

## DESCRIPTION

The LCA Series Lab/Cleanroom LED Recessed Grid or Flanged Flat Panel is designed for cleanrooms, biosafety labs, and medical environments offering ligature-resistant and tamper-proof lighting. It is suitable for Class 1 (ISO 3) Cleanrooms and Biosafety labs rated 1 through 4 depending on the doorframe configuration. Offered in 1' x 1', 1' x 2', 1' x 4', 2' x 2', and 2' x 4' sizes with static CCT between 2700K–5000K and lumen packages from 1,000 to 25,000 lumens, the LCA delivers durable, high-performance illumination.

## SPECIFICATIONS

### Construction:

- Cold rolled steel or stainless steel enclosure
- Die-formed, TIG and spot welded
- Durable TGIC polyester powder coating featuring a 5-stage pre-treatment for superior adhesion and corrosion protection
- Available in Brushed, Polished, White or Antimicrobial White Paint that inhibits growth of bacteria on the fixture surface
- Tested to 1,000 hours salt spray with 92% reflectance
- Door-frame secured to housing with stainless steel aircraft cables and phillips head stainless steel fasteners
- Closed-cell gasket completely seals the doorframe and the housing
- Ligature-resistant design with Inset Door configuration
- Tamper resistant T25 Torx hardware

### Optics/LEDs:

- Clear or diffused lens for uniform LED diffusion
- Lumen packages from 1,000 to 25,000 lumens
- 2700K, 3000K, 3500K, 4000K, 5000K CCT
- CRI ≥ 80, optional 90 CRI (Option: 90)
- Efficacy up to 165 lumens per watt
- L70 > 100,000 hours

### Electrical:

- Universal 120/277VAC, 50/60Hz
- 0-10V Dimming driver
- Power Factor ≥ 0.90
- 347-480VAC option (Option: HVS)

### Options:

- Integral Battery Backup provides 14 watts of emergency illumination during power loss (Option: BB)
- Tamper-resistant Allen head screws with center pin for enhanced security over standard Torx with center pin. (Option: AH)
- LED Night Light offers low-level lighting without full illumination (Option: LN)
- IP65 or IP66 Rated sealed construction suitable for Wet Locations and high-pressure wash-down. (Option: WL)
- High color-rendering LEDs with ≥90 CRI for improved color accuracy (Option: 90)
- Fully integral microwave sensor for automatic occupancy control (Option: SC)

### Warranty:

- Five Year Warranty (Terms and Conditions Apply)

Model: \_\_\_\_\_ Date: \_\_\_\_\_  
Accessories: \_\_\_\_\_  
Job Name: \_\_\_\_\_ Type: \_\_\_\_\_



## APPLICATIONS

- Pharmaceutical
- Kitchen and Food Prep
- Biosafety and Containment
- Anterooms
- Isolation Areas
- Vivariums
- Cleanrooms
- Containment Areas
- Laboratories
- Research and Development
- Meat Processing Facilities
- Behavioral Health



OPTIONAL

## Installation:

- Universal mounting allows for both recessed flanged and recessed grid mounting
- Recessed design fits most standard T-bar grid ceilings
- Easy installation with adjustable 90° swing arm system standard

## Testing & Compliance:

- cETL Listed
- Optional Wet Location, rated IP65 with Inset Door, IP66 with Overlap Door (Option: WL)
- Biosafety labs rated 1 and 2 with Inset Door
- Biosafety labs rated 3 and 4 with Overlap Door
- Class 1 (ISO 3) Cleanrooms
- Buy American Act compliant
- Build America, Buy America Act compliant
- IC Rated
- Operating temperatures: -30°C to 50°C (-22°F to 122°F)

Specs at a Glance					
Model	LCA-11	LCA-12	LCA-14	LCA-22	LCA-24
Wattage (W)*	6.25W - 12.5W	6.25W - 12.5W	6.25W - 68.8W	6.25W - 81.3W	6.25W - 156.3W
Lumens (lm)	1,000 - 2,000	1,000 - 2,000	1,000 - 11,000	1,000 - 13,000	1,000 - 25,000
Efficacy (LPW)	Up to 165				
CCT (K)	2700K, 3000K, 3500K, 4000K, 5000K				
CRI	≥80, Optional 90				
Input Voltage	120/277VAC, 50/60Hz				
Operating Temp	-30°C to 50°C (-22°F to 122°F)				
Certifications	cETL Listed, Optional Wet Location (IP65 or IP66)				
Warranty	5 Years				

\* Nominal Wattage, tested at 4000K CCT. See performance table for details.

Note: Environment and application will affect actual performance. Typical values and 25°C (77°F) used for testing. Specifications subject to change without notice.

**ORDERING INFORMATION** (Example: LCA-11-6-PA1-VS-27K-A-14-A-14-I-F-AM-BB)

Model	Size	Wattage	Lens	Voltage	CCT	Housing Material
LCA	11' = 1' x 1'	6 = 6 Watt	PA1 = .125 Prismatic Acrylic	VS = 120/277VAC	27K = 2700K	A <sup>4</sup> = Aluminum
	12' = 1' x 2'	12 = 12 Watt	PA2 = .156 Prismatic Acrylic	HVS = 347-480VAC	3K = 3000K	C <sup>5</sup> = Cold Rolled Steel
	14' = 1' x 4'	25 = 25 Watt	PA3 = .156 Prismatic Acrylic #19		35K = 3500K	S <sup>6</sup> = Stainless Steel
	22' = 2' x 2'	43 = 43 Watt	PA4 = .187 Prismatic Acrylic		4K = 4000K	
	24 = 2' x 4'	68 = 68 Watt	CP1 = .125 Clear Polycarbonate		5K = 5000K	
		75 = 75 Watt	SY = Symmetric Diffused DR Acrylic			
		81 = 81 Watt	PP = Prismatic Inner with .125			
		93 = 93 Watt	Clear Outer Polycarbonate			
		100 = 100 Watt				
		125 = 125 Watt				
		156 = 156 Watt				

Housing Gauge Size	Door Material	Door Gauge Size	Door Type <sup>8</sup>	Mounting	Finish	Driver
14 = 14 Gauge	A <sup>4</sup> = Aluminum	14 = 14 Gauge	I = Inset Door	F = Flange	AM = Antimicrobial White	BLANK = 0-10V 1% Dimming Driver
18 = 18 Gauge	C <sup>7</sup> = Cold Rolled Steel	18 = 18 Gauge	O = Overlap Door	G = Grid	B = Brushed	
20 = 20 Gauge	S <sup>6</sup> = Stainless Steel				P = Polished	
					WH = White	

**Options (Factory Installed)**

90 = 90 CRI  
 AH = Allenhead Screws w/ Center Pin  
 BB = 14 Watt Battery Backup  
 LNXX<sup>9</sup> = LED Night Light  
 SC = Integral Microwave Sensor  
 WL<sup>10</sup> = Wet Location (IP65 or IP66)

**Notes**

<sup>1</sup> Only available in 6 and 12 Watt  
<sup>2</sup> Only available in 6, 12, 25, 43, and 68 Watt  
<sup>3</sup> Only available in 6, 12, 25, 43, 68, 75, 81 Watt  
<sup>4</sup> Only available in 14 Gauge with White Finish  
<sup>5</sup> Only available in 18 and 20 Gauge with White Finish  
<sup>6</sup> Only available in 18 Gauge  
<sup>7</sup> Only available in 18 Gauge with White Finish  
<sup>8</sup> Anti-Ligature only available with Inset Door  
<sup>9</sup> XX Specify CCT  
<sup>10</sup> Rated IP65 with Inset door, IP66 with Overlap Door

**PERFORMANCE DATA**

Model	Wattage	CCT	Lumens	LPW	CRI
LCA-XX-6	6.25W	2700K	910	146	≥80
LCA-XX-6	6.25W	3000K	940	150	≥80
LCA-XX-6	6.25W	3500K	970	155	≥80
LCA-XX-6	6.25W	4000K	1000	160	≥80
LCA-XX-6	6.25W	5000K	1030	165	≥80
LCA-XX-12	12.5W	2700K	1820	146	≥80
LCA-XX-12	12.5W	3000K	1880	150	≥80
LCA-XX-12	12.5W	3500K	1940	155	≥80
LCA-XX-12	12.5W	4000K	2000	160	≥80
LCA-XX-12	12.5W	5000K	2060	165	≥80
LCA-XX-25	25W	2700K	3640	146	≥80
LCA-XX-25	25W	3000K	3760	150	≥80
LCA-XX-25	25W	3500K	3880	155	≥80
LCA-XX-25	25W	4000K	4000	160	≥80
LCA-XX-25	25W	5000K	5000	165	≥80

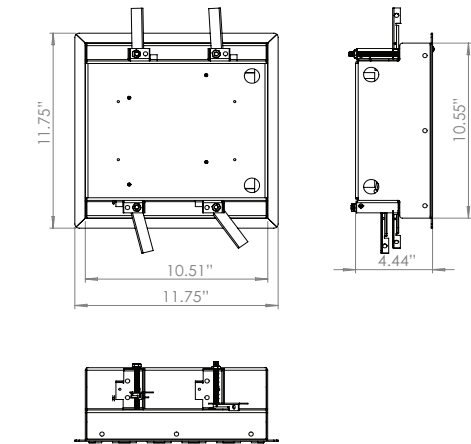
**PERFORMANCE DATA** (continued)

Model	Wattage	CCT	Lumens	LPW	CRI
LCA-XX-43	43.8W	2700K	6370	145	≥80
LCA-XX-43	43.8W	3000K	6580	150	≥80
LCA-XX-43	43.8W	3500K	6790	155	≥80
LCA-XX-43	43.8W	4000K	7000	160	≥80
LCA-XX-43	43.8W	5000K	7210	165	≥80
LCA-XX-68	68.8W	2700K	10010	145	≥80
LCA-XX-68	68.8W	3000K	10340	150	≥80
LCA-XX-68	68.8W	3500K	10670	155	≥80
LCA-XX-68	68.8W	4000K	11000	160	≥80
LCA-XX-68	68.8W	5000K	11330	165	≥80
LCA-XX-75	75W	2700K	10920	146	≥80
LCA-XX-75	75W	3000K	11280	150	≥80
LCA-XX-75	75W	3500K	11640	155	≥80
LCA-XX-75	75W	4000K	12000	160	≥80
LCA-XX-75	75W	5000K	12360	165	≥80
LCA-XX-81	81.3W	2700K	11830	146	≥80
LCA-XX-81	81.3W	3000K	12220	150	≥80
LCA-XX-81	81.3W	3500K	12610	155	≥80
LCA-XX-81	81.3W	4000K	13000	160	≥80
LCA-XX-81	81.3W	5000K	13390	165	≥80
LCA-XX-93	93.8W	2700K	13650	146	≥80
LCA-XX-93	93.8W	3000K	14100	150	≥80
LCA-XX-93	93.8W	3500K	14550	155	≥80
LCA-XX-93	93.8W	4000K	15000	160	≥80
LCA-XX-93	93.8W	5000K	15450	165	≥80
LCA-XX-100	100W	2700K	14560	146	≥80
LCA-XX-100	100W	3000K	15040	150	≥80
LCA-XX-100	100W	3500K	15520	155	≥80
LCA-XX-100	100W	4000K	16000	160	≥80
LCA-XX-100	100W	5000K	16480	165	≥80
LCA-XX-125	125W	2700K	18200	146	≥80
LCA-XX-125	125W	3000K	18800	150	≥80
LCA-XX-125	125W	3500K	19400	155	≥80
LCA-XX-125	125W	4000K	20000	160	≥80
LCA-XX-125	125W	5000K	20600	165	≥80
LCA-XX-156	156.3W	2700K	22750	146	≥80
LCA-XX-156	156.3W	3000K	23500	150	≥80
LCA-XX-156	156.3W	3500K	24250	155	≥80
LCA-XX-156	156.3W	4000K	25000	160	≥80
LCA-XX-156	156.3W	5000K	25750	165	≥80

DIMENSIONS

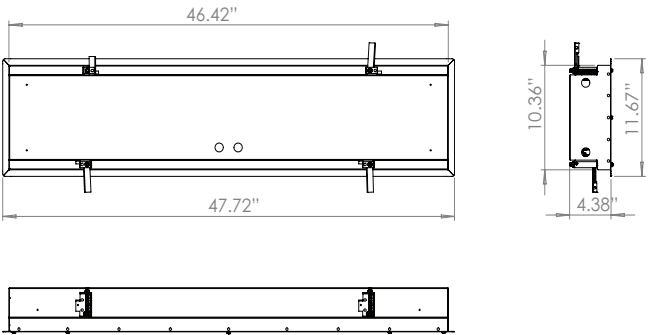
1' x 1'

ROUGH IN SIZE 10 13/16" x 10 3/4"



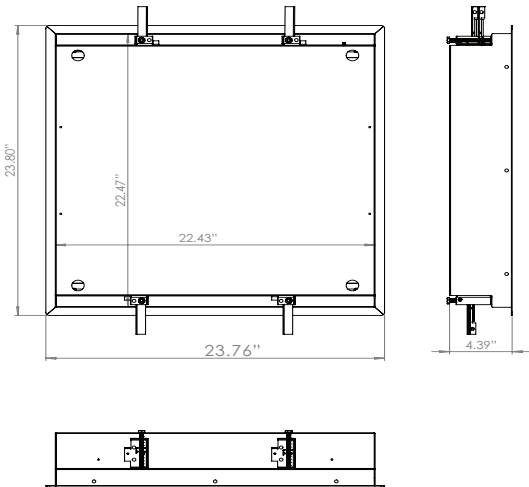
1' x 4'

ROUGH IN SIZE 46 11/16" x 10 5/8"



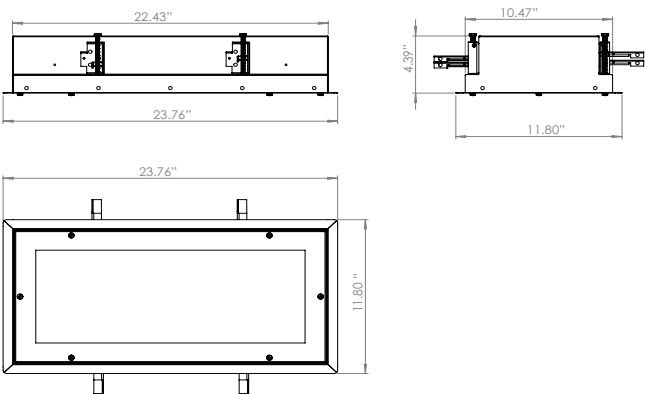
2' x 2'

ROUGH IN SIZE 22 5/8" x 22 5/8"



1' x 2'

ROUGH IN SIZE 22 11/16" x 10 5/8"



2' x 4'

ROUGH IN SIZE 46 5/8" x 22 11/16"

