



CLEANROOM LED

GCR620 SERIES

® CLASS 1000/10000 CLEAN ROOM GRID LUMINAIRE

JOB	
TYPE	
DATE	

WWW.LALIGHTING.COM TEL: 626-454-8300

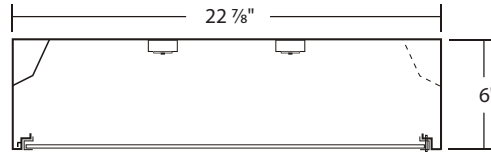


2x4 ft

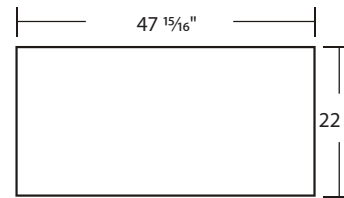
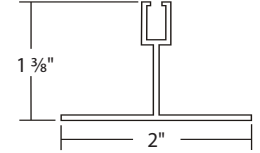


2x2 ft

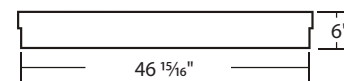
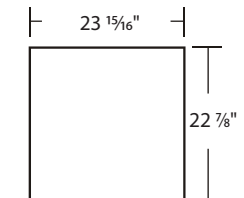
Cross Section



Suitable for 2" Wide T-Bar Grids

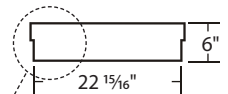


Backplate

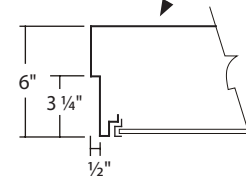


2x4 ft

Side View



2x2 ft



SPECIFICATIONS

CONSTRUCTION

- Class 1000/10000 / ISO Class 6 equivalent / ISO Class 7 equivalent
- 22 gauge cold-rolled steel welded housing
- All parts fitted and sealed, no open holes or knockouts
- 20 gauge cold-rolled steel door frame secured by T-hinges and positive spring loaded latches
- Door frame sealed with neoprene gasket

FINISH

- Baked white powder coated finish / welded and painted after fabrication / minimum reflectance 90%

OPTICAL

- Inverted clear prismatic acrylic lens (nominal 0.125) standard

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

- Clean Room, Sealed Ceiling Areas, Commercial

FEATURES

- 0-10V Dimming driver standard
- Supports California Title 24 compliance

OPTIONS CONTACT CUSTOMER SERVICE FOR ADDITIONAL OPTIONS

- Full customization available upon request
- Additional lumen packages and color temperatures
- Controls and sensors
- Variety of lenses
- Emergency battery pack
- Antimicrobial finish
- Tamper proof screws



Los Angeles Lighting Mfg. Co.

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Revised: 02/24/23



ORDERING INFORMATION

ADDITIONAL OPTIONS AVAILABLE. VISIT WWW.LALIGHTING.COM/RESOURCES FOR MORE INFORMATION

SERIES	NOMINAL LED LUMENS	NOMINAL LENGTH	FINISH	DOOR FRAME	OPTICAL	CONTROLS	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROWS	CRI / CCT
GCR620								DRDM	UNV		
GCR620 • Recessed Cleanroom Luminaire for 2" Wide T-Bar Ceilings (Class 1000/10000)	2 - 2000lm 3 - 3000lm 4 - 4000lm 6 - 6000lm 8 - 8000lm 12 - 12000lm High Efficacy 2HE - 2000lm 3HE - 3000lm 4HE - 4000lm 6HE - 6000lm 12HE - 12000lm ¹	2L • 2'x2'	AMF • Antimicrobial Finish <i>*Leave blank if not specified</i>	FSW • Flat Steel • White Enamel <i>*Leave blank if not specified</i>	PA2 • Clear Prismatic Acrylic 0.125" Nominal FPA2 • Frosted Prismatic Acrylic 0.125" Nominal	MSH • Motion Sensor High Frequency (Microwave) WLC(xx) • Wireless Control <i>*Leave blank if not specified</i>	BPL1.5 • 1500lm Emergency Battery Pack <i>*Leave blank if not specified</i>	DRDM • 0-10V Dimming Driver	UNV • 120V -277V 120V • 120 Volt 277V • 277 Volt 347V • 347 Volt 480V • 480 Volt	2 • 2 LED Rows	830 • 80+CRI / 3000K 835 • 80+CRI / 3500K 840 • 80+CRI / 4000K 850 • 80+CRI / 5000K 8TW • Tunable White 827 to 865 <i>*Contact customer service for additional CRI / CCT packages, including 90CRI</i>
	2 - 2000lm 4 - 4000lm 6 - 6000lm 8 - 8000lm 10 - 10000lm 12 - 12000lm High Efficacy 2HE - 2000lm 4HE - 4000lm 6HE - 6000lm 8HE - 8000lm 12HE - 12000lm	4L • 2'x4'	Standard options for GCR620 shown above. For additional options, including lumen packages, controls, lenses, switches, finishes, and more, visit www.lalighting.com/resources or contact customer service.								
¹ 2'x2' 12000 lumen high efficacy model uses 4 rows of LEDs. Enter "4" in # of LED Rows column, ie. GCR620-12HE-2L-FSW-PA2-DRDM-UNV-4/840. Additional lumen packages and color temperatures available.											

SYSTEM DATA

ADDITIONAL LUMEN PACKAGES AVAILABLE. CONTACT CUSTOMER SERVICE FOR MORE INFORMATION

2'x2' LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
2000 Lumens (Nominal)	GCR620-2-2L-FSW-PA2-DRDM-UNV-2/840	1421	13.4	105.9 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F17T8 1-F24T5HO	*
3000 Lumens (Nominal)	GCR620-3-2L-FSW-PA2-DRDM-UNV-2/840	22501	22.1	101.8 lm/W	-20°C / 35°C (-4°F / 95°F)	3-F17T8	*
4000 Lumens (Nominal)	GCR620-4-2L-FSW-PA2-DRDM-UNV-2/840	2790	26.7	104.5 lm/W	-20°C / 35°C (-4°F / 95°F)	4-F17T8 2-F24T5HO	LA-T3221-2
6000 Lumens (Nominal)	GCR620-6-2L-FSW-PA2-DRDM-UNV-2/840	4344	43.7	99.5 lm/W	-20°C / 35°C (-4°F / 95°F)	6-F17T8 3-F24T5HO	*
8000 Lumens (Nominal)	GCR620-8-2L-FSW-PA2-DRDM-UNV-2/840	5654	51.1	110.6 lm/W	-20°C / 35°C (-4°F / 95°F)	4-F24T5HO 2-F54T5HO	*
12000 Lumens (Nominal)	GCR620-12-2L-FSW-PA2-DRDM-UNV-2/840	8214	74.9	109.7 lm/W	-20°C / 35°C (-4°F / 95°F)	6-F24T5HO 3-F54T5HO	*

2'x2' 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)	GCR620-2HE-2L-FSW-PA2-DRDM-UNV-2/840	1536	13.5	113.4 lm/W	-20°C / 35°C (-4°F / 95°F)	1-F32T8	*
3000 Lumens (Nominal)	GCR620-3HE-2L-FSW-PA2-DRDM-UNV-2/840	2142	18.3	117.0 lm/W	-20°C / 35°C (-4°F / 95°F)	1-F32T8	*
4000 Lumens (Nominal)	GCR620-4HE-2L-FSW-PA2-DRDM-UNV-2/840	2731	23.5	116.4 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F32T8 1-F54T5HO	*
6000 Lumens (Nominal)	GCR620-6HE-2L-FSW-PA2-DRDM-UNV-2/840	4126	36.4	113.4 lm/W	-20°C / 35°C (-4°F / 95°F)	3-F32T8	*
12000 Lumens (Nominal)	GCR620-12HE-2L-FSW-PA2-DRDM-UNV-4/840	8250	71.1	116.0 lm/W	-20°C / 35°C (-4°F / 95°F)	6-F24T5HO 3-F54T5HO	*

NOTE: 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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SYSTEM DATA

ADDITIONAL LUMEN PACKAGES AVAILABLE. CONTACT CUSTOMER SERVICE FOR MORE INFORMATION

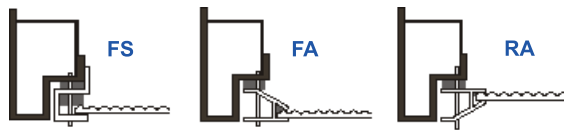
2'x4' LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
2000 Lumens (Nominal)	GCR620-2-4L-FSW-PA2-DRDM-UNV-2/840	1554	13.2	118.0 lm/W	-20°C / 35°C (-4°F / 95°F)	1-F32T8	*
4000 Lumens (Nominal)	GCR620-4-4L-FSW-PA2-DRDM-UNV-2/840	3106	25.8	120.5 lm/W	-20°C / 35°C (-4°F / 95°F)	1-F54T5HO 2-F32T8	LA-T3221-2
6000 Lumens (Nominal)	GCR620-6-4L-FSW-PA2-DRDM-UNV-2/840	4620	39.0	118.6 lm/W	-20°C / 35°C (-4°F / 95°F)	3-F32T8	*
8000 Lumens (Nominal)	GCR620-8-4L-FSW-PA2-DRDM-UNV-2/840	6099	52.7	115.8 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F54T5HO 4-F32T8	*
10000 Lumens (Nominal)	GCR620-10-4L-FSW-PA2-DRDM-UNV-2/840	7540	65.3	115.4 lm/W	-20°C / 35°C (-4°F / 95°F)	5-F32T8	*
12000 Lumens (Nominal)	GCR620-12-4L-FSW-PA2-DRDM-UNV-2/840	9222	81.9	112.6 lm/W	-20°C / 35°C (-4°F / 95°F)	3-F54T5HO 6-F32T8	*

2'x4' 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)	GCR620-2HE-4L-FSW-PA2-DRDM-UNV-2/840	1648	12.8	128.7 lm/W	-20°C / 35°C (-4°F / 95°F)	1-F32T8	*
4000 Lumens (Nominal)	GCR620-4HE-4L-FSW-PA2-DRDM-UNV-2/840	3021	22.7	132.9 lm/W	-20°C / 35°C (-4°F / 95°F)	1-F54T5HO 2-F32T8	*
6000 Lumens (Nominal)	GCR620-6HE-4L-FSW-PA2-DRDM-UNV-2/840	4683	35.4	132.2 lm/W	-20°C / 35°C (-4°F / 95°F)	3-F32T8	*
12000 Lumens (Nominal)	GCR620-12HE-4L-FSW-PA2-DRDM-UNV-4/840	9018	71.1	126.8 lm/W	-20°C / 35°C (-4°F / 95°F)	3-F54T5HO 6-F32T8	*

NOTE:
 System data is based on 120V input voltage. Actual performance may differ as a result of end-user environment and application.
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 Additional lumen packages and color temperatures available.

DOOR FRAME

CROSS SECTION



FEATURES

- Inverted Lens
- T-Hinges and Positive Spring Loaded Latches
- Sealed with Neoprene Gasket
- Light Stop Covers Installed
- Internal Frame Rail

FS W

FINISHES

- W White Enamel
- B Black Enamel
- N Natural Anodized Aluminum (Only FA / RA styles)

STYLES

- FS Flat Steel (with internal frame rail)
- FA Flat Extruded Aluminum
- RA 5/8" Regressed Extruded Aluminum



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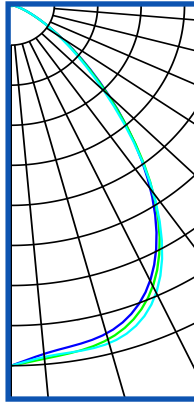
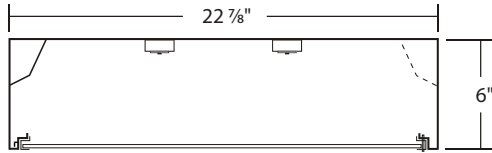
Revised: 02/24/23



MADE IN THE USA
 BAA Compliant

PHOTOMETRIC DATA

GCR620-4-2L-FSW-PA2-1DRDM-UNV-2/840
 TEST NO.=LA-T3222
 LED TYPE=48 LED MODULE
 NO. OF MODULE=2
 SYSTEM WATT (W)=33.1
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE=C



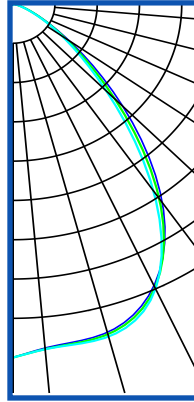
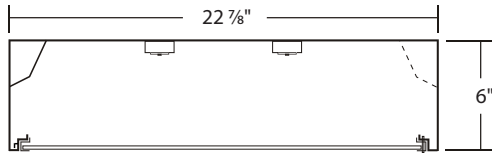
CANDLEPOWER			
ANGLE	END	45	CROSS
0	1839	1839	1839
5	1772	1755	1788
15	1704	1735	1748
25	1515	1557	1597
35	1133	1148	1138
45	642	630	611
55	277	275	272
65	98	98	97
75	26	26	27
85	3	3	2
90	0	0	0
95	0	0	0
115	0	0	0
125	0	0	0
135	0	0	0
145	0	0	0
155	0	0	0
165	0	0	0
175	0	0	0
180	0	0	0

ZONAL LUMEN SUMMARY			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1380	32.2	46.6
0-40	2098	48.9	70.8
0-60	2832	66.1	95.6
0-90	2960	69.1	100.0
90-120	.02	0.0	0.0
90-150	.02	0.0	0.0
90-180	.02	0.0	0.0
0-180	2961	69.1	100.0

Luminaire Output= 2961 lumens
 Luminaire Efficacy = 89.4 lm/W

SPACING CRITERION	
ALONG	ACROSS
1.10	1.12

GCR620-6-4L-FSW-PA2-1DRDM-UNV-2/840
 TEST NO.=LA-T3224
 LED TYPE=48 LED MODULE
 NO. OF MODULE=4
 SYSTEM WATT (W)=47.5
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE=C



CANDLEPOWER			
ANGLE	END	45	CROSS
0	2876	2876	2876
5	2809	2817	2818
15	2765	2781	2801
25	2528	2545	2556
35	1973	1932	1856
45	1178	1093	1003
55	521	483	458
65	181	173	163
75	48	47	46
85	5	5	5
90	0	0	0
95	0	0	0
115	0	0	0
125	0	0	0
135	0	0	0
145	0	0	0
155	0	0	0
165	0	0	0
175	0	0	0
180	0	0	0

ZONAL LUMEN SUMMARY			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	2235	33.9	45.1
0-40	3443	52.3	69.5
0-60	4726	71.8	95.4
0-90	4952	75.3	100.0
90-120	.04	0.0	0.0
90-150	.04	0.0	0.0
90-180	.04	0.0	0.0
0-180	4952	75.3	100.0

Luminaire Output= 4952 lumens
 Luminaire Efficacy = 104.2 lm/W

SPACING CRITERION	
ALONG	ACROSS
1.17	1.14



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