



RECESSED LED

GSL320 (2X4) SERIES (2X2 AVAILABLE)

HINGE AND LATCH DOOR FRAME GRID SHALLOW LUMINAIRE

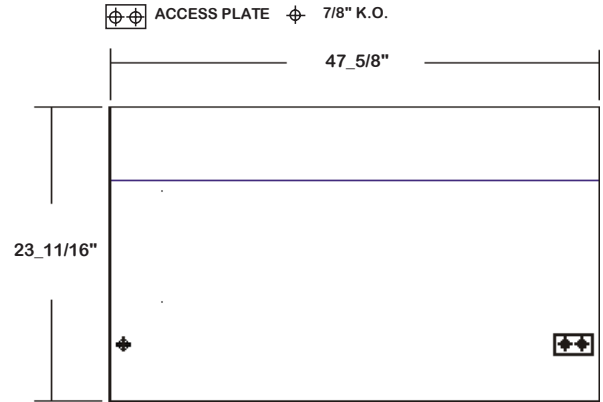
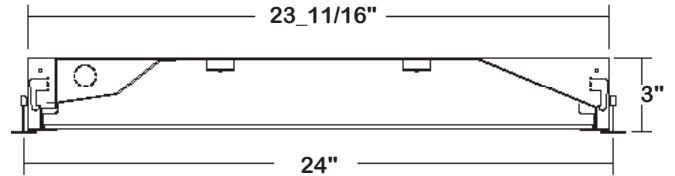
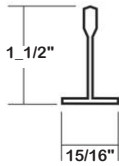
LED

DATE	
JOB	

WWW.LALIGHTING.COM
626-454-8300

RECESSED MOUNTED LED LUMINAIRE FOR INVERTED T-BAR CEILINGS

DIMENSIONS



APPLICATIONS

- Commercial, Office

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
- 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)
- Tamper proof screws available

SPECIFICATIONS

CONSTRUCTION

- 22 ga. cold rolled steel housing (20 ga. housing available as specified)
- 20 ga. cold rolled steel door frame (extruded aluminum in various finishes available) secured by T-hinges and positive spring loaded latches
- One way polyurethane gasket (additional options available)

FINISH

- Baked white polyester finish (powder coated finish available) / minimum reflectance 86%

OPTICAL

- Clear prismatic acrylic lens

ELECTRICAL

- High efficiency drivers coupled with long-life LEDs
- Service life tested at 50,000-193,000 hours (L70), up to 54,000 hours (L90)
- 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 standard, 10-year limited warranty available.



Los Angeles Lighting Mfg. Co.

Contact Us
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ORDERING INFORMATION

EXAMPLE: GSL320-4-4L-FSW-PA-DRDM-UNV-2/840

SERIES	LED LUMEN PACKAGE	EFFICACY	NOMINAL LENGTH	DOOR FRAME	OPTICAL	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROW	CRI / CCT
GSL320			4L					DRDM	UNV	2	
GSL320 Hinge and Latch Door Frame Grid Shallow LED Luminaire	2 Nom. 2000 Lumens 4 Nom. 4000 Lumens 6 Nom. 6000 Lumens 8 Nom. 8000 Lumens 12 Nom. 12000 Lumens <i>*Additional Lumen Packages Available</i>	(Blank) Standard HE High Efficacy	4L 4'	FSW Flat Steel White Enamel See <u>DOOR FRAME for Options</u>	PA Clear Prismatic Acrylic PA2 Clear Prismatic Acrylic 0.125 FPA2 Frosted Prismatic Acrylic 0.125 FFA Frosted Flat Acrylic See <u>OPTICAL OPTIONS for Options</u>	TP Tamper Proof Screws (Hex Socket with Post) GSKNx Neoprene Gasket See <u>GASKET for Options</u> *Leave Blank if Not Specified <u>Additional Mechanical Options</u>	BPL1.5 Emergency Battery Pack Nom. 1500 lm See <u>BATTERY PACK OPTIONS for Options</u> WLC(LED RU) EnOcean Wireless Control See <u>SENSOR OPTIONS for Options</u> *Leave Blank if Not Specified <u>Additional Electrical Options</u>	DRDM 0-10V Dimming Driver See <u>DRIVER OPTIONS for Options</u>	UNV 120V-277V See <u>DRIVER OPTIONS for Options</u>	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 Color Temp. Available

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)	GSL320-2-4L-FSW-PA-DRDM-UNV-2/840	1867 lm	15.2 W	122.9 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	GSL320-4-4L-FSW-PA-DRDM-UNV-2/840 *	4349 lm	31.7 W	137.3 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	LA-T3334
6000 Lumens (Nominal)	GSL320-6-4L-FSW-PA-DRDM-UNV-2/840	5354 lm	47.5 W	112.7 lm/W	-20°C / 35°C	3-F32T8	LA-T3051
8000 Lumens (Nominal)	GSL320-8-4L-FSW-PA-DRDM-UNV-2/840	6978 lm	66.7 W	104.7 lm/W	-20°C / 35°C	4-F32T8, 2-F54T5HO	*
12000 Lumens (Nominal)	GSL320-12-4L-FSW-PA-DRDM-UNV-2/840	9975 lm	104.6 W	95.3 lm/W	-20°C / 35°C	6-F32T8, 3-F54T5HO	*

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)	GSL320-2HE-4L-FSW-PA-DRDM-UNV-2/840	1723 lm	11.8 W	146.0 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	GSL320-4HE-4L-FSW-PA-DRDM-UNV-2/840	3519 lm	24.1 W	146.1 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	*
4000 Lumens (Nominal)	GSL320-4HE-4L-FSW-FFA-DRDM-UNV-2/840 **	3781 lm	25.2 W	150.1 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	LA-T3337
6000 Lumens (Nominal)	GSL320-6HE-4L-FSW-PA-DRDM-UNV-2/840	5253 lm	36.7 W	143.1 lm/W	-20°C / 35°C	3-F32T8	*
8000 Lumens (Nominal)	GSL320-8HE-4L-FSW-PA-DRDM-UNV-2/840	6928 lm	49.6 W	139.6 lm/W	-20°C / 35°C	4-F32T8, 2-F54T5HO	*
12000 Lumens (Nominal)	GSL320-12HE-4L-FSW-PA-DRDM-UNV-2/840	10097 lm	75.8 W	133.2 lm/W	-20°C / 35°C	6-F32T8, 3-F54T5HO	*



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SENSOR OPTIONS



CONTROLS AND SENSORS

WLC(LED RU) - 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

DRIVER OPTIONS

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

BATTERY PACK OPTIONS

PLEASE CONSULT FACTORY TO SEE IF YOUR SELECTED BATTERY PACK 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)
- DRCR Control Ready Driver
- DRCR(DXL) Osram Dexal Driver
- DRCR(SR) Philips Sensor Ready Driver

BPL

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

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
- *Additional options available



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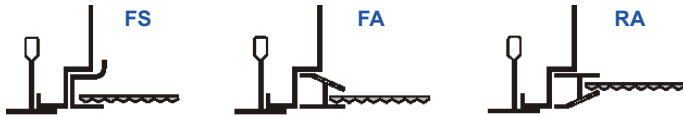
OPTICAL OPTIONS

STANDARD LENSES FOR GSL320

PA	Clear Prismatic Acrylic, No Thickness Specified, Female Prisms 3/16 Square Base
PA2	Clear Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base
FFA	Flat Frosted Acrylic
FPA2	Frosted Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base

DOOR FRAME

CROSS SECTION



FS **W**

FINISHES

- W** White Enamel
- B** Black Enamel
- N** Natural Anodized Aluminum
(Only FA / RA / R2 styles)

STYLES

- FS** Flat Steel
- FA** Flat Extruded Aluminum
- RA** 5/8" Regressed Extruded Aluminum

GASKET

GSK N 1

GASKET

MATERIAL TYPE

- N** Neoprene
- Leave Blank for Polyurethane

LOCATION

- 1** One-Way
- 2** Two-Way
- 3** Three-Way

	1 - WAY	2 - WAY	3 - WAY
T-BAR			
	Only with FS / FA / RA style door frames.	Only with FS style door frame.	Only with FS style door frame.



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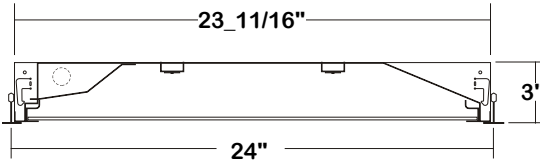
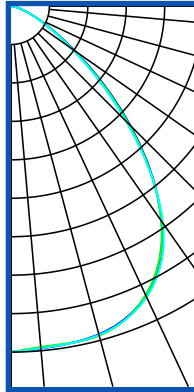
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PHOTOMETRIC DATA - GSL320 - 2X4

GSL320-6-4L-FSW-PA-1DRDM-UNV-2/840

TEST NO. = LA-T3051
 LED TYPE = 48 LED MODULE
 NO. OF MODULE = 2
 SYSTEM WATT (W) = 47.5
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE = C



CANDLEPOWER

ANGLE	END	45	CROSS
0	2736	2736	2736
5	2718	2706	2716
15	2687	2697	2692
25	2526	2523	2539
35	2078	2075	2098
45	1335	1318	1289
55	618	600	586
65	230	225	218
75	64.91	63.78	62.55
85	5.13	5.15	4.80
90	0.31	0.44	0.37
95	0	0	0
105	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	2193	33.34	40.94
0-40	3500	53.23	65.36
0-60	5058	76.91	94.45
0-90	5355	81.44	100.00
90-120	0.11	0.00	0.00
90-150	0.11	0.00	0.00
90-180	0.11	0.00	0.00
0-180	5355	81.44	100

Luminaire Output = 5355.3 lm
 Luminaire Efficacy = 112.7 lm/W

SPACING CRITERION

ALONG	ACROSS
1.23	1.24

