

CRS-LOW PROFILE (Red & Amber)

Certolux Cleanroom Surface Mount Low Profile Troffer

Project:	Catalog:	Type:
Notes:		

Product Description

The CRS-Low Profile series by Certolux is a specification-grade, LED surface mount, overlapping door, IP65 luminaire, for ISO Class 3 - 8 Cleanrooms. The overlapping single piece door design provides for a continuous seal to the housing. Completely sealed unit to minimize insect and vermin infiltration. For use in Hazardous Locations, consult ordering key. Suitable for use in Biosafety spaces levels 1-4.

Features

- Emergency LED battery pack
- Red LED array
- IP65 rated
- Single piece, beveled doorframe
- Shallow design

Featured Options

- Emergency LED battery pack
- Red and Amber LED array
- Row-mounting
- Range of lens options (see page 2, ordering key)
- DALI dimming



Construction

Precision formed, TIG welded, one piece 16 to 20 gauge cold rolled steel housings. Welded studs are used in order to mount components, offering superior performance over PEM style fasteners.

Mounting

Mounting holes are provided on the back of the housing.

Door Frame

One piece 60° beveled perimeter door frame, fabricated from 18 gauge, cold rolled steel with TIG welded corners. It is retained by stainless steel aircraft cable when opened. Specialized, military grade, flat head, stainless steel, captive fasteners with integral teflon washers easily secure door frame to housing through use of floating cage nuts.

Door Frame Gasket

Custom shaped, extruded closed cell silicone gasketing is used throughout to ensure precise, seals between door assembly and housing. Vulcanized corners ensure continuity of the seal on the frame gasket. Continuous retention-mounts mechanically secure and evenly distribute force against both gasketing and diffuser.

Reflector

Painted white reflector is standard, optional VF1 reflectors are available which are made of specular anodized aluminum with a minimum reflectivity of 95% (see product ordering guide).

Lens & Lens Retention

Standard lens: Impact resistant 0.125" diffuse acrylic lens. All lens choices provide a smooth external surface for easy cleaning. Sealed to doorframe with RTV silicone sealant and retained by continuous perimeter brackets. Other lens options available. (see product ordering guide).

Finish

5 stage pretreatment, electrostatically applied gloss white polyester powdercoat finish. Antimicrobial Matte white polyester powdercoat finish available.

Electrical

Long life LED's coupled with high efficiency drivers provide quality illumination. Rated to deliver an L80 performance >50,000 hours. The standard driver has a THD of <10%. Standard low-voltage dimming (0-10v, 1%). All electrical components are CSA or UL approved.

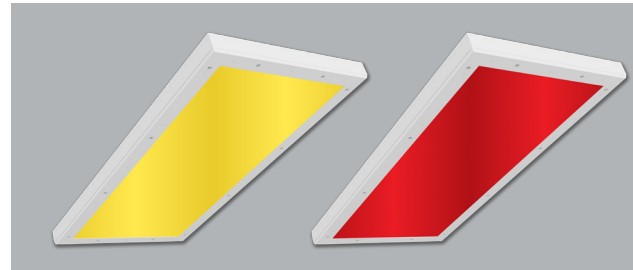
Warranty

5-year limited warranty. For complete warranty, click here:

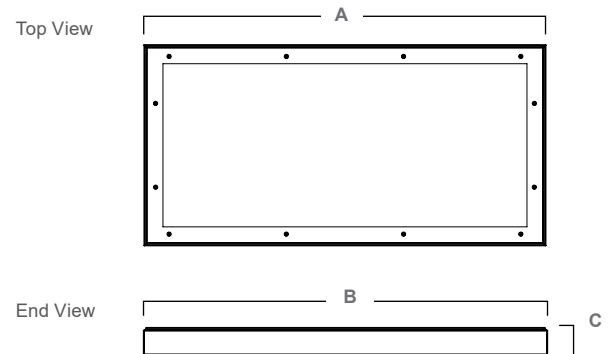


Approvals

- ETL Listed to UL1598 and CSA22.2 no 250.0.
- Listed for wet locations (Ceiling Mount only).
- RoHS Compliant.



Dimensions



Dimensions (inch)			
Size	A	B	C
1x2	23.75	11.75	2.5
1x4	47.75	11.75	2.5
2x2	23.75	23.75	2.5
2x4	47.75	23.75	2.5

Consult the installation guide for exact dimensions.

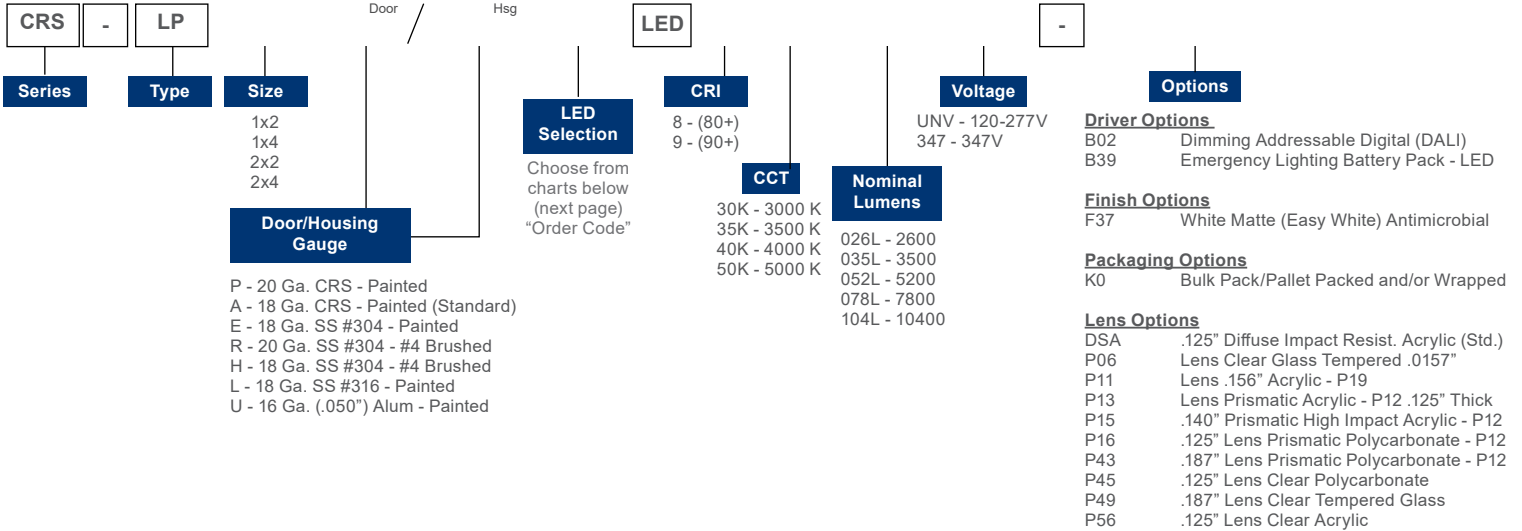
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Order Key

EXAMPLE: CRS-LP2x4A/PLED835K075LUNV-P13



* Not available with Occupancy/Motion Sensors and 1% dimming
 ** Must be combined with a diffusing lens material such as P82 or P13.
 *** Not available in 1x2

Other options may be available, consult factory. Specifications and data subject to change without notice.

Performance Data

White LED Performance Data			
Size	Nominal Lumens	Watts	Temp. Code (XH Only)
1x2	2600	25	T4
	3500	333	
1x4	2600	25	T4
	3500	47	
	7800	75	
	10400	98	
2x2	2600	25	T4
	3500	33	
	5200	47	
	7800	75	
2x4	5200	47	T4
	7800	75	
	10400	98	
	15000	147	

* Lumen values are based on 4000K, 80 CRI performance. See Lumen Multipliers below for other CCT or CRI performance data.

Performance Data

RED only LED Performance Data			
Size	Order Code	Lumens	Watts
1x4	-/10R	1000	31
2x2	-/10R	1000	30
2x4	-/10R	1000	27
	-/20R	2000	62

Omit CRI and CCT order codes when selecting a red or amber only fixture (without white LEDs).

RED LED Array			
Size	Rows of LED	Lumens	Watts
1x4	1	2045	54
	2	4090	108
2x2	1	1020	27
	2	2045	54
2x4	1	2045	54
	2	4090	108

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Red & White Performance Data							
Size	Order Code	White LED Performance*			RED Performance		Total System Watts
		Lumens	Watts	Efficacy	Lumens	Watts	
1x4	35L / 10R	3585	32	112	1000	31	63
	55L / 10R	5538	51	109	1000	31	82
	70L / 10R	7064	68	104	1000	31	99
2x2	35L / 10R	3564	31	115	1000	30	61
	55L / 10R	5571	50	111	1000	30	80
	70L / 10R	7035	65	108	1000	30	95
2x4	55L / 10R	5517	45	123	1000	27	72
	55L / 20R	5517	45	123	2000	62	107
	70L / 10R	7085	59	120	1000	27	86
	70L / 20R	7085	59	120	2000	62	121
	100L / 10R	10093	80	126	1000	27	107
	100L / 20R	10093	80	126	2000	62	142
	120L / 10R	12096	99	122	1000	27	126
	120L / 20R	12096	99	122	2000	62	161
	180L / 10R	18103	143	127	1000	27	170

RED only LED Performance Data			
Size	Order Code	Lumens	Watts
1x4	-/10R	1000	31
2x2	-/10R	1000	30
2x4	-/10R	1000	27
	-/20R	2000	62

Omit CRI and CCT order codes when selecting a red or amber only fixture (without white LEDs).

Amber & White Performance Data							
Size	Order Code	White LED Performance*			AMBER Performance		Total System Watts
		Lumens	Watts	Efficacy	Lumens	Watts	
1x4	35L / 35A	3585	32	112	3500	47	79
	35L / 55A	3585	32	112	5500	74	106
	35L / 70A	3585	32	112	7000	94	126
	70L / 35A	7064	68	104	3500	47	115
2x2	35L / 35A	3564	31	115	3500	46	77
	35L / 55A	3564	31	115	5500	76	107
	55L / 70A	3564	31	115	7000	97	128
	70L / 35A	7035	65	108	3500	46	111
2x4	55L / 35A	5517	45	123	3500	41	86
	55L / 55A	5517	45	123	5500	61	106
	55L / 70A	5517	45	123	7000	81	126
	70L / 35A	7085	59	120	3500	41	100
	70L / 55A	7085	59	120	5500	61	120
	70L / 100A	7085	59	120	10000	122	181
	100L / 35A	10093	80	126	3500	41	121
	100L / 55A	10093	80	126	5500	61	141
	100L / 70A	10093	80	126	7000	81	161
	100L / 100A	10093	80	126	10000	122	202

AMBER only LED Performance Data			
Size	Order Code	Lumens	Watts
1x4	-/35A	3500	47
	-/55A	5500	74
	-/70A	7000	94
2x2	-/35A	3500	46
	-/55A	5500	76
	-/70A	7000	97
2x4	-/35A	3500	41
	-/55A	5500	61
	-/70A	7000	81
	-/100A	10000	122

For a fixture with only Red or Amber LEDs (no white LEDs) omit the CCT and CRI choices and replace with a dash line (-).

* Lumen values are based on 4000K, 80 CRI performance. See Lumen Multipliers below for other CCT or CRI performance data.

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EM Ordering Guide

EM Function	Order Code	Description	Notes
Standard EM	B39	10W EM battery pack	Standard 10W output, 90 minute run time in emergency mode.
High Wattage EM	B39(20W)	20W EM battery pack	Standard 20W output, 90 minute run time in emergency mode.
347V EM	347...B39	8W 347V EM	Fixture part number indicates 347V input voltage.
347 High Wattage EM	347...B39(20W)	20W 347V EM battery pack	Fixture part number indicates 347V input voltage.
Self Testing EM	B39(SD)	10W Self test EM	Self test instructions provided with each fixture. Digital copies available as needed.
Cold Weather	B06...B39	10W Cold Weather EM suitable to -20C	Standard EM pack 0°C minimum temp.
120 Minute EM	B39(2HR)	EM with 120 minute minimum run time	Standard 14W output, 120 minute run time in emergency mode.
Specified EM	B39(xx)	Customer to specify brand, model number and/or feature.	xx Indicates model number of specified by Viscor.