

CLEAN ROOM LED

GCR600

SERIES 1X4, 2X2, 2X4

CLASS 1000/10000 CLEAN ROOM GRID LUMINAIRE



CLASS 1000/10000 GRID LED LUMINAIRE FOR 2" WIDE INVERTED T-BAR CEILINGS



APPLICATIONS

- Clean Room, Sealed Ceiling Areas, Commercial

FEATURES

- 0-10V dimming driver standard
- 2" wide inverted T-Bar mounting
- Supports California Title 24 Compliance

OPTIONS

- Customization available upon request
- (Wireless) Controls and Sensors
- Variety of Lenses
- Emergency Battery Pack
- Antimicrobial Finished Housing and Door Frames
- Tamper Proof Screws

SPECIFICATIONS

CONSTRUCTION

- Class 1000/10000 / ISO Class 6 Equivalent / ISO Class 7 Equivalent
- 22 ga. cold rolled steel welded housing
- All parts fitted and sealed, no unused holes or knockouts
- 20 ga. 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) $\leq 20\%$

LISTING

- UL USA and Canada listed / suitable for damp locations

WARRANTY

- 5-year limited warranty, 10-year limited warranty available

ORDERING INFORMATION

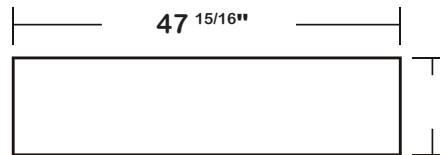
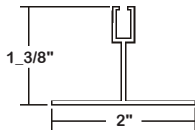
EXAMPLE: GCR620-8-4L-FSW-PA2-DRDM-UNV-2/850

SERIES	LED NOMINAL LUMEN PACKAGE	EFFICACY	NOMINAL LENGTH	FINISH	DOOR FRAME	OPTICAL	MECHANICAL	DRIVER	VOLTAGE	# OF WHITE LED ROWS	CRI / CCT
					FSW			DRDM	UNV		
GCR610 • 1' X 4'	1' x 4' lengths 2 - 2000lm 4 - 4000lm 6 - 6000lm 8 - 8000lm 12 - 12000lm	(Blank) • Standard	2L • 2' x 2'	AMF • Antimicrobial Finish Housing and Door Frame	FSW • Flat Steel White Enamel Door Frame	PA2 • Clear Prismatic Acrylic 0.125 Nominal	(Blank) • Standard	DRDM • 0-10V Dimming Driver	UNV • 120V-277V	1 • 1 LED Rows • 2000lm 1x4 • 2000lm 1x4 HT • 4000lm 1x4 • 4000lm 1x4 HT • 6000lm 1x4 • 6000lm 1x4 HT • 8000lm 1x4	830 • 80+CRI / 3000K Color Temp.
GCR620 • 2' X 2' • 2' X 4'	2' x 2' lengths 2 - 2000lm 3 - 3000lm 4 - 4000lm 6 - 6000lm 8 - 8000lm 12 - 12000lm 2' x 4' lengths 2 - 2000lm 4 - 4000lm 6 - 6000lm 8 - 8000lm 12 - 12000lm	HE • High Efficacy	4L • 1' x 4' • 2' x 4'			DRP8 • High Impact Clear Prismatic Acrylic 0.125 Nominal	TP • Tamper Proof Screws (Hex Socket with Post)			2 • 2 LED Rows • 2000lm 2x2 • 2000lm 2x2 HT • 2000lm 2x4 • 2000lm 2x4 HT • 3000lm 2x2 • 3000lm 2x2 HT • 3000lm 2x4 • 3000lm 2x4 HT • 4000lm 2x2 • 4000lm 2x2 HT • 4000lm 2x4 • 4000lm 2x4 HT • 6000lm 2x2 • 6000lm 2x2 HT • 6000lm 2x4 • 6000lm 2x4 HT • 8000lm 2x2 • 8000lm 2x2 HT • 8000lm 2x4 • 8000lm 2x4 HT • 12000lm 2x2 • 12000lm 2x4 • 12000lm 2x4 HT	835 • 80+CRI / 3500K Color Temp. 840 • 80+CRI / 4000K Color Temp. 850 • 80+CRI / 5000K Color Temp. 8TW • 80+CRI / Tunable White • Consult Factory for Available Lumen Options for TW

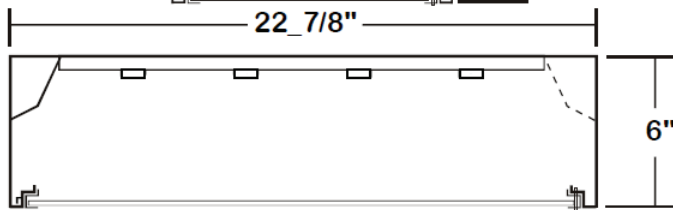
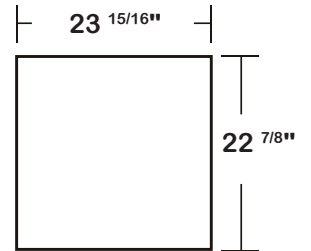
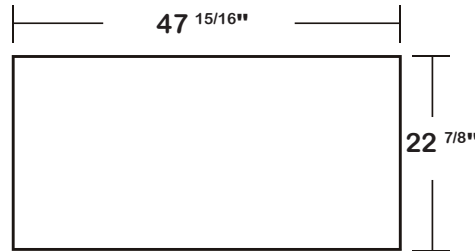
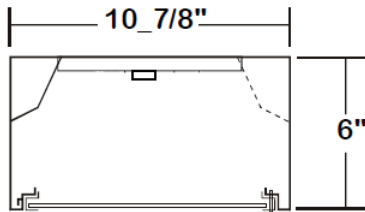
OPTICAL OPTIONS **MECHANICAL OPTIONS** **DRIVERS OPTIONS** **SENSOR OPTIONS** **ELECTRICAL OPTIONS**
INTERACTIVE BUTTONS

DIMENSIONS

T-BAR SIZING



*No Unused Holes And KO's On Backplate.



SYSTEM DATA

THESE ARE THE MOST POPULAR LUMEN PACKAGES. PLEASE CONSULT FACTORY FOR ADDITIONAL SYSTEM DATA.

1X4 - LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
2000 Lumens (Nominal)	GCR610-2-4L-FSW-PA2-DRDM-UNV-1/840	1080	13.4	80.5 lm/W	-20°C / 35°C -4°F / 95°F	1-F32T8	*
4000 Lumens (Nominal)	GCR610-4-4L-FSW-PA2-DRDM-UNV-1/840	2121	27.0	78.5 lm/W	-20°C / 35°C -4°F / 95°F	2-F32T8 2-PL-L/40	LA-T3587
6000 Lumens (Nominal)	GCR610-6-4L-FSW-PA2-DRDM-UNV-1/840	3303	43.6	75.8 lm/W	-20°C / 35°C -4°F / 95°F	3-F32T8 3-PL-L/40	*
8000 Lumens (Nominal)	GCR610-8-4L-FSW-PA2-DRDM-UNV-1/840	4300	51.1	84.1 lm/W	-20°C / 35°C -4°F / 95°F	4-F32T8 2-F54T5HO	*
12000 Lumens (Nominal)	GCR610-12-4L-FSW-PA2-DRDM-UNV-2/840	6247	74.9	83.4 lm/W	-20°C / 35°C -4°F / 95°F	6-F32T8 3-F54T5HO	*
1X4 - 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)	GCR610-2HE-4L-FSW-PA2-DRDM-UNV-1/840	1168	13.1	89.5 lm/W	-20°C / 35°C -4°F / 95°F	1-F32T8	*
4000 Lumens (Nominal)	GCR610-4HE-4L-FSW-PA2-DRDM-UNV-1/840	2077	23.5	88.6 lm/W	-20°C / 35°C -4°F / 95°F	2-F32T8 2-PL-L/40	*
6000 Lumens (Nominal)	GCR610-6HE-4L-FSW-PA2-DRDM-UNV-1/840	3138	39.0	80.6 lm/W	-20°C / 35°C -4°F / 95°F	3-F32T8 3-PL-L/40	*
12000 Lumens (Nominal)	GCR610-12HE-4L-FSW-PA2-DRDM-UNV-2/840	6209	70.7	87.8	-20°C / 35°C -4°F / 95°F	6-F32T8 3-F54T5HO	LA-T3588
2X2 - 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	1550	15.7	98.6 lm/W	-20°C / 35°C -4°F / 95°F	2-F17T8 2-F14T5	*
3000 Lumens (Nominal)	GCR620-3-2L-FSW-PA2-DRDM-UNV-2/840	1486	24.3	93.5 lm/W	-20°C / 35°C -4°F / 95°F	3-F17T8 2-F14T5	*
4000 Lumens (Nominal)	GCR620-4-2L-FSW-PA2-DRDM-UNV-2/840	2961	33.1	89.4 lm/W	-20°C / 35°C -4°F / 95°F	4-F17T8, 4-F14T5 100W MH	LA-T3222
6000 Lumens (Nominal)	GCR620-6-2L-FSW-PA2-DRDM-UNV-2/840	4234	52.3	80.9 lm/W	-20°C / 35°C -4°F / 95°F	2-FB32T8 U-Bent	*
8000 Lumens (Nominal)	GCR620-8-2L-FSW-PA2-DRDM-UNV-2/840	5501	50.7	108.6 lm/W	-20°C / 35°C -4°F / 95°F	150W MH	*
12000 Lumens (Nominal)	GCR620-12-2L-FSW-PA2-DRDM-UNV-4/840	8467	104.6	80.9 lm/W	-20°C / 35°C -4°F / 95°F	250W MH	*
2X2 - 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	1486	12.0	123.9 lm/W	-20°C / 35°C -4°F / 95°F	2-F17T8 2-F14T5	*
3000 Lumens (Nominal)	GCR620-3HE-2L-FSW-PA2-DRDM-UNV-2/840	2219	18.3	121.8 lm/W	-20°C / 35°C -4°F / 95°F	3-F17T8 2-F14T5	*
4000 Lumens (Nominal)	GCR620-4HE-2L-FSW-PA2-DRDM-UNV-2/840	2926	24.7	118.4 lm/W	-20°C / 35°C -4°F / 95°F	4-F17T8, 4-F14T5 100W MH	*
6000 Lumens (Nominal)	GCR620-6HE-2L-FSW-PA2-DRDM-UNV-2/840	4425	39.4	112.3 lm/W	-20°C / 35°C -4°F / 95°F	2-FB32T8 U-Bent	*
12000 Lumens (Nominal)	GCR620-12HE-2L-FSW-PA2-DRDM-UNV-4/840	8529	75.5	113.0 lm/W	-20°C / 35°C -4°F / 95°F	250W MH	*

SYSTEM DATA

THESE ARE THE MOST POPULAR LUMEN PACKAGES. PLEASE CONSULT FACTORY FOR ADDITIONAL SYSTEM DATA.

2x4 - LED LUMEN PACKAGE	WHITE LED LUMEN PACKAGE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
2000 Lumens (Nominal)	GCR620-2-4L-FSW-PA2-DRDM-UNV-2/840	1727	15.2	113.6 lm/W	-20°C / 35°C -4°F / 95°F	1-F32T8	*
4000 Lumens (Nominal)	GCR620-4-4L-FSW-PA2-DRDM-UNV-2/840	3378	31.4	107.4 lm/W	-20°C / 35°C -4°F / 95°F	2-F32T8 2-PL-L/40	*
6000 Lumens (Nominal)	GCR620-6-4L-FSW-PA2-DRDM-UNV-2/840	4952	47.5	104.2 lm/W	-20°C / 35°C -4°F / 95°F	3-F32T8 3-PL-L/40	LA-T3224
8000 Lumens (Nominal)	GCR620-8-4L-FSW-PA2-DRDM-UNV-2/840	6453	66.7	96.8 lm/W	-20°C / 35°C -4°F / 95°F	4-F32T8 2-F54T5HO	*
12000 Lumens (Nominal)	GCR620-12-4L-FSW-PA2-DRDM-UNV-4/840	9224	104.6	88.1 lm/W	-20°C / 35°C -4°F / 95°F	6-F32T8 3-F54T5HO	*
2X4 - 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	1586	11.8	134.9 lm/W	-20°C / 35°C -4°F / 95°F	1-F32T8	*
4000 Lumens (Nominal)	GCR620-4HE-4L-FSW-PA2-DRDM-UNV-2/840	3238	24.0	135.0 lm/W	-20°C / 35°C -4°F / 95°F	2-F32T8 2-PL-L/40	*
6000 Lumens (Nominal)	GCR620-6HE-4L-FSW-PA2-DRDM-UNV-2/840	4834	36.6	132.1 lm/W	-20°C / 35°C -4°F / 95°F	3-F32T8 3-PL-L/40	*
8000 Lumens (Nominal)	GCR620-8HE-4L-FSW-PA2-DRDM-UNV-2/840	6375	49.4	128.9 lm/W	-20°C / 35°C -4°F / 95°F	4-F32T8 2-F54T5HO	*
12000 Lumens (Nominal)	GCR620-12HE-4L-FSW-PA2-DRDM-UNV-4/840	9291	75.5	123.0 lm/W	-20°C / 35°C -4°F / 95°F	6-F32T8 3-F54T5HO	*

NOTE:
System data is based on 120V input voltage.
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.

MECHANICAL OPTIONS

FS W

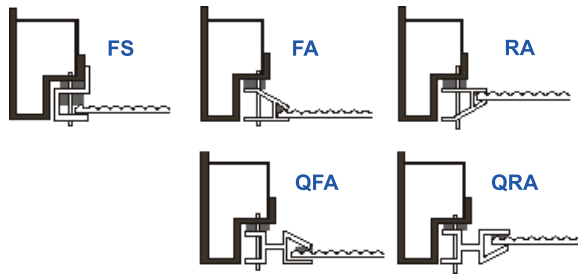
FINISHES

- W** White Enamel
- B** Black Enamel
- B** Natural Anodized Aluminum (Only FA/RA/QFA/QRA Styles)

STYLES

- FS** Flat Steel
- FA** Flat Extruded Aluminum
- RA** 5/8" Regressed Extruded Aluminum
- QFA** Flat Extruded Aluminum-Black Reveal
- QRA** 1/2" Regressed Extruded Aluminum-Black Reveal

CROSS SECTION



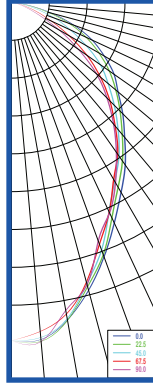
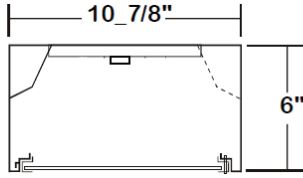
FEATURES

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

PHOTOMETRIC DATA - GCR600 SERIES

GCR610-4-4L-FSW-PA-DRDM-UNV-1/840

TEST NO. = LA-T3587
 LED TYPE = 48 LED MODULE
 NO. OF MODULE = 1
 SYSTEM WATT (W) = 27.0
 CRI = > 80
 L70(Hrs.) = 50,000
 PHOTOMETRY TYPE = C



CANDLEPOWER			
ANGLE	END	45	CROSS
0	1155	1155	1155
5	1108	1118	1105
10	1052	1060	1055
15	1004	978	967
20	899	870	849
25	810	768	762
30	731	687	693
35	665	626	612
40	592	556	527
45	524	481	443
50	463	418	364
55	414	359	269
60	353	292	177
65	289	219	108
70	220	151	60
75	144	90	29
80	65	37	12
85	19	10	4
90	2	1	0

ZONAL LUMEN SUMMARY

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	736	18.1	34.7
0-40	1132	27.7	53.1
0-60	1816	44.5	85.2
0-90	2132	52.2	100
90-120	0.4	0.0	0.0
90-150	0.4	0.0	0.0
90-180	0.4	0.0	0.0
0-180	2132	52.2	100

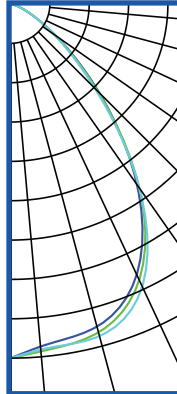
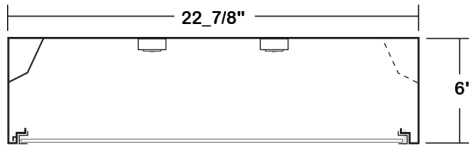
Luminaire Output = 2132lm
 Luminaire Efficacy = 78.96lm/W
 Luminaire Efficiency = 52.2%

SPACING CRITERION

ALONG	ACROSS
0.96	0.91

GCR620-4-2L-FSW-PA2-DRDM-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
105	0	0	0
110	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	0.0	0.0	0.0
90-150	0.0	0.0	0.0
90-180	0.0	0.0	0.0
0-180	2961	69.1	100

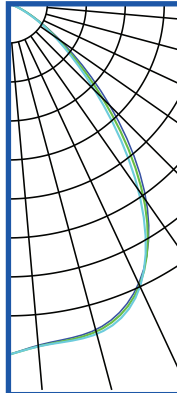
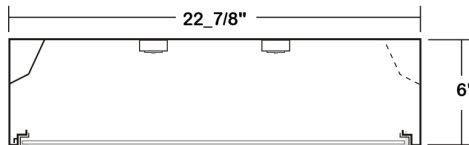
Luminaire Output = 2961lm
 Luminaire Efficacy = 89.4 lm/W
 Luminaire Efficiency = 69.1%

SPACING CRITERION

ALONG	ACROSS
1.10	1.12

GCR620-6-4L-FSW-PA2-DRDM-UNV-1/840

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
105	0	0	0
110	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	34.0	45.1
0-40	3444	52.4	69.5
0-60	4726	71.9	95.4
0-90	4952	75.3	100.0
90-120	0.0	0.0	0.0
90-150	0.0	0.0	0.0
90-180	0.0	0.0	0.0
0-180	4952	75.3	100.0

Luminaire Output = 4952lm
 Luminaire Efficacy = 104.2 lm/W
 Luminaire Efficiency = 75.3%

SPACING CRITERION

ALONG	ACROSS
1.17	1.14