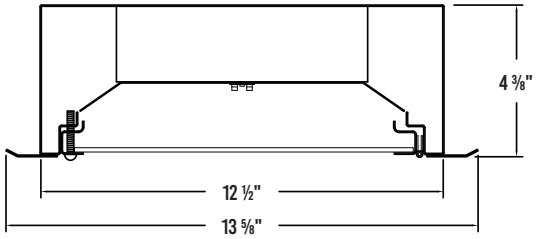
CLEANROOM LED
FCR210
CLASS 100 FLANGED CLEANROOM LUMINAIRE

JOB	
TYPE	
DATE	

Recessed Flanged

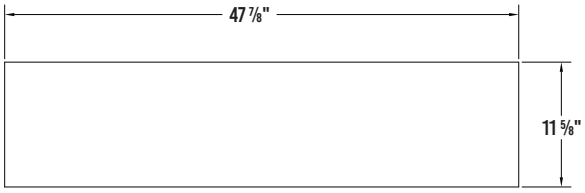
Overall dimensions including flange: 13 5/8" x 50"
Required ceiling opening: 12 1/2 " x 48 1/2"

CROSS SECTION



* No Unused Holes or KOs on Backplates

BACKPLATE



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%

Optical
- 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

APPLICATIONS
- Cleanroom, Sealed Ceiling Areas, Commercial

FLAT PANEL option

FEATURES
- Made in America, BABA & BAA Compliant
- 0-10V dimming driver standard
- Supports California Title 24 compliance

OPTIONS
- Range of lumen packages and color temperatures
- Flat panel optics
- 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

Los Angeles Lighting Mfg. Co.
Contact Us
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10141 Olney Street
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Made in the USA

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ORDERING INFORMATION

Visit www.lalighting.com/resources for additional options.

EXAMPLE: FCR210-4-4L-FSW-PA2-BPL1.5-DRDM-UNV-1/840

SERIES	NOMINAL LED LUMENS	NOMINAL LENGTH	FINISH	DOOR FRAME	OPTICAL	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	LED LAYOUT	CRI / CCT
FCR210		**4L**									
FCR210 • Class 100 Flanged Cleanroom Luminaire	**2** - 2000 lm **4** - 4000 lm **6** - 6000 lm **8** - 8000 lm **12** - 12000 lm **High Efficacy** **2HE** - 2000 lm **4HE** - 4000 lm **6HE** - 6000 lm	**4L** • 4'	**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 lm emergency battery pack *Leave blank if not specified	**DRDM** • 0-10V Dimming Driver **DRDM2C** • 2-Channel 0-10V 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 **120V** • 120 Volt **277V** • 277 Volt	**1** • One Row **P2** • Flat Panel (Must specify FFWA in optical coumn)	**827** • 80+CRI / 2700K **830** • 80+CRI / 3000K **835** • 80+CRI / 3500K **840** • 80+CRI / 4000K **850** • 80+CRI / 5000K **865** • 80+CRI / 6500K **8TW** • 80+CRI Tunable White 2700K-6500K Requires DRDM2C driver **AM8**[1] • PC Yellow 575 nm - 590 nm **AM9**[1] • PC Amber 586 nm - 593 nm **AMT**[1] • True Amber 585 nm - 595 nm

Standard options for FCR210 shown above. For additional options, including lumen packages, controls, lenses, switches, finishes, and more, visit www.lalighting.com/resources or contact customer service.

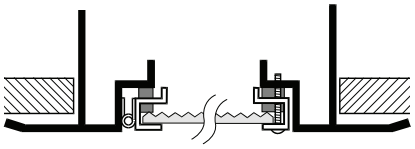
1 For amber and other color LEDs, available lumen packages vary. Contact customer service for more information.

90CRI Also available

Contact customer service for additional CRI/CCT packages.

DOOR FRAME

CROSS SECTION



FEATURES

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

FS W

FINISHES

W White Enamel
B Black Enamel

STYLES

FS Flat Steel

OPTICAL OPTIONS

STANDARD LENSES FOR FCR210 - 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

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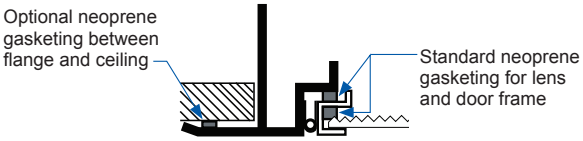
NEOPRENE GASKET

3-WAY
Additional gasket between flange and ceiling.



GSKN 3

NEOPRENE GASKET

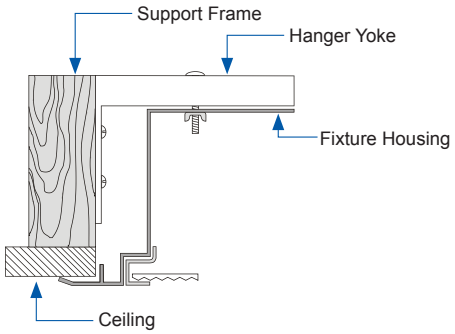
LOCATION
3 Three-Way

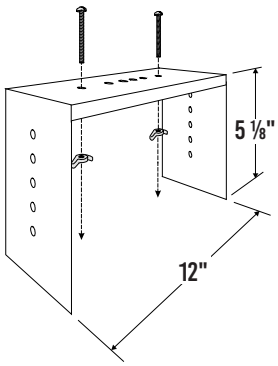
MOUNTING HARDWARE

HANGER YOKES: HS-12

- 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

Normal Temp

4' LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
2000 Lumens (Nominal)	FCR210-2-4L-FSW-PA2-DRDM-UNV-1/840	1478	12.5	118.5 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F32T8	*
4000 Lumens (Nominal)	FCR210-4-4L-FSW-PA2-DRDM-UNV-1/840	2901	25.5	113.6 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F54T5HO 2x F32T8	*
6000 Lumens (Nominal)	FCR210-6-4L-FSW-PA2-DRDM-UNV-1/840	4282	39.1	109.6 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F32T8	*
8000 Lumens (Nominal)	FCR210-8-4L-FSW-PA2-DRDM-UNV-1/840	5622	53.1	106.0 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F32T8	*
12000 Lumens (Nominal)	FCR210-12-4L-FSW-PA2-DRDM-UNV-1/840	8563	78.0	109.8 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
2000 Lumens (Nominal)	FCR210-2HE-4L-FSW-PA2-DRDM-UNV-1/840	1502	12.4	121.6 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F32T8	*
4000 Lumens (Nominal)	FCR210-4HE-4L-FSW-PA2-DRDM-UNV-1/840	2955	24.9	118.5 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F54T5HO 2x F32T8	*
6000 Lumens (Nominal)	FCR210-6HE-4L-FSW-PA2-DRDM-UNV-1/840	4388	37.8	116.2 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F32T8	*

NOTE:
System data as of 1/29/25 (K-Boards).
Luminaire efficiency: 1x4 - 69.3%
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.

Additional lumen packages and color temperatures available.

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