

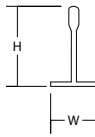


# CLEANROOM GCR221

LED  
CLASS 100 CLEANROOM GRID LUMINAIRE

JOB	
TYPE	
DATE	

## Grid-Mounted



COMPATIBLE T-BAR GRIDS	
WIDTH	HEIGHT
15/16"	1 1/2"
1 1/2"	1 1/2"
1 1/2"	2"

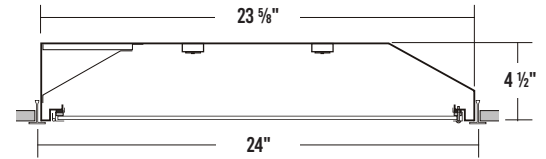


2' x 4'

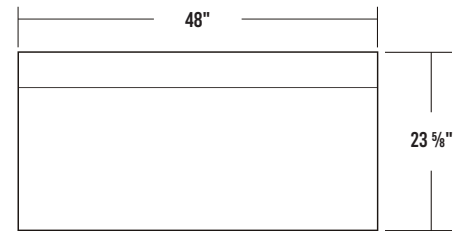


2' x 2'

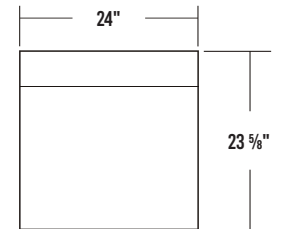
## CROSS SECTION



## 4' BACKPLATE



## 2' BACKPLATE



\* No Unused Holes or KOs on Backplates

## 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
- 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
- Tapered housing for use with 2" high T-Bar grids

## 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
- Customization available upon request



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



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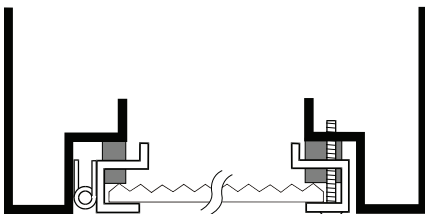


ORDERING INFORMATION: Additional Options Available. Visit [www.lalighting.com/resources](http://www.lalighting.com/resources) for more information

EXAMPLE: GCR221-4-4L-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
<b>GCR221</b>										<b>2</b>	
<b>GCR221</b> • Class 100 Cleanroom Grid LED Luminaire	2 - 2000 lm 4 - 4000 lm 6 - 6000 lm 8 - 8000 lm 12 - 12000 lm  <b>High Efficacy</b> 2HE - 2000 lm 4HE - 4000 lm 6HE - 6000 lm 8HE - 8000 lm	<b>2L</b> • 2'	<b>AMF</b> • Antimicrobial Finish  *Leave blank if not specified	<b>FSW</b> • Flat Steel White Enamel Door Frame	<b>PA2</b> • Clear Prismatic Acrylic 0.125"  <b>FPA2</b> • Frosted Prismatic Acrylic 0.125"  <b>DRP8</b> • High-Impact Clear Prismatic Acrylic 0.187"  <b>FFWA</b> • Flat Frosted White Acrylic	<b>WL</b> • Wet Location  <b>TP</b> • Tamper Proof Screws (Hex Socket with Post)  *Leave blank if not specified	<b>BPL1.5</b> • 1500 lm emergency battery pack  *Leave blank if not specified	<b>DRDM</b> • 0-10V Dimming Driver	<b>UNV</b> • 120V-277V	<b>2</b> • Two LED Rows	<b>827</b> • 80+CRI / 2700K  <b>830</b> • 80+CRI / 3000K  <b>835</b> • 80+CRI / 3500K  <b>840</b> • 80+CRI / 4000K  <b>850</b> • 80+CRI / 5000K  <b>865</b> • 80+CRI / 6500K  <b>8TW</b> • 80+CRI Tunable White 2700K-6500K  <b>AM8</b> <sup>1</sup> • PC Yellow 575 nm - 590 nm  <b>AM9</b> <sup>1</sup> • PC Amber 586 nm - 593 nm  <b>AMT</b> <sup>1</sup> • True Amber 585 nm - 595 nm
Standard options for GCR221 shown above. For additional options, including lumen packages, controls, lenses, switches, finishes, and more, visit <a href="http://www.lalighting.com/resources">www.lalighting.com/resources</a> or contact customer service.											<b>90CRI Also available</b>  Contact customer service for additional CRI/CCT packages.
<sup>1</sup> For amber and other color LEDs, available lumen packages vary. Contact customer service for more information.											

## 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 GCR221 - 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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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)	GCR221-2-2L-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)	GCR221-4-2L-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)	GCR221-6-2L-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)	GCR221-8-2L-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)	GCR221-12-2L-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)	GCR221-2HE-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)	GCR221-4HE-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)	GCR221-6HE-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)	GCR221-8HE-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	*

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)	GCR221-2-4L-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)	GCR221-4-4L-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)	GCR221-6-4L-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)	GCR221-8-4L-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)	GCR221-12-4L-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)	GCR221-2HE-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)	GCR221-4HE-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)	GCR221-6HE-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)	GCR221-8HE-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)	GCR221-12HE-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.



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