

CLEANROOM ECR220

CLASS 100 FLANGED CLEANROOM LUMINAIRE

JOB	
TYPE	
DATE	

Recessed Flanged



Overall dimensions including flange: 25 5/8" x 50" Required ceiling opening: 24 1/2 " x 48 1/2"



Overall dimensions including flange: 25 5/8" x 26" Required ceiling opening: 24 1/2 " x 24 1/2"

SPECIFICATIONS

Construction

- Class 100 / ISO Class 5 equivalent
- 22 gauge cold-rolled steel welded housing
- 20 gauge cold-rolled steel door frame secured by full length piano hinge and 2 captive screws
- Door frame and lens sealed with closed cell neoprene gasket
- 18 gauge cold-rolled steel trim flange
- · All parts fitted and sealed, no unused holes or knockouts

Finish

- Painted after fabrication
- · Baked white powder-coated finish
- Minimum reflectance 90%

Optica

• Inverted clear prismatic acrylic lens (nominal 0.125" thickness)

Electrical

- High efficiency drivers coupled with long-life LEDs
- Service life greater than 50,000 hours (L70)
- Universal voltage 120V through 277V (347V / 480V available)
- Power Factor (PF) ≥ 0.9
- Total Harmonic Distortion (THD) ≤ 20%

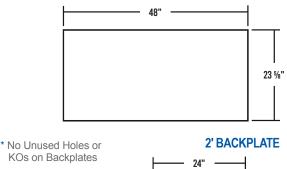
Listing

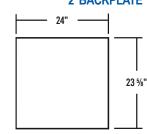
• UL USA and Canada listed / suitable for damp locations

Warranty

• 5-Year limited warranty standard. 10-Year limited warranty also available







4' BACKPLATE

APPLICATIONS

· Cleanroom, Sealed Ceiling Areas, Commercial

FEATURES

- 0-10V dimming driver standard
- Supports California Title 24 compliance

OPTIONS

- · Range of lumen packages and color temperatures
- Tunable white (2700K 6500K)
- · Colored LEDs, including True/Native Amber
- Sensors and controls
- · Lens options
- Antimicrobial finish
- Wet location
- Emergency battery pack
- Tamper-proof screws
- Hanger yokes
- · Customization available upon request











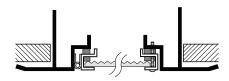


ORDERING INFORMATION: Additional Options Available. Visit www.lalighting.com/resources for more information

CR220				FRAME						ROWS	
										2	
Hi; 2 4 6 8 8 Hi; 2 4 4 6 8 8	2 - 2000 lm 4 - 4000 lm 6 - 6000 lm 8 - 8000 lm 12 - 12000 lm 12 - 12000 lm 14E - 4000 lm 6HE - 6000 lm 8 - 8000 lm 12 - 12000 lm 13 - 12000 lm 14 - 4000 lm 15 - 12000 lm 16 - 6000 lm 17 - 12000 lm 18 - 8000 lm 19 - 12000 lm	2L • 2'	AMF • Antimicrobial Finish *Leave blank if not specified	FSW • Flat Steel White Enamel Door Frame	PA2 Clear Prismatic Acrylic 0.125" FPA2 Frosted Prismatic Acrylic 0.125" DRP8 High-Impact Clear Prismatic Acrylic 0.187" FFWA Flat Frosted White Acrylic	WL • Wet Location TP • Tamper Proof Screws (Hex Socket with Post) GSKN3 • Three-Way Gasket *Leave blank if not specified	BPL1.5 • 1500 Im emergency battery pack *Leave blank if not specified	DRDM O-10V Dimming Driver DRDM2C C-Channel O-10V Dimming Driver (for Color Tunable White) DRSD Step Dimming Driver DR2W 120V 2-Wire Phase Dimming Driver (Must Specify 120V in Voltage Column)	UNV • 120V-277V	• Two LED Rows	827

DOOR FRAME

CROSS SECTION



FEATURES

- Full Length Piano Hinge
- Inverted Lens
- Two 10-24 Captive Machine Screws
- Sealed with Closed Cell Neoprene Gasket



OPTICAL OPTIONS

STANDARD LENSES FOR FCR220 - Prismatic lenses are inverted to position the flat side facing down.

PA2 Clear Prismatic Acrylic, Nom. 0.125" OA Thickness, Female Prisms 3/16" Square Base, Pattern 12

FPA2 Frosted Prismatic Acrylic, Nom. 0.125" OA Thickness, Female Prisms 3/16" Square Base, Pattern 12

DRP8 High-Impact Clear Prismatic Acrylic, Nom. 0.187" OA Thickness, Female Prisms 3/16" Square Base, Pattern 12

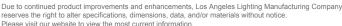
FFWA Flat Frosted White Acrylic, No Thickness Specified









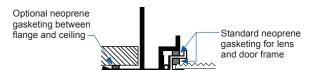




NEOPRENE GASKET

3-WAY

Additional gasket between flange and ceiling.



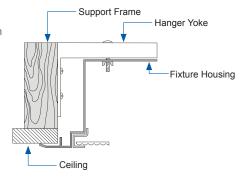


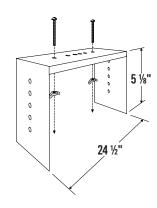
MOUNTING HARDWARE

HANGER YOKES: HS-24 1/2

- · Used to secure recessed flanged fixtures to support frame in hard ceilings
- Provided screws secure hanger yoke to fixture
- Two hanger yokes required for each 4' fixture.

Note: Housing does not have knockouts for hanger yokes. Installer must drill required holes, staying clear of electrical components. Suitable caulking compound must be used to seal holes after installation.





SYSTEM DATA: Additional Lumen Packages Available. Contact Customer Service for More Information

2'	LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
20	00 Lumens (Nominal)	FCR220-2-2L-FSW-PA2-DRDM-UNV-2/840	1548	12.5	124.2 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F24T5HO 2x F17T8	*
40	00 Lumens (Nominal)	FCR220-4-2L-FSW-PA2-DRDM-UNV-2/840	3039	25.5	119.0 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F24T5HO 4x F17T8	*
60	00 Lumens (Nominal)	FCR220-6-2L-FSW-PA2-DRDM-UNV-2/840	4443	39.1	113.7 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F24T5HO 6x F17T8	*
80	00 Lumens (Nominal)	FCR220-8-2L-FSW-PA2-DRDM-UNV-2/840	5889	53.1	111.0 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F24T5HO	*
120	000 Lumens (Nominal)	FCR220-12-2L-FSW-PA2-DRDM-UNV-2/840	8880	78.0	113.8 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F54T5HO 6x F24T5HO	*

Normal Temp High Efficacy

2' LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
2000 Lumens (Nominal)	FCR220-2HE-2L-FSW-PA2-DRDM-UNV-2/840	1574	12.3	128.0 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F24T5HO 2x F17T8	*
4000 Lumens (Nominal)	FCR220-4HE-2L-FSW-PA2-DRDM-UNV-2/840	3097	24.9	124.5 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F24T5HO 4x F17T8	*
6000 Lumens (Nominal)	FCR220-6HE-2L-FSW-PA2-DRDM-UNV-2/840	4598	37.8	121.7 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F24T5HO 6x F17T8	*
8000 Lumens (Nominal)	FCR220-8HE-2L-FSW-PA2-DRDM-UNV-2/840	6162	50.9	121.0 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F24T5HO	*





SYSTEM DATA: Additional Lumen Packages Available. Contact Customer Service for More Information



4'	LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
20	00 Lumens (Nominal)	FCR220-2-4L-FSW-PA2-DRDM-UNV-2/840	1682	12.4	136.2 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F32T8	*
40	00 Lumens (Nominal)	FCR220-4-4L-FSW-PA2-DRDM-UNV-2/840	3353.2	24.9	134.4 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F54T5HO 2x F32T8	*
60	00 Lumens (Nominal)	FCR220-6-4L-FSW-PA2-DRDM-UNV-2/840	4978	37.8	131.8 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F32T8	*
80	00 Lumens (Nominal)	FCR220-8-4L-FSW-PA2-DRDM-UNV-2/840	6581	50.9	129.2 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F32T8	*
120	000 Lumens (Nominal)	FCR220-12-4L-FSW-PA2-DRDM-UNV-2/840	9599	78.0	123.1 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F54T5HO 6x F32T8	*

Normal Temp High Efficacy

4'	LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
20	000 Lumens (Nominal)	FCR220-2HE-4L-FSW-PA2-DRDM-UNV-2/840	1741	12.2	142.3 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F32T8	*
40	000 Lumens (Nominal)	FCR220-4HE-4L-FSW-PA2-DRDM-UNV-2/840	3407	24.6	138.6 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F54T5HO 2x F32T8	*
60	000 Lumens (Nominal)	FCR220-6HE-4L-FSW-PA2-DRDM-UNV-2/840	4732	34.6	136.8 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F32T8	*
80	000 Lumens (Nominal)	FCR220-8HE-4L-FSW-PA2-DRDM-UNV-2/840	6377	47.2	135.2 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F32T8	*
12	000 Lumens (Nominal)	FCR220-12HE-4L-FSW-PA2-DRDM-UNV-2/840	9512	72.8	130.6 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F54T5HO 6x F32T8	*

System data as of 1/7/25 (K-Boards). Luminaire efficiency: 2x2 - 72.6%, 2x4 - 78.6% Subject to change without notice.

System data is based on 120V input voltage. Actual performance may differ as a result of end-user environment and application. This fixture has been tested and listed in accordance with UL Standards. L.A. Lighting certifies that it will operate safely when installed properly, and within an ambient temperature range noted in the system data table.





