

Project:	Catalog:	Type:
Notes:		

Product Description

The CRTA series provides serviceability from walkable composite ceilings. Installed within and supported by a finished composite ceiling system of thicknesses of 2, 3, & 4 inches. Rated for 800lbs static load without fixture damage. An overlapping gasketed door frame seals the room at the ceiling. Gaskets are also provided at the lens and top cover to prevent dust, liquid or vapor penetration. ETL certified for wet locations, cleanroom rated ISO-3, certified dust tight and water resistant to IP65 for frequent rigorous cleaning practices. Tested according to ASTM-E72 and E2322 for strength and load resistance.

Features

- Up to 25000 lumens
- Convenient Lift Handles
- Serviceable from above

Options

- Emergency Battery Backup Options**
- Optional 90 CRI
- Enhanced Lens Luminance



Housing

Precision formed and welded 16 gauge cold rolled steel housing. Single top surface located knockout for power entry. Closed cell neoprene gasket provided to seal flange to ceiling.

Access Door

Inset, one-piece access door, fabricated from 16 gauge cold rolled steel with TIG welded corners. Neoprene gasket seals access door to housing. Reinforced with welded structural brackets to support walking loads. Regressed handle provided as lifting point. Optional textured finish available.

Lens Frame

Overlapping one-piece door frame, fabricated from 16 gauge, cold rolled steel with TIG welded corners. High performance neoprene gasket seals door frame to housing and ceiling. See options for additional material choices.

Lens

High diffusion, impact resistant 0.125" thick acrylic lens provides symmetric distribution. Smooth external surface for easy cleaning. Other lens options available. (See Ordering Key). No roomside hardware. (Electronics not intended to be serviced from the cleanroom side).

LED

LED board modules are high efficiency and closely regulated to maintain CRI, color consistency, lumen performance and efficacy. Select from 3000K, 3500K, 4000K and 5000K color temperatures with a color consistency of 3 SDCM, standard 80 CRI, optional 90 CRI. Optional Amber LED arrays available alone or in combination with white LEDs, Lifetime L70 is greater than 60,000 hrs. Modules are field replaceable and commercially available.

Electrical

The standard electronic driver is constant current, programmable and dimmable to 1% using a 0-10V protocol. High efficiency (>85%) and low THD (<10%). Meets requirements of FCC Part 15. 120-277Vac or 347Vac, 50/60hz. See "Options" for driver choices. Internal Emergency Drivers are serviceable from the walkable ceiling.

Finish

Standard finish is gloss white polyester powder coating with 5-stage pre-treatment. Optional Anti-microbial gloss white polyester powder coat finish with 5-stage pre-treatment. Satin polished #4 brushed finish available for stainless steel doorframes.

Mounting/Installation

Installed in precut holes within ceiling panels of 2, 3 & 4 inches thickness. Conduit entry through 1/2" trades-size conduit access hole. (See chart for ceiling cutout details). Hazardous location connections through a provided 1/2" trade size threaded hub. Option for side wall entrance available.

Listings, Certifications and Ratings

ETL Certified for recessed ceilings and wet locations under covered ceiling. Recessed Type non-IC ceilings. NSF2 for Non-food zone, Splash Zone. IEC60598 IP65 Certified from below. Cleanroom classified ISO3-8. Optional certified for Class I, Div. 2 Groups A,B,C,&D.

Warranty

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

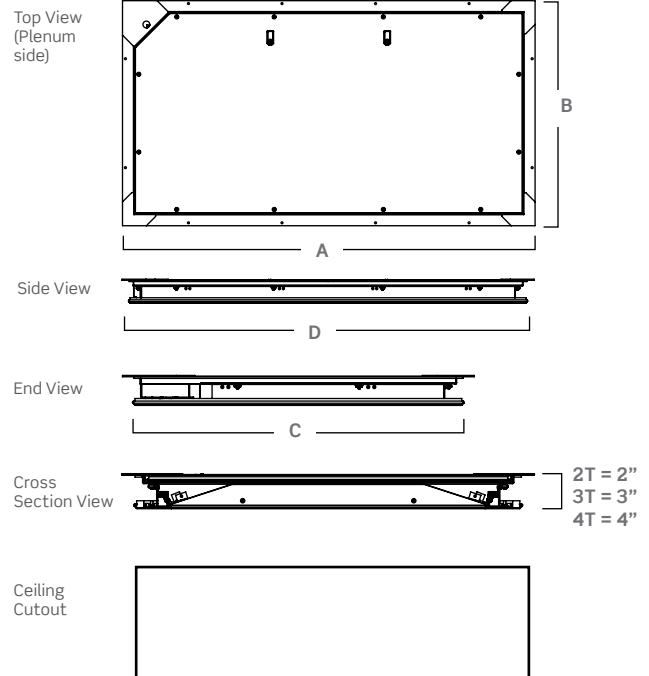


Approvals

- ETL Certified for recessed ceilings and wet locations
- Certified IP65 and NSF2
- Cleanroom class ISO3-8



Dimensions



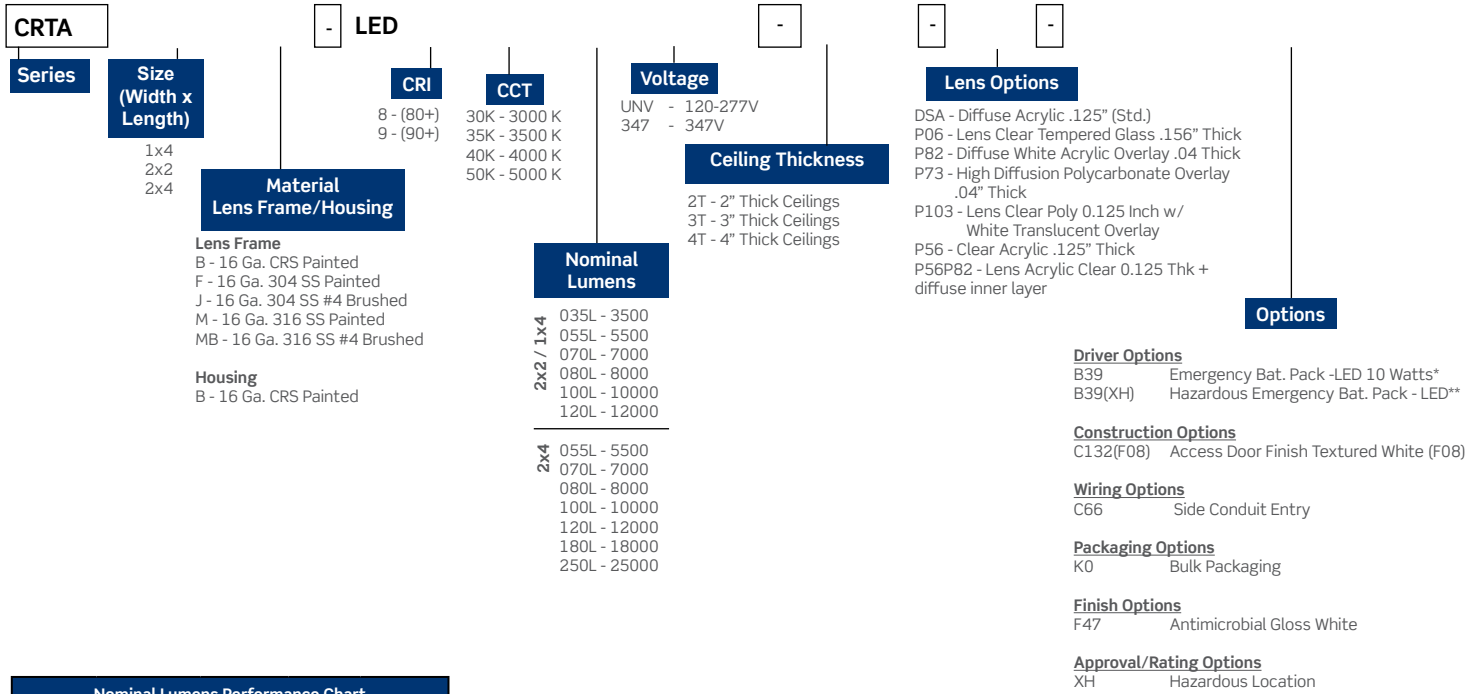
Ceiling Cut-Out Dimensions (Inches)			Plenum Side		Room Side	
Size	Width	Length	A	B	C	D
1x4	14.25"	50.25"	52.926"	16.926"	15.234"	51.234"
2x2	26.25"	26.25"	28.926"	28.926"	27.234"	27.234"
2x4	26.25"	50.25"	52.926"	28.926"	27.234"	51.234"

Consult installation guide for exact dimensions.

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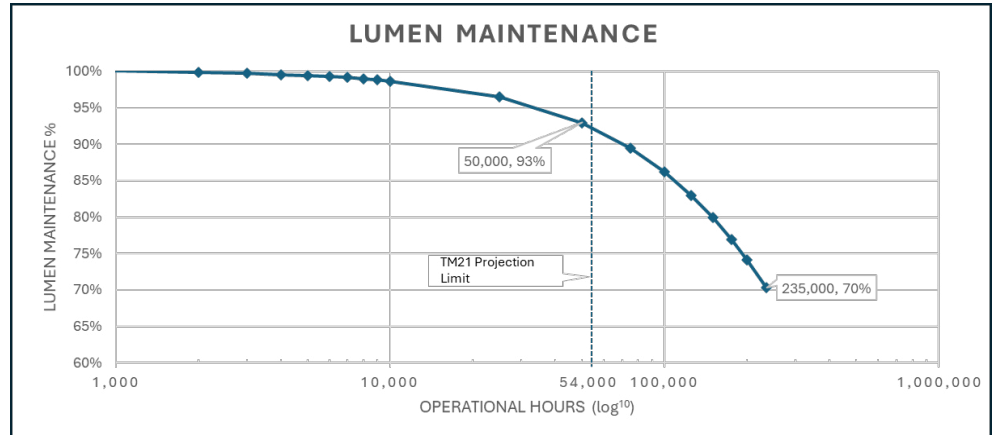
Order Key

Example: CRTA2X4B/B-LED840K70LUNV-2T-DSA



* Consult factory for EM pack availability and location
** 0°C operation limit for Emergency Packs (B39XH)

Nominal Lumens Performance Chart				
Size	Order Code	Lumens (4000K)	Watts	Efficacy
1x4	035L	3501	28	125.0
	055L	5503	41	134.2
	070L	7003	52	134.7
	080L	8020	62	129.0
	100L	10004	75	133.4
	120L	12194	90	135.5
2x2	035L	3557	26	136.8
	055L	5589	40	139.7
	070L	7113	51	139.5
	080L	8042	62	120.0
	100L	10161	73	139.2
	120L	12180	88	138.4
2x4	055L	5601	41	136.6
	070L	7128	52	137.1
	080L	8094	61	132.0
	100L	10183	74	137.6
	120L	12220	89	137.3
	180L	18330	135	136.0
250L	24929	178	137.0	



LED Performance Multipliers		
CRI	CCT	Lumen Multipliers
80 CRI	3500K	0.98
	4000K	1.00
	5000K	1.04
90 CRI	3500K	0.83
	4000K	0.85
	5000K	0.90