**VERTICAL POWER ARRAY™:** LED Tubes are aligned vertically and arranged radially to produce an even raw light distribution that simulates standard light sources. Produces a minimal glare, symmetric diffuse light distribution. Used in conjunction with an opal patterned diffusing lens.

#### LED EMITTERS

High Output LED's are driven at 350mA for nominal 1 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

#### LED DRIVER

UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for 347-480VAC. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

#### FINISH

Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.

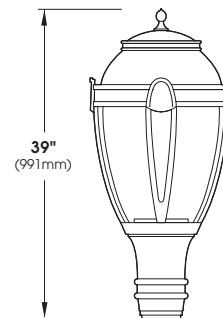
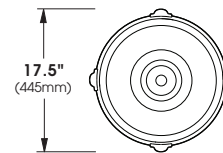
PROJECT NAME: \_\_\_\_\_

PROJECT TYPE: \_\_\_\_\_



LCGS-LED

PATENT PENDING




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# LCGS SERIES - LED

## S P E C I F I C A T I O N S

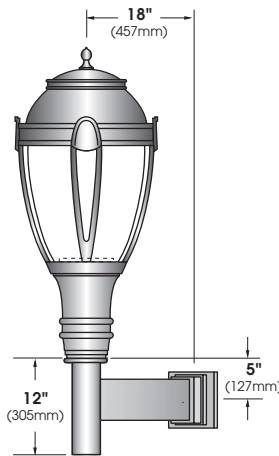
### OPTIONS

**STANDARD:**  
SOLID TOP



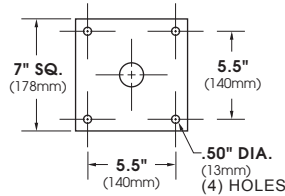
**OPTION:**  
CLEAR ACRYLIC TOP  
(FOR UPLIGHT)

### WALL MOUNT

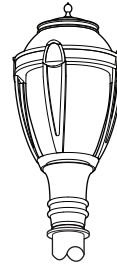


EXTRUDED ALUMINUM ARM BRACKET AND CAST ALUMINUM WALL BRACKET ASSEMBLY PROVIDED WITH BUILT IN GASKETED WIRE ACCESS FOR FIXTURE/SUPPLY WIRE CONNECTION.

### WALL PLATE



### LED POWER ARRAY™ MODULES

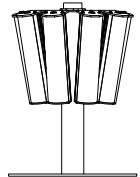


**LCGS-LED E.P.A. = 2.00**

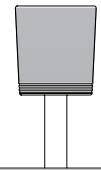
**ANGLED ARRAY**  
Available in:  
10 Array 80 LED Max.

**GLASS REFRACTOR w/  
VERTICAL ARRAY**  
Available in:  
6 Array 36 LED Max.

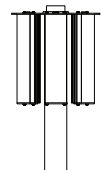
**VERTICAL ARRAY**  
Available in:  
6 Array 48 LED Max.  
8 Array 64 LED Max.  
10 Array 80 LED Max.



**APA - Angled Array**  
Base mount



**GRV - Glass Refractor w/  
Vertical Array**  
Base mount


















**VPA - Vertical Array**  
Base mount

(Specifications subject to change without prior notice.)

PATENT PENDING

## O R D E R I N G I N F O R M A T I O N

LUMINAIRE-FITTER	OPTICS	# of LED's	COLOR	VOLTAGE	MOUNTING	FINISH	OPTIONS
<b>LUMINAIRE</b>	<b>OPTICS</b>	<b>LED</b>			<b>MOUNTING</b>	<b>FINISH</b>	<b>OPTIONS</b>
<b>LUMINAIRE-FITTER</b>	<b>ANGLED POWER ARRAY</b> (CLEAR PATTERNED LENS)	<b>No. LEDs</b>	<b>COLOR</b>	<b>VOLTAGE</b>	<b>ARM MOUNT</b>	<b>STANDARD TEXTURED FINISH</b>	<b>LENS OPTIONS:</b>
<input type="checkbox"/> LCGS-LED	<input type="checkbox"/> APA - II .....  <input type="checkbox"/> APA - III .....  <input type="checkbox"/> APA - IV .....  <input type="checkbox"/> APA - V ..... 	<input type="checkbox"/> 80LED (89 Watts) <input type="checkbox"/> 60LED (67 Watts) <input type="checkbox"/> 40LED (45 Watts)	<input type="checkbox"/> NW (4000K)* *STANDARD <input type="checkbox"/> CW (5000K) <input type="checkbox"/> WW (3000K) OTHER LED COLORS AVAILABLE CONSULT FACTORY	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480	<input type="checkbox"/> 1 .....  <input type="checkbox"/> 2-180 .....  <input type="checkbox"/> 2-90 .....  <input type="checkbox"/> 3-90 .....  <input type="checkbox"/> 3-120 .....  <input type="checkbox"/> 4-90 ..... 	<input type="checkbox"/> BLACK RAL-9005-T <input type="checkbox"/> WHITE RAL-9003-T <input type="checkbox"/> GREY RAL-7004-T <input type="checkbox"/> DARK BRONZE RAL-8019-T <input type="checkbox"/> GREEN RAL-6005-T	<input type="checkbox"/> CLEAR PATTERNED POLYCARBONATE ... CP (STANDARD GLOBE) <input type="checkbox"/> OPAL PATTERNED POLYCARBONATE ... WP <input type="checkbox"/> CLEAR ACRYLIC TOP (FOR UPLIGHT) ..... LT (STANDARD SOLID TOP)
	<b>GLASS REFRACTOR</b> (CLEAR PATTERNED LENS)	<input type="checkbox"/> 36LED (41 Watts)			<b>WALL MOUNT</b>	<b>FOR SMOOTH FINISH REMOVE SUFFIX "T" (EXAMPLE: RAL-9500)</b>	<input type="checkbox"/> HOUSE SIDE SHIELD ... HS
	<input type="checkbox"/> GRV - III .....  <input type="checkbox"/> GRV - V ..... 	Wattages are Max Input Watts			<input type="checkbox"/> WM ..... 	SEE USALTG.COM FOR ADDITIONAL COLORS	<input type="checkbox"/> DIMMABLE DRIVER(S) (0-10V) ..... DIM
	<b>VERTICAL POWER ARRAY</b> (OPAL LENS)	<input type="checkbox"/> 80LED (89 Watts) <input type="checkbox"/> 64LED (72 Watts) <input type="checkbox"/> 48LED (53 Watts)			<b>POST TOP</b>		<input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NON-INTEGRATED MOTION SENSOR ..... HLSW
	<input type="checkbox"/> VPA - SYM ..... 	Wattages are Max Input Watts			<input type="checkbox"/> PT ..... 		<input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PCT20V) ... PC+V
							<input type="checkbox"/> 10KV SURGE PROTECTOR ..... 10SP
							<input type="checkbox"/> 20KV SURGE PROTECTOR (277V & 480V Only) ... 20SP