LA LIGHTING

CLEAN ROOM [LED]
GCR720 (2X4) SERIES (2X2 AVAILABLE)
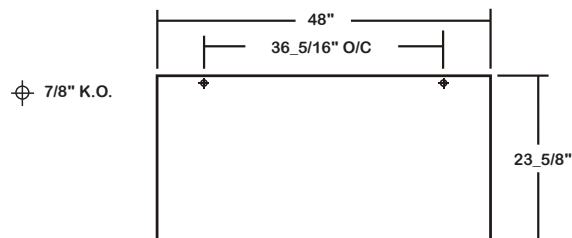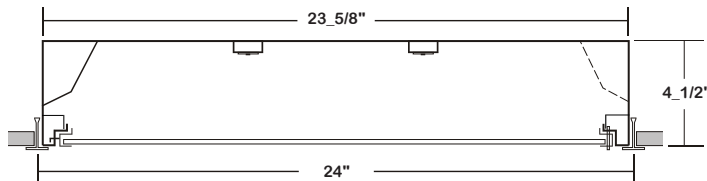### CLASS 1000/10000 CLEAN ROOM GRID LUMINAIRE

JOB	
TYPE	
DATE	

WWW.LALIGHTING.COM
626-454-8300

CLASS 1000/10000 GRID MOUNTED LED LUMINAIRE FOR 1" OR 1_1/2" WIDE INVERTED T-BAR CEILINGS
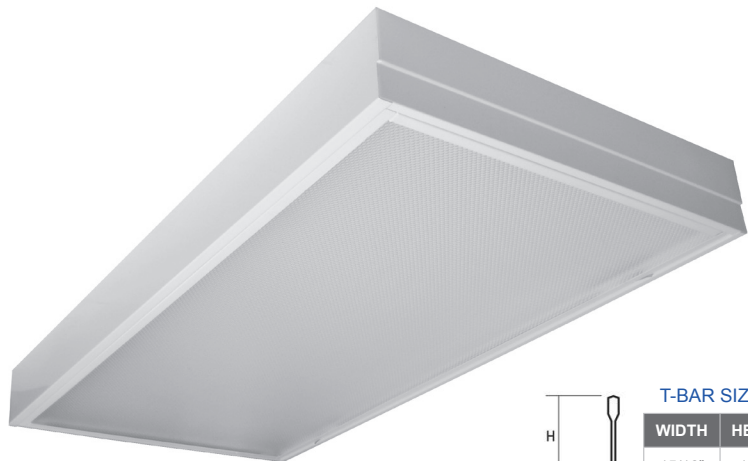
DIMENSIONS

T-BAR SIZING

WIDTH	HEIGHT
15/16"	1_1/2"
1_1/2"	1_1/2"

APPLICATIONS

• Clean Room, Sealed Ceiling Areas, Commercial

FEATURES

• 0-10V dimming driver standard *(See DRIVER OPTIONS for other dimming types)*
• Supports California Title 24 compliance

OPTIONS

• Full customization available upon request
• Additional lumen packages and color temperatures available
• Controls and sensors available *(See SENSOR OPTIONS for controls and sensors)*
• Wireless control options available *(See SENSOR OPTIONS for wireless controls)*
• Variety of lenses available *(See OPTICAL OPTIONS for lenses)*
• Emergency battery pack available *(See BATTERY PACK OPTIONS for battery pack options)*
• Antimicrobial finished housing and door frame available
• Tamper proof screws available

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
• 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) ≤ 20%

LISTING
• UL USA and Canada listed / suitable for damp locations

WARRANTY
• 5-year limited warranty standard, 10-year limited warranty available.

Tunable White

MADE IN THE U.S.A.
Revised 07/13/20
WARNING

ORDERING INFORMATION

EXAMPLE: GCR720-4-4L-FSW-PA2-TP-BPL1.5-DRDM-UNV-2/840

SERIES	LED LUMEN PACKAGE	EFFICACY	NOMINAL LENGTH	FINISH	DOOR FRAME	OPTICAL	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROW	CRI / CCT
GCR720			**4L**		**FSW**				**DRDM**	**UNV**	**2**	
GCR720 Class 1000 / 10000 Clean Room Grid LED Luminaire	**2** Nom. 2000 Lumens **4** Nom. 4000 Lumens **6** Nom. 6000 Lumens **8** Nom. 8000 Lumens **12** Nom. 12000 Lumens *Additional Lumen Packages Available	**(Blank)** Standard **HE** High Efficacy (Only 2000 / 4000 / 6000 / 12000 lumens Systems)	**4L** 2' x 4'	**AMF** Antimicrobial Finished Housing and Door Frame *Leave Blank if Not Specified	**FSW** Flat Steel White Enamel Door Frame *See DOOR FRAME for Options*	**PA2** Clear Prismatic Acrylic 0.125 Nominal **FPA2** Frosted Prismatic Acrylic 0.125 Nominal *See OPTICAL OPTIONS for Options*	**TP** Tamper Proof Screws (Hex Socket with Post) *Leave Blank if Not Specified *Additional Mechanical Options*	**BPL1.5** Emergency Battery Pack, Nom. 1500 lm *See BATTERY PACK OPTIONS for Options* **MSxx** Motion Sensor **WLC(LEDRU)** Wireless Control *See SENSOR OPTIONS for Options* *Leave Blank if Not Specified	**DRDM** 0-10V Dimming Driver *See DRIVER OPTIONS for Options*	**UNV** 120V-277V *See DRIVER OPTIONS for Options*	**2** Two LED Rows	**830** 80+CRI / 3000K Color Temp. **835** 80+CRI / 3500K Color Temp. **840** 80+CRI / 4000K Color Temp. **850** 80+CRI / 5000K Color Temp. **8TW** Tunable White 827 to 865 *Additional CRI & Color Temp*

SYSTEM DATA

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

LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
2000 Lumens (Nominal)	GCR720-2-4L-FSW-PA2-DRDM-UNV-2/840	1763 lm	15.2 W	116.0 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	GCR720-4-4L-FSW-PA2-DRDM-UNV-2/840	3447 lm	31.3 W	110.1 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	LA-T3174-2
6000 Lumens (Nominal)	GCR720-6-4L-FSW-PA2-DRDM-UNV-2/840	4903 lm	45.5 W	107.9 lm/W	-20°C / 35°C	3-F32T8	LA-T3395-2
8000 Lumens (Nominal)	GCR720-8-4L-FSW-PA2-DRDM-UNV-2/840	6587 lm	66.7 W	98.8 lm/W	-20°C / 35°C	4-F32T8, 2-F54T5HO	*
12000 Lumens (Nominal)	GCR720-12-4L-FSW-PA2-DRDM-UNV-2/840	9629 lm	101.1 W	95.3 lm/W	-20°C / 35°C	6-F32T8, 3-F54T5HO	LA-T3237-5

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)	GCR720-2HE-4L-FSW-PA2-DRDM-UNV-2/840	1616 lm	12.6 W	128.7 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	GCR720-4HE-4L-FSW-PA2-DRDM-UNV-2/840	3272 lm	25.4 W	128.9 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	*
6000 Lumens (Nominal)	GCR720-6HE-4L-FSW-PA2-DRDM-UNV-2/840	4904 lm	38.5 W	127.4 lm/w	-20°C / 35°C	3-F32T8	*
8000 Lumens (Nominal)	GCR720-8HE-4L-FSW-PA2-DRDM-UNV-2/840	6513 lm	51.8 W	125.6 lm/W	-20°C / 35°C	4-F32T8, 2-F54T5HO	*
12000 Lumens (Nominal)	GCR720-12HE-4L-FSW-PA2-DRDM-UNV-2/840	9663 lm	79.3 W	121.9 lm/W	-20°C / 35°C	6-F32T8, 3-F54T5HO	*

NOTE:
System data above 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 from -20°C to 35°C.
Additional lumen packages and color temperatures available.

DRIVER OPTIONS

PLEASE CONSULT FACTORY TO SEE IF YOUR SELECTED DRIVER OPTION WORKS WITH THIS FIXTURE.

DRDM (TY) UNV

VOLTAGE

120V	120 Volt
277V	277 Volt
UNV	Universal 120-277 Volt *
347V	347 Volt
480V	480 Volt

TY

TY	10-Years Limited Warranty

DRIVER TYPE

DRDM	0-10V Dimming Driver *
DRDM1	0-10V Dimming Driver, 1% Dimming
DRDM2C	2-Channel 0-10V Dimming Driver (for Color Tunable White)
DR2W	2-Wire Phase Dimming Driver
DRDA	Digital Addressable DALI Dimming Driver
DRDA2C	Digit Digital Addressable DALI Type8 2-Channel Driver (for Color Tunable White)
DRDA2.0	Digital Addressable DALI 2.0 Dimming Driver
DRDA2.02C	Digital Addressable DALI 2.0 Type8 2-Channel Driver (for Color Tunable White)
DRSD	Step Dimming Driver
DR(LTEA2W)	Lutron® 2-Wire 1% Dimming Driver (120V Forward Phase only)
DR(LDE1)	Lutron® EcoSystem 1% Soft-On, Fade-to-Black™ Dimming Driver
DR(LDE5)	Lutron® EcoSystem 5% Dimming Driver
DR(PEQ0E)	Lutron® EcoSystem 0.1% Soft-On, Fade-to-Black Dimming Driver
DR(PSQ020)	Lutron® T-Series Digital 1% Dimming 2-Channel Driver (for Color Tunable White)
DRCR	Control Ready Driver
DRCR(DXL)	Osram Dexal Driver
DRCR(SR)	Philips Sensor Ready Driver

BATTERY PACK OPTIONS

PLEASE CONSULT FACTORY TO SEE IF YOUR SELECTED BATTERY PACK OPTION WORKS WITH THIS FIXTURE.

LED EMERGENCY BATTERY PACKS
(Operate for 90 minutes unless otherwise specified)

BPL SL 1.5 (2H)

NOTE

2H	2 hours

LUMEN PACKAGE

0.7	Nominal 750 Lumens
1.5	Nominal 1500 Lumens *
3.0	Nominal 3000 Lumens

Additional lumen packages available

TYPE

(Blank)	Normal Ambient Temp. / Standard Operation
C	Cold Environment (-20°C)
F	With Flex for Remote Mounting
SL	Slim Casing
ST	Self Test / Diagnostic

* Normal Stock Item

SENSOR OPTIONS

HIGH FREQUENCY - INTERNALLY MOUNTED BEHIND FIXTURE LENS

MSHPC - Motion Sensor High Frequency (Microwave) with Photocell Option
• Super high frequency motion sensor (also known as microwave sensor) which detects movement when installed behind low density fixture materials, such as polycarbonate, acrylic and glass diffusers
• Holds lights OFF when sufficient daylight is present regardless of motion detection
• Selectable sensitivity and detection area
• Universal Voltage (120V-277V)
• Photocell is disabled by default

MSH - Motion Sensor High Frequency (Microwave)
• Super high frequency motion sensor (also known as microwave sensor) which detects movement when installed behind low density fixture materials, such as polycarbonate, acrylic and glass diffusers
• Turns light ON/OFF based on motion detection
• Universal Voltage (120V-277V)

enocean   CONTROLS AND SENSORS

WLC(LEDRU) - EnOcean® LED Relay Zone Controller
• Supports a single LED fixture or multiple daisy chained LED fixtures
• Module installed inside lighting fixture

ESRPU-W-EO - EnOcean® Rocker Switch – Single – Surface Mount
• Wireless single rocker switch with mounting plate
• No batteries needed

EDRPU-W-EO - EnOcean® Rocker Switch – Double – Surface Mount
• Wireless double rocker switch with mounting plate
• No batteries needed

S3054-N300 - EnOcean® Navigan NWC 300U – Commissioning Tool
• Navigan Wireless Commissioner is used to configure EnOcean controllers & sensors
• It can be used to define link tables, change parameters/settings, and to edit & store projects
• Configuration settings can be saved and cloned to enable quick configuration
• Connectivity is through the NWC 300U USB Stick

EOSWU-W-EO - EnOcean® Occupancy Sensor – Wall Mount
• Wireless wall mounted occupancy sensor
• Solar powered - no batteries needed (coin battery operated in low light conditions)
• PIR motion sensor with both wide angle (50') and long range (100') options
• Mounting height: 6-8 feet

EOSCU-W-EO - EnOcean® Occupancy Sensor – Ceiling Mount
• Wireless ceiling mounted occupancy sensor
• Solar powered - no batteries needed (coin battery operated in low light conditions)
• PIR motion sensor with 360 degree viewing angle lens (34' diameter)
• Mounting height: 7-10 feet

ELLSU-W-EO - EnOcean® Light Level Sensor – Ceiling Mount
• Light Level sensor that measures and reports the level of available natural light
• Solar powered - no batteries needed (coin battery operated in low light conditions)
• Enables implementation of daylight harvesting control systems
• Mounting position: At the ceiling, close to ambient light source

---

Los Angeles Lighting Mfg. Co.
Headquarters
10141 Olney Street
El Monte, CA 91731
Made in the USA

Contact Us
T: 626-454-8300
F: 626-454-8399
www.lalighting.com

BAA Compliant

Tunable White

Due to continued product improvements and enhancements, Los Angeles Lighting Manufacturing Company reserves the right to alter specifications, dimensions, data, and/or materials without notice. Please visit our website to view the most current information.

MADE IN THE U.S.A.
Revised 07/13/20
WARNING

OPTICAL OPTIONS

STANDARD LENSES FOR GCR720

PA2	Clear Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base
FPA2	Frosted Prismatic Acrylic, Nom. 0.125 OA Thickness

ADDITIONAL AVAILABLE LENSES

(Not all optics suitable for fixture. Please consult factory to ensure selected optical option suits fixture. Please consult factory regarding any optical options not shown)

EXTRUDED PRISMATIC PATTERNS

| PA	Clear Prismatic Acrylic, No Thickness Specified, Female Prisms 3/16 Square Base
PA3	Clear Prismatic Acrylic, Min. 0.125 OA Thickness, Female Prisms 3/16 Square Base
PA8	Clear Prismatic Acrylic, Nom. 0.187 OA Thickness, Female Prisms 3/16 Square Base
P15	Clear Prismatic Acrylic, Nom. 0.200 OA Thickness, Female Prisms 3/8 Square Base
P195	Clear Prismatic Acrylic, Nom. 0.150 OA Thickness, Male Conical Prisms 3/16 Square Base
P198	Clear Prismatic Acrylic, Nom. 0.187 OA Thickness, Male Conical Prisms 3/16 Square Base
PWA2	White Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base
P3E	3E Batwing Pattern Lens
P195RF	Clear Prismatic Acrylic, 19 Shunts Radio Frequencies To Ground, Nom. 0.150 OA Thickness
PA2UV	Clear Prismatic Acrylic, UV Blocking, Nom. 0.125 OA Thickness

FLAT DIFFUSERS

FWA	Flat White Acrylic, No Thickness Speficied, Stippled Finish	FWA2	Flat White Acrylic, Nom. 0.125 Thickness, Stippled Finish
FFA	Frosted Flat Acrylic, No Thickness Specified	FFA2	Frosted Flat Acrylic, Nom. 0.125 Thickness
CA8	Clear Acrylic, Nom. 0.187 OA Thickness	CA	Clear Acrylic, No Thickness Specified
		CA2	Clear Acrylic, Nom. 0.125 OA Thickness

HIGH IMPACT

VL25	Clear Polycarbonate, Nom. 0.125 Thickness with 0.125 Clear Prismatic Acrylic Overlay
VL37	Clear Polycarbonate, Nom. 0.250 Thickness with 0.125 Clear Prismatic Acrylic Overlay
CPC2	Clear Polycarbonate, Nom. 0.125 OA Thickness
CPC8	Clear Polycarbonate, Nom. 0.187 OA Thickness
PPC8	Clear Prismatic Polycarbonate, Nom. 0.187 OA Thickness, Female Prisms 3/16 Square Base
DRP3	High Impact Clear Prismatic Acrylic, Min. 0.125 OA Thickness, Female Prisms 3/16 Square Base
DRP2	High Impact Clear Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base
DRP8	High Impact Clear Prismatic Acrylic, Nom. 0.187 OA Thickness, Female Prisms 3/16 Square Base
PPC2	Clear Prismatic Polycarbonate, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base

DOOR FRAME

CROSS SECTION

FS
FA
RA
QFA
QRA

FS W
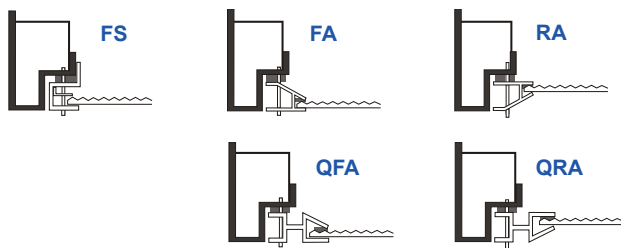
FINISHES
W White Enamel
B Black Enamel
N Natural Anodized Aluminum
(Only FA / RA / QFA / QRA styles)

STYLES
FS Flat Steel (with internal frame rail)
FA Flat Extruded Aluminum
RA 5/8" Regressed Extruded Aluminum
QFA Flat Extruded Aluminum-Black Reveal
QRA 1/2" Regressed Extruded Aluminum-Black Reveal

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

Los Angeles Lighting Mfg. Co.
Headquarters
10141 Olney Street
El Monte, CA 91731
Made in the USA

Contact Us
T: 626-454-8300
F: 626-454-8399
www.lalighting.com

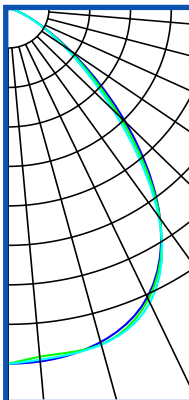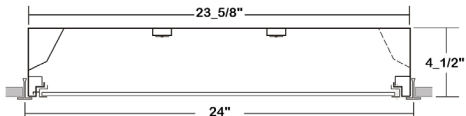**BAA Compliant**

MADE IN THE U.S.A.
Revised 07/13/20
WARNING

PHOTOMETRIC DATA - GCR720 SERIES

GCR720-4-4L-FSW-PA2-DRDM-UNV-2/840

TEST NO. = LA-T3174-2
LED TYPE = 48 LED MODULE
NO. OF MODULE = 4
SYSTEM WATT (W) = 31.3

CRI ≥ 80
L70(Hrs.) ≥ 50,000
PHOTOMETRY TYPE = C

CANDLEPOWER

ANGLE	END	45	CROSS
0	1872	1872	1872
5	1867	1841	1857
15	1820	1832	1833
25	1679	1691	1710
35	1350	1349	1339
45	845	804	757
55	380	363	346
65	134	131	126
75	37	36	36
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	1479	32.9	42.9
0-40	2325	51.8	67.4
0-60	3273	73.0	94.9
0-90	3447	76.8	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	3447	76.8	100.00

Luminaire Output= 3447 lumens
Luminaire Efficacy = 110.1 lm/W

SPACING CRITERION

ALONG	ACROSS
1.19	1.20

Dimensions: 23_5/8", 24", 4_1/2"

GCR720-6-4L-FSW-PA2-DRDM-UNV-2/840

TEST NO. = LA-T3395-2
LED TYPE = 48 LED MODULE
NO. OF MODULE = 4
SYSTEM WATT (W) = 45.5

CRI ≥ 80
L70(Hrs.) ≥ 50,000
PHOTOMETRY TYPE=C
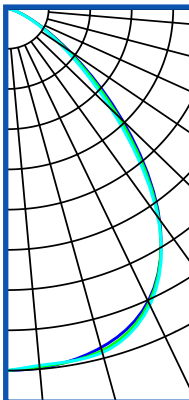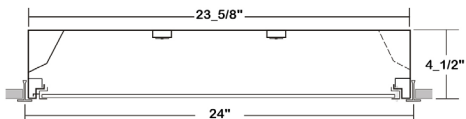
CANDLEPOWER

ANGLE	END	45	CROSS
0	2707	2707	2707
5	2698	2689	2679
15	2625	2650	2664
25	2416	2430	2447
35	1924	1914	1906
45	1178	1133	1071
55	533	505	478
65	190	183	176
75	52	52	50
85	7	7	6
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	2132	34	43
0-40	3335	53	68
0-60	4662	75	95
0-90	4904	79	100
90-120	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	4904	79	100

Luminaire Output= 4903.7 lumens
Luminaire Efficacy = 107.8 lm/W

SPACING CRITERION

ALONG	ACROSS
1.19	1.19

Dimensions: 23_5/8", 24", 4_1/2"

LA LIGHTING **LOS ANGELES LIGHTING MFG. CO.** **10141 OLNEY ST. / EL MONTE, CA 91731** **TEL 626-454-8300 | FAX 626-454-8399 | www.lalighting.com**

GCR720_4FT