CLEANROOM LED
FCR721
CLASS 1000/10000 FLANGED CLEANROOM LUMINAIRE

JOB	
TYPE	
DATE	

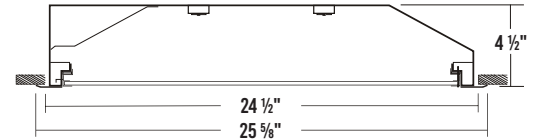LA LIGHTING

Recessed Flanged

2' x 4'

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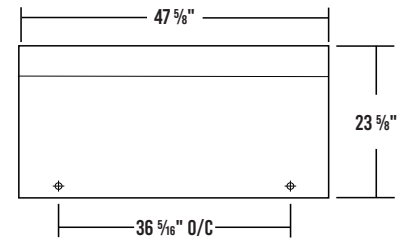*Required ceiling opening: 24 1/2 " x 48 1/2"*

2' x 2'

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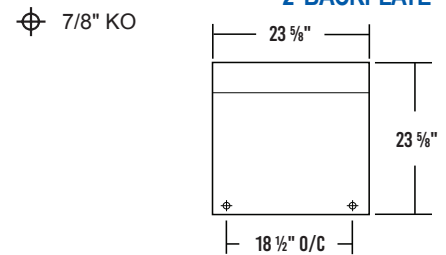*Required ceiling opening: 24 1/2 " x 24 1/2"*

CROSS SECTION

4 1/2"
24 1/2"
25 5/8"

4' BACKPLATE

47 5/8"
23 5/8"
36 5/16" O/C

⊕ 7/8" KO

2' BACKPLATE

23 5/8"
23 5/8"
18 1/2" O/C

SPECIFICATIONS

Construction
• Class 1000/10,000 (ISO Class 6/7 Equivalent)
• 22 gauge cold-rolled steel welded housing
• 20 gauge cold-rolled steel door frame secured by T-hinges and positive spring loaded latches
• 18 gauge cold-rolled steel trim flange
• Door frame sealed with closed cell neoprene gasket
• All parts fitted and sealed

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

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
• Emergency battery pack
• Hanger yokes
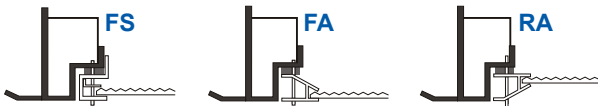• Customization available upon request

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

EXAMPLE: FCR721-4-4L-FSW-PA2-BPL1.5-DRDM-UNV-2/840

SERIES	NOMINAL LED LUMENS	NOMINAL LENGTH	FINISH	DOOR FRAME	OPTICAL	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROWS	CRI / CCT
FCR721										**2**	
FCR721 • Class 1000/10000 Flanged Cleanroom LED 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 **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	**2L** • 2' **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	**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	**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 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 FCR721 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

FS   FA   RA

FS   W

FINISHES
W White Enamel
B Black Enamel
N Natural Anodized Aluminum (only available for FA and RA styles)

STYLES
FS Flat Steel
FA Flat Extruded Aluminum
RA 5/8" Regressed Extruded Aluminum

FEATURES
• T-Hinges and Positive Spring Loaded Latches
• Inverted Lens
• Sealed with Closed Cell Neoprene Gasket
• Light Stop Covers Installed
• Internal Frame Rail (FS only)

OPTICAL OPTIONS

STANDARD LENSES FOR FCR721 - 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.

Optional neoprene gasketing between flange and ceiling

Standard neoprene gasketing for lens and door frame

GSKN 3

NEOPRENE GASKET

LOCATION
3 Three-Way
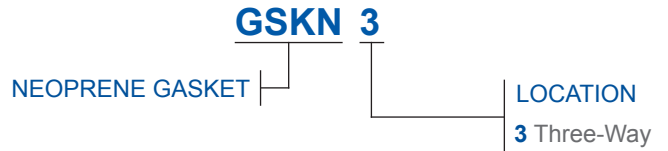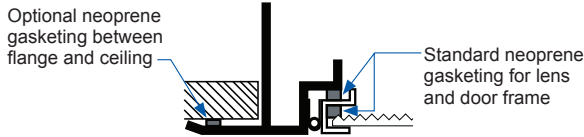
MOUNTING HARDWARE

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 2' or 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.
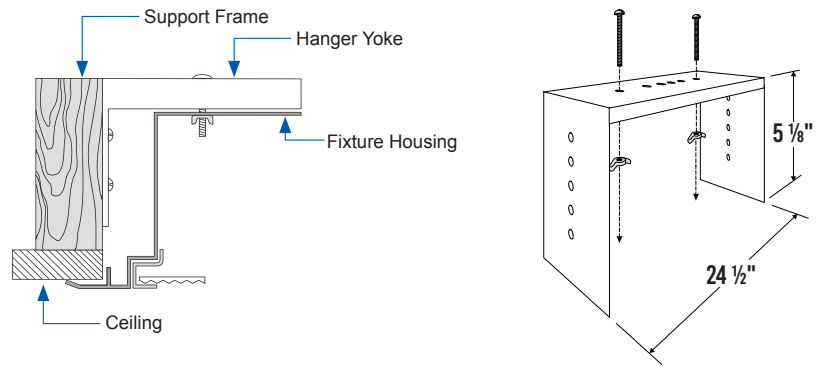
Support Frame
Hanger Yoke
Fixture Housing
Ceiling

5 ⅛"
24 ½"

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

Normal Temp	2' LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
	2000 Lumens (Nominal)	FCR721-2-2L-FSW-PA2-DRDM-UNV-2/840	1632	12.5	130.9 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F24T5HO 2x F17T8	*
	4000 Lumens (Nominal)	FCR721-4-2L-FSW-PA2-DRDM-UNV-2/840	3204	25.5	125.5 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F24T5HO 4x F17T8	*
	6000 Lumens (Nominal)	FCR721-6-2L-FSW-PA2-DRDM-UNV-2/840	4730	39.1	121.1 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F24T5HO 6x F17T8	*
	8000 Lumens (Nominal)	FCR721-8-2L-FSW-PA2-DRDM-UNV-2/840	6211	53.1	117.1 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F24T5HO	*
	12000 Lumens (Nominal)	FCR721-12-2L-FSW-PA2-DRDM-UNV-2/840	9459	78.0	121.3 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)	FCR721-2HE-2L-FSW-PA2-DRDM-UNV-2/840	1659	12.4	134.3 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F24T5HO 2x F17T8	*
	4000 Lumens (Nominal)	FCR721-4HE-2L-FSW-PA2-DRDM-UNV-2/840	3265	24.9	130.9 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F24T5HO 4x F17T8	*
	6000 Lumens (Nominal)	FCR721-6HE-2L-FSW-PA2-DRDM-UNV-2/840	4847	37.8	128.4 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F24T5HO 6x F17T8	*
	8000 Lumens (Nominal)	FCR721-8HE-2L-FSW-PA2-DRDM-UNV-2/840	6407	50.9	125.8 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F24T5HO	*

RoHS COMPLIANT
UL CERTIFIED

MADE IN THE USA
BAA Compliant

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)	FCR721-2-4L-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)	FCR721-4-4L-FSW-PA2-DRDM-UNV-2/840	3399	24.9	136.3 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F54T5HO 2x F32T8	*
6000 Lumens (Nominal)	FCR721-6-4L-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)	FCR721-8-4L-FSW-PA2-DRDM-UNV-2/840	6671	50.9	131.0 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F32T8	*
12000 Lumens (Nominal)	FCR721-12-4L-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)	FCR721-2HE-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)	FCR721-4HE-4L-FSW-PA2-DRDM-UNV-2/840	3454	24.6	140.5 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F54T5HO 2x F32T8	*
6000 Lumens (Nominal)	FCR721-6HE-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)	FCR721-8HE-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)	FCR721-12HE-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 1/29/25 (K-Boards).
Luminaire efficiency: 2x2 - 76.6%, 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.