

Project:	Catalog:	Type:
Notes:		

Product Description

The CRS-3555 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 sealed housing. Completely sealed unit to minimize insect and vermin infiltration. For use in Hazardous Locations, consult ordering key. NSF2 for Splash zone and non-food zones Optional Food Zone certification. (see ordering key). Suitable for use in Biosafety Levels 1-4 spaces.

Feature Options

- Emergency LED Battery Pack
- Red LED Array
- IP65 Rated

Optical System

Precision formed, TIG welded, one piece 18 gauge cold rolled steel housing. 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 silicone o-rings easily secure door frame to housing through use of floating cage nuts. Silicone o-rings offer superior performance and longer life over comparable teflon bushings.

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

White, polyester powder painted housing.

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. A ½" EMT hole is provided for wiring connections (Surface Mount).

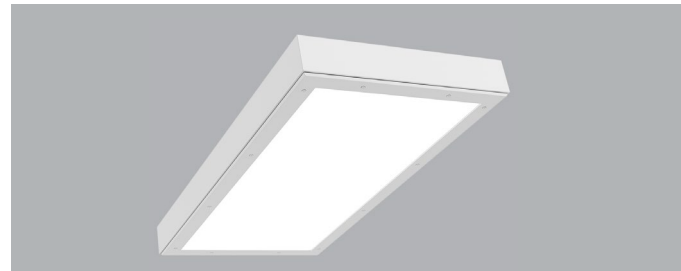
Warranty

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

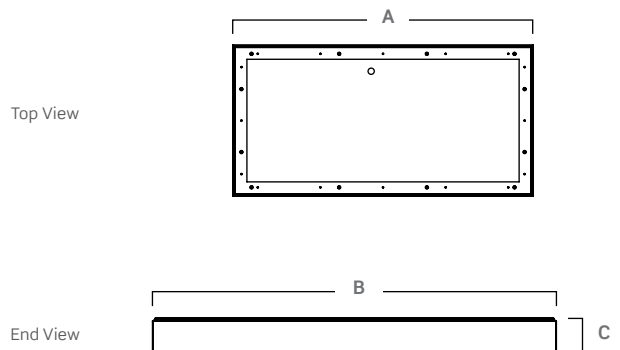


Approvals

- Approved to CSA and UL standards.
- NSF Listed
- Listed for wet locations (Ceiling Mount only)
- Optionally Listed for Hazardous Location Class I, Zone 2, Zone 22. Class I, Div.2, Groups A, B, C, D. Class II, Div. 2, Groups F & G. Class III



Dimensions



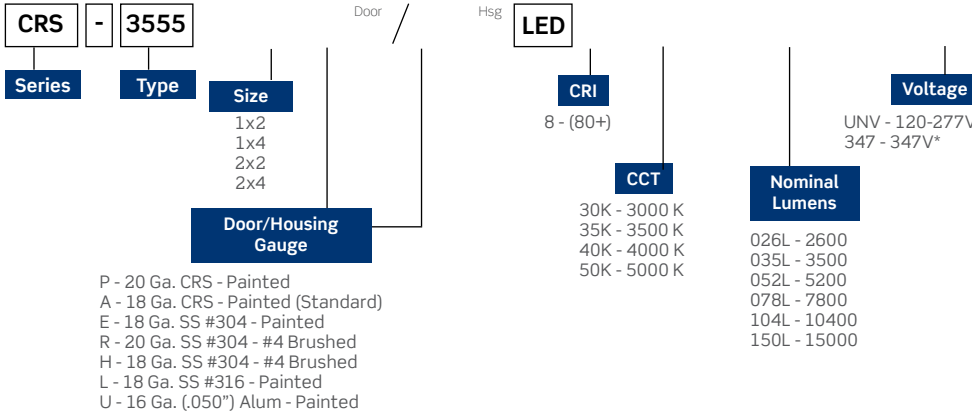
Dimensions (inch) & Weights			
	A	B	C
1x2	24"	12"	4.3"
1x4	48"	12"	4.3"
2x2	24"	24"	4.3"
2x4	48"	24"	4.3"

Consult installation guide for exact dimensions.

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Order Key

EXAMPLE: CRS-35552x4A/PLED835K075LUNV-P13



Driver Options

- B02 Dimming Addressable Digital (DALI)
- B39 Emergency Lighting Battery Pack - LED
- B39(XH) Haz. Loc. Emergency Batt. Pack

Construction Options

- C64 Natatorium Finish (To be used with U/U material options)

Packaging Options

- K0 Bulk Pack/Pallet Packed and/or Wrapped

Mounting Options

- M56 Tandem Row - Start Fixture
- M57 Tandem Row - Mid Fixture
- M58 Tandem Row - End Fixture

Lens Options

- DSA .125" Diffuse Impact Resist. Acrylic (Standard)
- P56 .125 Lens Clear Acrylic
- P45 .125 Lens Clear Polycarbonate
- P13 Lens Prismatic Acrylic - P12 .125" Thick
- P16 .125 Lens Prismatic Polycarbonate - P12
- P15 .140 Prismatic High Impact Acrylic - P12
- P11 Lens .156 Acrylic - P19
- P18 Amber Lens Ultra-Violet Filter** (Not applicable for NSF)
- P06 Lens Clear Glass Tempered
- P43 .186 Lens Prismatic Polycarbonate - P12
- P49 .187 Lens Clear Tempered Glass
- P14 Lens Clear Glass Tempered with Prismatic Acrylic Overlay
- P82 White Translucent Acrylic .040
- P73 Lens White Translucent Polycarbonate

Fusing and Breaker Options

- T6 Fuseholder, In-Line Single Pole

Wiring Options

- V25 Radio Frequency Filter
- V39 Night Light - White LED
- V80 LED Red array - One Row***
- V81 LED Red array - Two Rows***

Reflector Options

- VF1 Full (95% Reflectance) Specular

Approval and Rating Options

- X5 NSF Food Zone-Non-contact
- X8 IP 65 Rated
- XH[†] Class I Zone 2 Groups IIC, IIB + H2, IIA Zone 22 Groups IIB, IIA (Class I Div 2 Groups A,B,C,D Class II Div 2 Groups F,G Class III) T3C or T4

* Emergency battery pack is not available with Haz Loc (HX)

** Must be combined with a diffusing lens material such as P82 or P13.

*** Not available in 1x2

[†] Not available with Occupancy/Motion Sensors and 1% dimming

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	

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

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

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V68 Microwave Occupancy Sensor

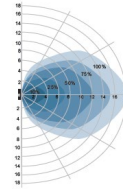
Description

- Dip Switch Settable step dim levels, hold-off and standby times, and daylight hold off level
- 120-277VAC Operating voltage
- Ideal for use in cleanrooms and vandal resistant fixtures

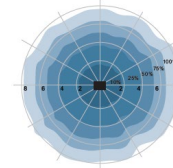


Detection Range

- Diameter*Height: 12m*6m Max



Wall mounting pattern (Unit: m)
Suggested installation height: 1-1.8m



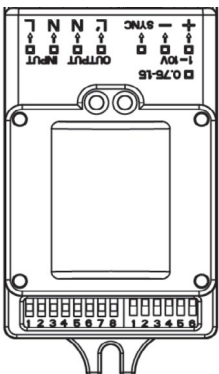
Ceiling mounting pattern (Unit: m)
Suggested installation height: 2.5-

Specifications

Input V	120-277 VAC
Operating Frequency	50/60 Hz
Dimming Load	0-10V Dimming Control
	Sinks <20mA
Operating Temperature	-35C to 55C
Programming	Dip Switch Settable

Max Mounting Height	40ft
Load Rating	400 VA @ 120 VAC
	800 VA @ 220-240 VAC
	1000 VA @ 277 VAC
Power Consumption	<0.5W (standby); <1W (operation)
Motion Detection	0.5 to 3m/w
Ratings	UL Listed

Programming



Detection Area

ON ↑ [Switch]		1	2	
	I	ON	ON	100%
	II	ON	-	75%
	III	-	ON	50%
	IV	-	-	10%

Hold Off Time

ON ↑ [Switch]		3	4	5	
	I	ON	ON	ON	5s
	II	-	ON	ON	30s
	III	ON	-	ON	90s
	IV	-	-	ON	3min
	V	ON	ON	-	20min
	VI	-	-	-	30min

Standby Time

ON ↑ [Switch]		6	7	8	
	I	ON	ON	ON	0s
	II	-	ON	ON	5s
	III	ON	-	ON	5min
	IV	-	-	ON	10min
	V	ON	ON	-	30min
	VI	-	ON	-	1h
	VII	-	-	-	+∞

Daylight Level

ON ↑ [Switch]		1	2	3	4	
	I	-	-	ON	ON	2Lux
	II	-	-	-	ON	5Lux
	III	-	ON	ON	-	10Lux
	IV	-	-	ON	-	25Lux
	V	-	ON	-	-	50Lux
	VI	ON	-	-	-	100Lux
	VII	-	-	-	-	Disable

Standby Level

ON ↑ [Switch]		5	6	
	I	ON	ON	50%
	II	-	ON	30%
	III	ON	-	20%
	IV	-	-	10%

Wiring Diagram:

