



BAYLIGHTER™

GBL229 (2X2) SERIES

HIGH IMPACT HIGH BAY GRID LUMINAIRE

LED

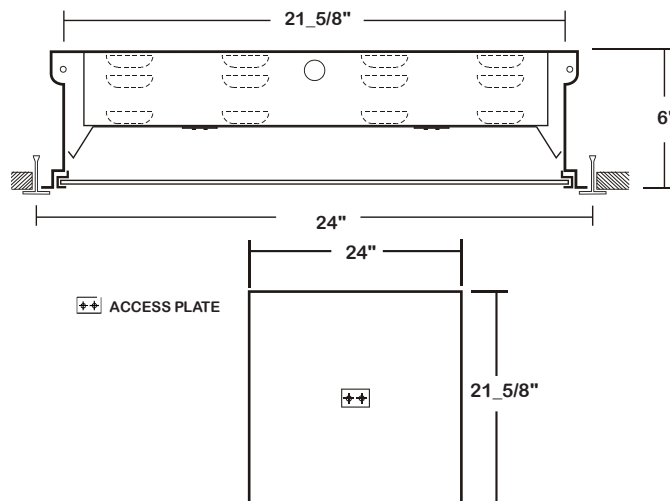
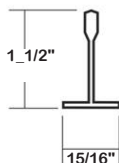
DATE

JOB

WWW.LALIGHTING.COM
626-454-8300

RECESSED MOUNTED HIGH IMPACT HIGH BAY LED LUMINAIRE FOR INVERTED T-BAR CEILING

DIMENSIONS



APPLICATIONS

- Commercial, High Impact Areas, Vandal Resistant Areas

FEATURES

- **High (HT)** ambient temperature version for extreme temperature ranges
- 0-10V dimming driver standard
- Supports California Title 24 compliance
- Safety cables attached to door frame and LED gear tray

OPTIONS

- Full customization available upon request
- Additional lumen packages and color temperatures available
- Controls and sensors available
- Wireless control options available
- Variety of lenses available
- Emergency battery pack available
- 10 kV surge protector
- Tamper proof screws (hex with post) available

SPECIFICATIONS

CONSTRUCTION

- 22 ga. cold rolled steel housing with louvered vents for heat removal (20 ga. housing available as specified)
- 20 ga. cold rolled steel door frame secured by full length piano hinge and 2 captive screws
- One way polyurethane gasket standard

FINISH

- Baked white polyester finish (powder coated finish available) / minimum reflectance 86%
- Door Frame - powder coated finish / painted after fabrication

OPTICAL

- High impact clear prismatic acrylic lens (nominal 0.187) standard
- Inner frame lens retainer rail

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



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



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Revised: 09/12/2025



ORDERING INFORMATION

EXAMPLE: GBL229-16-2L-FSW-DRP8-BPL1.5-DRDM-UNV-2/850HT

SERIES	LED LUMEN PACKAGE	NOMINAL LENGTH	DOOR FRAME	OPTICAL	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROW	CRI / CCT	AMBIENT TEMP.
GBL229		2L	FSW								HT
GBL229 High Impact High Bay Grid LED Luminaire (HT - High Ambient Temperature Version)	8 Nom. 8000 Lumens 12 Nom. 12000 Lumens 16 Nom. 16000 Lumens 24 Nom. 24000 Lumens *Additional Lumen Packages Available	2L 2' x 2'	FSW Flat Steel White Enamel Door Frame	DRP8 High Impact Clear Prismatic Acrylic 0.187 DRP2 High Impact Clear Prismatic Acrylic 0.125	TP Tamper Proof Screws (Hex with Post) *Leave Blank if Not Specified	BPL1.5 Emergency Battery Pack, Nom. 1500 lm SP10 10 kV Surge Protector MSxx Motion Sensor WLC(LED RU) Wireless Control *Leave Blank if Not Specified	DRDM 0-10V Dimming Driver	UNV 120V-277V	2 Two LED Rows (Only 8000 / 12000 / 16000 lumens Systems) 4 Four LED Rows (Only 24000 lumens System)	835 80+CRI / 3500K Color Temp. 840 80+CRI / 4000K Color Temp. 850 80+CRI / 5000K Color Temp. *Additional Color Temp. Available	HT High Ambient Temp.

SYSTEM DATA

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

NOMINAL SIZE	LED LUMEN PACKAGE	CRI / CCT	AMBIENT TEMP.	OPTICAL	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	FLUORESCENT / HID / CFL EQUIVALENT	IES FILES
2' x 2'	8000 lm	850	HT	DRP8	6939 lm	49.5 W	140.2 lm/W	4-F24T5HO, 175 W (MH), 4-BX40	LA-T3139-2
	12000 lm		HT	DRP8	10292 lm	76.1 W	135.2 lm/W	6-F24T5HO, 250 W (MH), 4-BX55	LA-T3140-2
	16000 lm		HT	DRP8	13549 lm	103.3 W	131.1 lm/W	8-F24T5HO, 400 W (MH), 8-BX40	LA-T3141-2
	24000 lm		HT	DRP8	21428 lm	163.6 W	131.0 lm/W	12-F24T5HO, 12-BX55	*

NOTE:

System data above is based on 120V input voltage.

Actual performance may differ as a result of end-user environment and application.

HT: High Ambient Operating Temperature Minimum -30°C / Maximum (please consult factory)

Additional lumen packages and color temperatures available.



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SENSOR OPTIONS

HIGH FREQUENCY - INTERNAL FIXTURE MOUNT

MSHPC - Motion Sensor High Frequency (Microwave) & Photocell

- 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)
- Mounting height: 10-20 feet

MSHPCD - Motion Sensor High Frequency (Microwave) & Photocell Dimming

- 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
- Variably dims output to desired preset level and stand-by period when unoccupied (full on with motion)
- Selectable sensitivity and detection area
- Universal Voltage (120V-277V)
- Mounting height: 10-20 feet

 LUTRON® CONTROLS AND SENSORS**FCJS-010 - Lutron® Vive PowPak® 0-10V Wireless Fixture Control**

- One per fixture (external mount)
- Controls 1A of load or up to 3 drivers
- Universal Voltage (120V-277V)

FCJS-ECO - Lutron® Vive PowPak® EcoSystem Wireless Fixture Control

- One per fixture (external mount)
- Controls 1A of load or up to 3 drivers
- Universal Voltage (120V-277V)

PJ2-2BRL - Lutron® Pico® 2-Button Wireless Remote

- Works with Wireless Fixture Controls
- Controls ON/OFF and dimming UP/DOWN

FC-SENSOR - Lutron® PowPak® Occupancy/Daylight Sensor

- Turns light ON/OFF based on motion
- Recommended mounting height of 8-12'
- For dry and damp locations
- Universal Voltage (120V-277V)

FC-VSENSOR - Lutron® PowPak® Vacancy/Daylight Sensor

- Turns light OFF when area is vacant
- Recommended mounting height of 8-12'
- For dry and damp locations
- Universal Voltage (120V-277V)

**CONTROLS AND SENSORS****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

ESDRPU-W-EO - EnOcean® Rocker Switch – Double – Surface Mount

- Wireless double rocker switch with mounting plate
- No batteries needed

S3054-N30 - 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

EOSCU-W-EO - EnOcean® Light Level Sensor

- 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

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MADE IN THE USA
BABA/BAA Compliant

OPTICAL OPTIONS

STANDARD LENSES FOR GBL229

DRP8	High Impact Clear Prismatic Acrylic, Nom. 0.187 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

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

FPA2	Frosted Prismatic Acrylic, Nom. 0.125 OA Thickness
PA2	Clear Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base
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
P3E	3E Batwing Pattern Lens
P195RF	Clear Prismatic Acrylic, 19 Shunts Radio Frequencies To Ground, Nom. 0.150 OA Thickness

FLAT DIFFUSERS

FFA	Frosted Flat Acrylic, No Thickness Specified	FFA2	Frosted Flat Acrylic, Nom. 0.125 Thickness
CA	Clear Acrylic, No Thickness Specified	CA2	Clear Acrylic, Nom. 0.125 OA Thickness
CA8	Clear Acrylic, Nom. 0.187 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
PPC2	Clear Prismatic Polycarbonate, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base
PPC8	Clear Prismatic Polycarbonate, Nom. 0.187 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
DRP3	High Impact Clear Prismatic Acrylic, Min. 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



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DRIVER OPTIONS

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

DRDM – UNV

* Normal Stock Item

VOLTAGE

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

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 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(PEQ0) Lutron® EcoSystem 0.1% Soft-On, Fade-to-Black Dimming Driver
DR(PSQ0) Lutron® T-Series Digital 1% Dimming 2-Channel Driver (for Color Tunable White)

OF DRIVERS SPECIFIED

(Blank) Not Specified
Number of Drivers Specified per Lighting Fixture

BATTERY PACK OPTIONS

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

BPL

LUMEN PACKAGE

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

*Additional lumen packages available

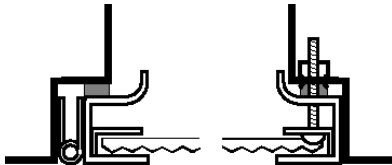
TYPE

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

*Additional options available

DOOR FRAME

CROSS SECTION



FEATURES

- Full Length Piano Hinge
- Two Captive Screws
- Welded Inner Frame Lens Retainer Rail

FS W

FINISHES

W White Enamel
B Black Enamel

STYLES

FS Flat Steel



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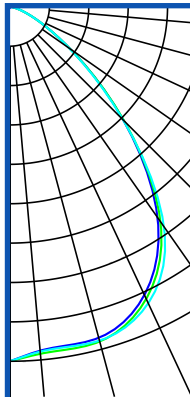
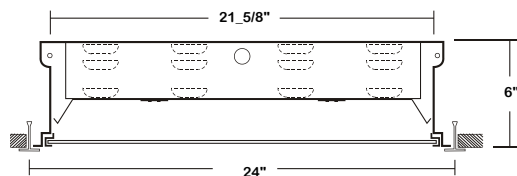
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PHOTOMETRIC DATA - GBL229 SERIES

GBL229-8-2L-FSW-DRP8-1DRDM-UNV-2/850HT

TEST NO.=LA-T3139-2
LED TYPE=144 LED MODULE
NO. OF MODULE=2
SYSTEM WATT (W)=49.5
CRI ≥ 80
L70(Hrs.) ≥ 50,000
PHOTOMETRY TYPE=C



CANDLEPOWER			
ANGLE	END	45	CROSS
0	3665	3665	3665
5	3532	3583	3611
15	3540	3573	3590
25	3285	3328	3392
35	2656	2713	2760
45	1659	1671	1656
55	759	759	752
65	281	280	279
75	80	80	80
85	11	11	11
90	1	1	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	2896	33.1	41.7
0-40	4599	52.6	66.3
0-60	6567	75.0	94.6
0-90	6939	79.3	100.0
90-120	0.1	0.0	0.0
90-150	0.1	0.0	0.0
90-180	0.1	0.0	0.0
0-180	6939	79.3	100.00

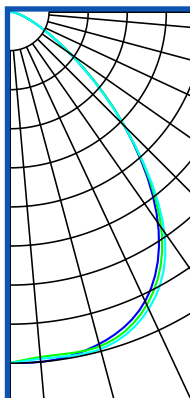
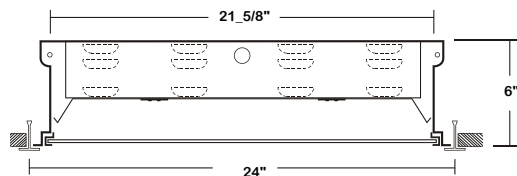
Luminaire Output= 6939 lumens
Luminaire Efficacy = 140.2 lm/W

SPACING CRITERION

ALONG	ACROSS
1.19	1.23

GBL229-12-2L-FSW-DRP8-1DRDM-UNV-2/850HT

TEST NO.=LA-T3140-2
LED TYPE=144 LED MODULE
NO. OF MODULE=2
SYSTEM WATT (W)=76.1
CRI ≥ 80
L70(Hrs.) ≥ 50,000
PHOTOMETRY TYPE=C



CANDLEPOWER			
ANGLE	END	45	CROSS
0	5358	5358	5358
5	5365	5291	5318
15	5251	5288	5331
25	4877	4938	5006
35	3934	4021	4105
45	2465	2473	2463
55	1119	1131	1112
65	418	416	418
75	119	119	120
85	17	16	17
90	1	1	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	4294	33.1	41.7
0-40	6819	52.5	66.3
0-60	9738	75.0	94.6
0-90	10292	79.3	100.0
90-120	0.2	0.0	0.0
90-150	0.2	0.0	0.0
90-180	0.2	0.0	0.0
0-180	10292	79.3	100.00

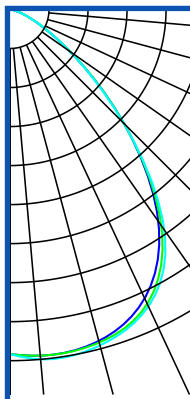
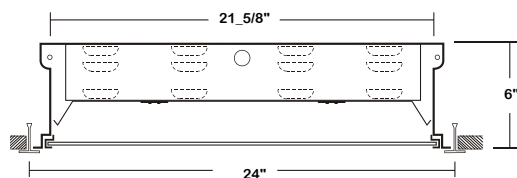
Luminaire Output= 10292 lumens
Luminaire Efficacy = 135.2 lm/W

SPACING CRITERION

ALONG	ACROSS
1.20	1.24

GBL229-16-2L-FSW-DRP8-1DRDM-UNV-2/850HT

TEST NO.=LA-T3141-2
LED TYPE=144 LED MODULE
NO. OF MODULE=2
SYSTEM WATT (W)=103.3
CRI ≥ 80
L70(Hrs.) ≥ 50,000
PHOTOMETRY TYPE=C



CANDLEPOWER			
ANGLE	END	45	CROSS
0	6930	6930	6930
5	6987	6986	7061
15	6900	6932	6992
25	6408	6530	6587
35	5201	5307	5411
45	3246	3245	3233
55	1470	1484	1469
65	547	553	548
75	156	157	153
85	21	22	22
90	1	1	1
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	5650	33.1	41.7
0-40	8984	52.6	66.3
0-60	12819	75.0	94.6
0-90	13548	79.3	100.0
90-120	0.3	0.0	0.0
90-150	0.3	0.0	0.0
90-180	0.3	0.0	0.0
0-180	13549	79.3	100.00

Luminaire Output= 13549 lumens
Luminaire Efficacy = 131.1 lm/W

SPACING CRITERION

ALONG	ACROSS
1.23	1.26

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