JOB

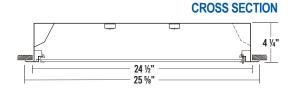
TYPE

ASS 1000/10000 FLANGED CLEANROOM LUMINAIRE DATE

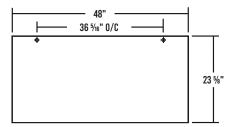
### **Recessed Flanged**

LIGHTING

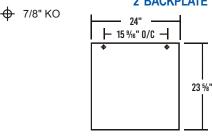




**4' BACKPLATE** 



**2' 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
- Emergency battery pack
- Hanger yokes
- Customization available upon request

Required ceiling opening: 24 1/2 " x 48 1/2"

Overall dimensions including flange: 25 5/8" x 50"

2' x 2'

Required ceiling opening: 24 1/2 " x 24 1/2"

## 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)  $\geq 0.9$
- 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



#### Los Angeles Lighting Mfg. Co. Contact Us T: 626-454-8300 F: 626-454-8399 www.lalighting.com 10141 Olney Street El Monte, CA 91731 Made in the USA



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Revised: 03/28/25





Overall dimensions including flange: 25 5/8" x 26"

## FCR720 LED Class 1000/10000 Flanged Cleanroom Luminaire

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

SERIES	NOMINAL LED LUMENS	NOMINAL LENGTH	FINISH	DOOR FRAME	OPTICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROWS	CRI / CCT
FCR720									2	
FCR720 • 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 8 - 8000 lm 12 - 12000 lm High Efficacy 2HE - 2000 lm High Efficacy 2HE - 2000 lm 8 - 8000 lm 12 - 12000 lm 12 - 12000 lm 12 - 12000 lm 12 - 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	BPL1.5 • 1500 Im 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 / 4000K 855 80+CRI / 5000K 865 80+CRI / 6500K 80+CRI / 6500K 81W 80+CRI / 6500K 81W 80+CRI / 6500K 840 90 - 200K - 6500K 800 800 - 200K - 6500K 800 - 200K - 650K - 550K - 5
finishes, an	otions for FCR72 d more, visit ww	w.lalighting	g.com/resourc	es or con	tact customer	service.	ages, controls, le	enses, switch	les,	90CRI Also available Contact customer servi for additional CRI/CC packages.

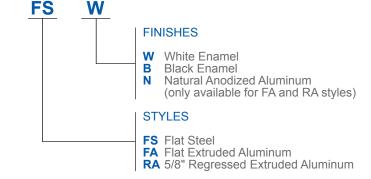
## DOOR FRAME

#### **CROSS SECTION**



#### 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 FCR720 - 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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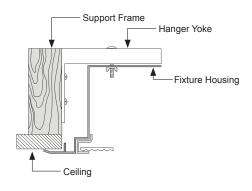


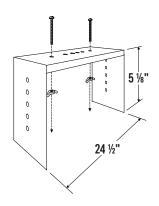
## **MOUNTING HARDWARE**

### 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

mp	2'	LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
Norr Te	20	00 Lumens (Nominal)	FCR720-2-2L-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)	FCR720-4-2L-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)	FCR720-6-2L-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)	FCR720-8-2L-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)	FCR720-12-2L-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)	FCR720-2HE-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)	FCR720-4HE-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)	FCR720-6HE-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)	FCR720-8HE-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	*



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## 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
2	2000 Lumens (Nominal)	FCR720-2-4L-FSW-PA2-DRDM-UNV-2/840	1682	12.4	136.2 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F32T8	*
	4000 Lumens (Nominal)	FCR720-4-4L-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	*
	6000 Lumens (Nominal)	FCR720-6-4L-FSW-PA2-DRDM-UNV-2/840	4978	37.8	131.8 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F32T8	*
	8000 Lumens (Nominal)	FCR720-8-4L-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	*
_	12000 Lumens (Nominal)	FCR720-12-4L-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	*
	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)	FCR720-2HE-4L-FSW-PA2-DRDM-UNV-2/840	1741	12.2	142.3 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F32T8	*
		FCR720-2HE-4L-FSW-PA2-DRDM-UNV-2/840 FCR720-4HE-4L-FSW-PA2-DRDM-UNV-2/840	1741 3407	12.2 24.6	142.3 lm/W 138.6 lm/W		1x F32T8 1x F54T5HO 2x F32T8	*
	(Nominal) 4000 Lumens					(-4°F / 95°F) -20°C / 35°C	1x F54T5HO	*
- -	(Nominal) 4000 Lumens (Nominal) 6000 Lumens	FCR720-4HE-4L-FSW-PA2-DRDM-UNV-2/840	3407	24.6	138.6 lm/W	(-4°F / 95°F) -20°C / 35°C (-4°F / 95°F) -20°C / 35°C	1x F54T5HO 2x F32T8	*
<b>&gt;</b>	(Nominal) 4000 Lumens (Nominal) 6000 Lumens (Nominal) 8000 Lumens	FCR720-4HE-4L-FSW-PA2-DRDM-UNV-2/840 FCR720-6HE-4L-FSW-PA2-DRDM-UNV-2/840	3407 4732	24.6 34.6	138.6 lm/W 136.8 lm/W	(-4°F / 95°F) -20°C / 35°C (-4°F / 95°F) -20°C / 35°C (-4°F / 95°F) -20°C / 35°C	1x F54T5HO 2x F32T8 3x F32T8 2x F54T5HO	•

#### NOTE:

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.

Additional lumen packages and color temperatures available.





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