



CLEANROOM FCR221

CLASS 100 FLANGED CLEANROOM LUMINAIRE

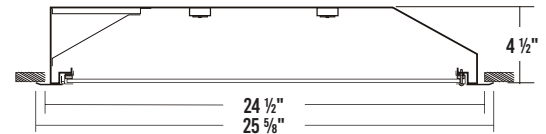
JOB	
TYPE	
DATE	

Recessed Flanged

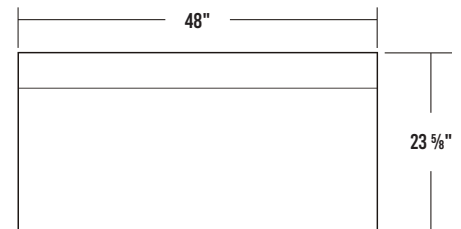


Overall dimensions including flange: 25 5/8" x 49 5/8"
Required ceiling opening: 24 1/2" x 48 1/2"

CROSS SECTION



BACKPLATE



* No Unused Holes or
KOs on 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
- 18 gauge cold-rolled steel trim flange
- Door frame and lens sealed with closed cell neoprene gasket
- All parts fitted and sealed, no unused holes or knockouts

Finish

- Baked white polyester finish
- Painted after fabrication
- 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

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



Los Angeles Lighting Mfg. Co.
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www.lalighting.com Made in the USA



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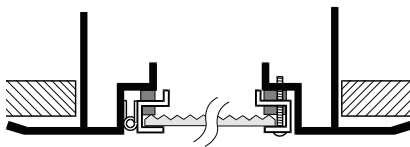


ORDERING INFORMATION: Additional Options Available. Visit www.lalighting.com/resources for more information

SERIES	NOMINAL LED LUMENS	NOMINAL LENGTH	FINISH	DOOR FRAME	OPTICAL	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROWS	CRI / CCT
FCR221		4L								2	
FCR221 • 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 8HE - 8000 lm 12HE - 12000 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	UNV • 120V-277V	2 • Two LED Rows	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 AM8¹ • PC Yellow 575 nm - 590 nm AM9¹ • PC Amber 586 nm - 593 nm AMT¹ • True Amber 585 nm - 595 nm
Standard options for FCR221 shown above. For additional options, including lumen packages, controls, lenses, switches, finishes, and more, visit www.lalighting.com/resources or contact customer service.											90CRI Also available Contact customer service for additional CRI/CCT packages.
¹ For amber and other color LEDs, available lumen packages vary. Contact customer service for more information.											

DOOR FRAME

CROSS SECTION



FEATURES

- Full Length Stainless Steel Piano Hinge
- Inverted Lens
- Two 10-24 Stainless Steel 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 FCR221 - 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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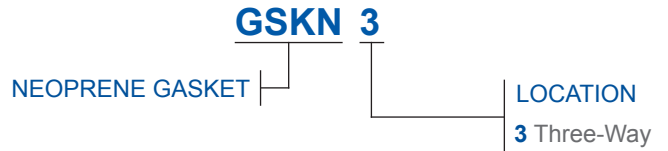
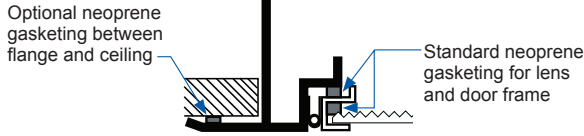
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NEOPRENE GASKET

3-WAY

Additional gasket between flange and ceiling.

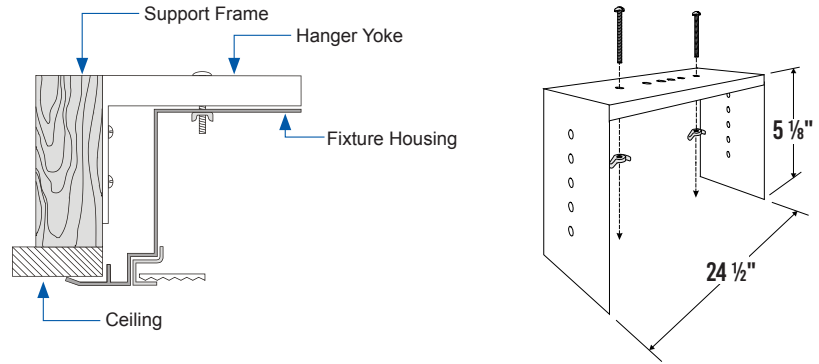


MOUNTING HARDWARE

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

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)	FCR221-2-4L-FSW-PA2-DRDM-UNV-2/840	1727	12.4	139.8 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F32T8	*
		4000 Lumens (Nominal)	FCR221-4-4L-FSW-PA2-DRDM-UNV-2/840	3399	24.9	136.3 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F32T8	*
		6000 Lumens (Nominal)	FCR221-6-4L-FSW-PA2-DRDM-UNV-2/840	5046	37.8	133.6 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F32T8	*
		8000 Lumens (Nominal)	FCR221-8-4L-FSW-PA2-DRDM-UNV-2/840	6674	50.9	131.0 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F32T8	*
		12000 Lumens (Nominal)	FCR221-12-4L-FSW-PA2-DRDM-UNV-2/840	9849	78.0	126.3 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)	FCR221-2HE-4L-FSW-PA2-DRDM-UNV-2/840	1765	12.2	144.2 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F32T8	*
		4000 Lumens (Nominal)	FCR221-4HE-4L-FSW-PA2-DRDM-UNV-2/840	3454	24.6	140.5 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F32T8	*
		6000 Lumens (Nominal)	FCR221-6HE-4L-FSW-PA2-DRDM-UNV-2/840	4797	34.6	138.7 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F32T8	*
		8000 Lumens (Nominal)	FCR221-8HE-4L-FSW-PA2-DRDM-UNV-2/840	6464	47.2	137.0 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F32T8	*
		12000 Lumens (Nominal)	FCR221-12HE-4L-FSW-PA2-DRDM-UNV-2/840	9765	72.8	134.1 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F54T5HO 6x F32T8	*

NOTE:
System data as of 1/6/25 (K-Boards).
Luminaire efficiency: 2x4 - 79.7%
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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