LA LIGHTING

RECESSED LED
GHL310 (1X4) SERIES
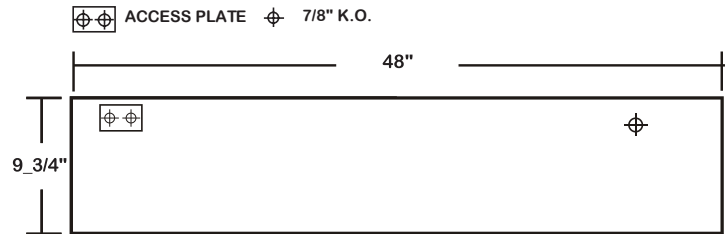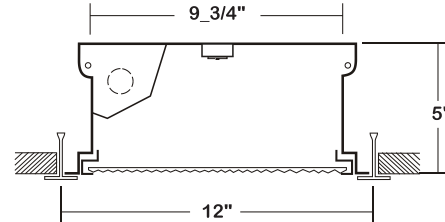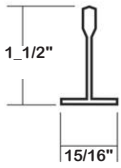### HINGE AND LATCH DOOR FRAME GRID LUMINAIRE

RECESSED MOUNTED LED LUMINAIRE FOR INVERTED T-BAR CEILINGS

DIMENSIONS

1_1/2"
15/16"
9_3/4"
5"
12"
ACCESS PLATE   7/8" K.O.
48"
9_3/4"

APPLICATIONS
• 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
• Aditional 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 DRIVER OPTIONS for emergency 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%
• Door frame: painted after fabrication

OPTICAL
• Clear prismatic acrylic lens

ELECTRICAL
• High efficiency drivers coupled with long-life LEDs
• Service life tested at 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

MADE IN THE U.S.A.
Revised 10/31/19
WARNING

ORDERING INFORMATION

EXAMPLE: GHL310-4-4L-FSW-PA-TP-BPL10-1DRDM-UNV-1/840

SERIES	LED LUMEN PACKAGE	EFFICACY	NOMINAL LENGTH	DOOR FRAME	OPTICAL	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROW	CRI / CCT
GHL310			**4L**					**DRDM**	**UNV**	**1**	
GHL310 Hinge and Latch Door Frame 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** 1X4	**FSW** Flat Steel White Enamel See DOOR FRAME for Options	**PA** Clear Prismatic Acrylic **PA2** Clear Prismatic Acrylic 0.125 **FPA2** Frosted Prismatic Acrylic 0.125 **FFA** Frosted Flat Acrylic See OPTICAL OPTIONS for Options	**TP** Tamper Proof Screws (Hex Socket with Post) **GSKNx** Neoprene Gasket See GASKET for Options *Leave Blank if Not Specified Additional Mechanical Options	**BPL10** Emergency Battery Pack, Constant 10W Nom. 1500 lm See BATTERY PACK OPTIONS for Options **WLC(LEDRU)** EnOcean Wireless Control See SENSOR OPTIONS for Options *Leave Blank if Not Specified Additional Electrical Options	**DRDM** 0-10V One Dimming Driver See DRIVER OPTIONS for Options	**UNV** 120V-277V See DRIVER OPTIONS for Options	**1** One LED Row	**830** 80+CRI / 3000K Color Temp. **835** 80+CRI / 3500K Color Temp. **840** 80+CRI / 4000K Color Temp. **850** 80+CRI / 5000K Color Temp. *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)	GHL310-2-4L-FSW-PA-1DRDM-UNV-1/840	1669 lm	15.7 W	106.1 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	GHL310-4-4L-FSW-PA-1DRDM-UNV-1/840	3188 lm	33.3 W	95.6 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	*
6000 Lumens (Nominal)	GHL310-6-4L-FSW-PA-1DRDM-UNV-1/840	4556 lm	52.3 W	87.1 lm/W	-20°C / 35°C	3-F32T8	*
8000 Lumens (Nominal)	GHL310-8-4L-FSW-PA-1DRDM-UNV-1/840	5949 lm	49.7 W	119.7 lm/w	-20°C / 35°C	4-F32T8, 2-F54T5HO	LA-T3345
12000 Lumens (Nominal)	GHL310-12-4L-FSW-PA-1DRDM-UNV-1/840	9112 lm	104.6 W	87.1 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)	GHL310-2HE-4L-FSW-PA-1DRDM-UNV-1/840	1607 lm	12.0 W	133.5 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	GHL310-4HE-4L-FSW-PA-1DRDM-UNV-1/840	3164 lm	24.8 W	127.5 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	*
6000 Lumens (Nominal)	GHL310-6HE-4L-FSW-PA-1DRDM-UNV-1/840	4612 lm	37.9 W	121.7 lm/W	-20°C / 35°C	3-F32T8	*
12000 Lumens (Nominal)	GHL310-12HE-4L-FSW-PA-1DRDM-UNV-1/840	9223 lm	75.8 W	121.7 lm/W	-20°C / 35°C	6-F32T8, 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.

PERFORMANCE DATA

VIEW PHOTOMETRICS

MADE IN THE U.S.A.
Revised 10/31/19
WARNING

SENSOR OPTIONS

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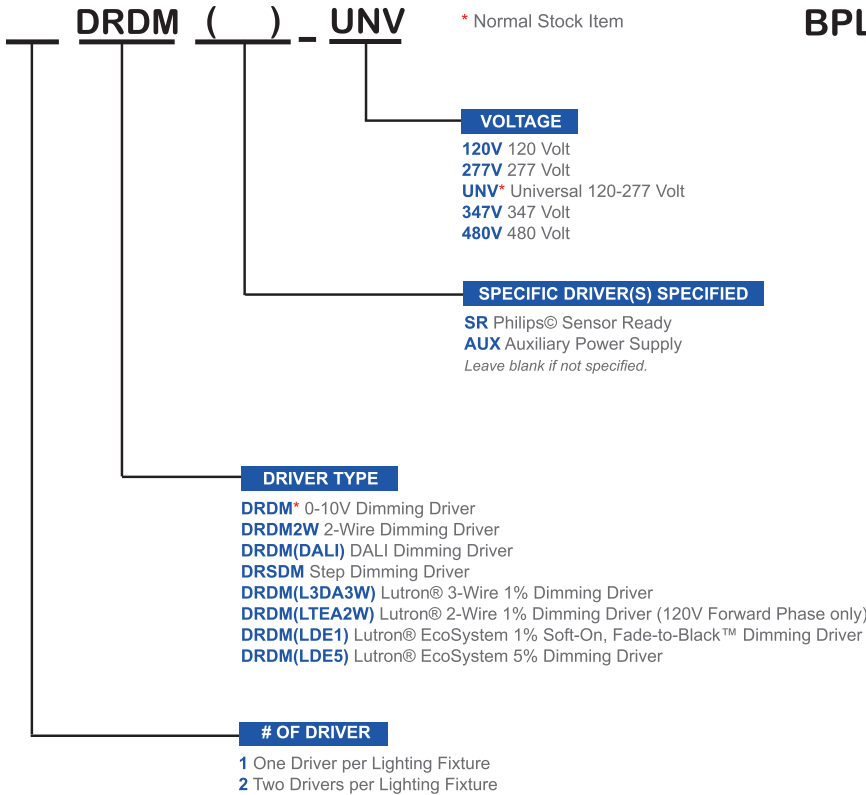
EOSCU-W-EO - EnOcean® Occupancy Sensor – Ceiling Mount
• Wireless ceiling mounted occupancy sensor
• Solar powered - no batteries needed (coin battery operated in low light conditions)
• PIR motion sensor with 360 degree viewing angle lens (34' diameter)
• Mounting height: 7-10 feet

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
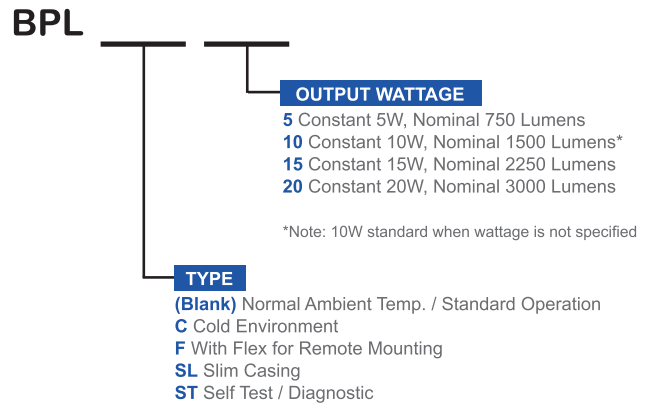• Mounting position: At the ceiling, close to ambient light source

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

SPECIFIC DRIVER(S) SPECIFIED

SR Philips© Sensor Ready
AUX Auxiliary Power Supply
Leave blank if not specified.

DRIVER TYPE

DRDM* 0-10V Dimming Driver
DRDM2W 2-Wire Dimming Driver
DRDM(DALI) DALI Dimming Driver
DRSDM Step Dimming Driver
DRDM(L3DA3W) Lutron® 3-Wire 1% Dimming Driver
DRDM(LTEA2W) Lutron® 2-Wire 1% Dimming Driver (120V Forward Phase only)
DRDM(LDE1) Lutron® EcoSystem 1% Soft-On, Fade-to-Black™ Dimming Driver
DRDM(LDE5) Lutron® EcoSystem 5% Dimming Driver

 # OF DRIVER

1 One Driver per Lighting Fixture
2 Two Drivers per Lighting Fixture

BATTERY PACK OPTIONS

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

BPL __ __

OUTPUT WATTAGE

5 Constant 5W, Nominal 750 Lumens
10 Constant 10W, Nominal 1500 Lumens*
15 Constant 15W, Nominal 2250 Lumens
20 Constant 20W, Nominal 3000 Lumens

*Note: 10W standard when wattage is not specified

TYPE

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

MADE IN USA
c **UL** us
RoHS COMPLIANT

MADE IN THE U.S.A.
Revised 10/31/19
WARNING

OPTICAL OPTIONS

STANDARD LENSES FOR GHL310

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   FA   RA
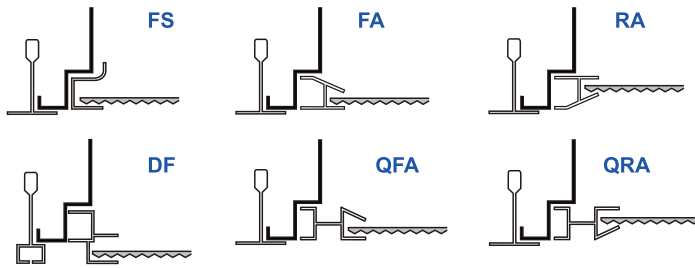
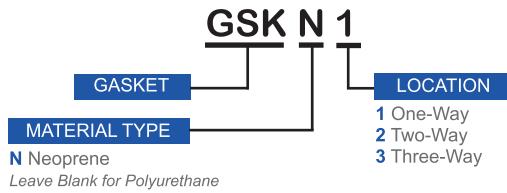DF   QFA   QRA

FS   W

FINISHES

W White Enamel
B Black Enamel
N Natural Anodized Aluminum
   (Only FA / RA / QFA / QRA / DF 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
DF Extruded Aluminum Frame for Don Fine Line® T-Bar

GASKET

GSK N 1

GASKET

MATERIAL TYPE

N Neoprene
Leave Blank for Polyurethane

LOCATION

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

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

PHOTOMETRIC DATA - GHL310 SERIES

GHL310-8-4L-FSW-PA-1DRDM-UNV-1/840

TEST NO. = LA-T3345
LED TYPE = 40 LED MODULE
NO. OF MODULE = 2
SYSTEM WATT (W) = 49.7

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

9_3/4"

5"

12"
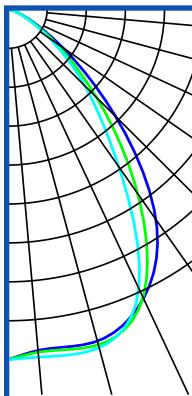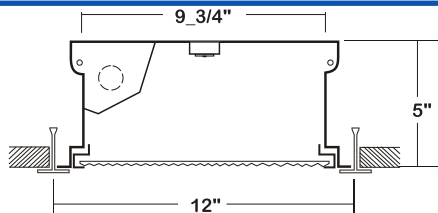
CANDLEPOWER

ANGLE	END	45	CROSS
0	3500	3500	3500
5	3507	3556	3500
15	3473	3504	3522
25	3237	3219	3077
35	2556	2235	1924
45	1487	1226	1064
55	641	556	502
65	216	202	180
75	61	57	51
85	7.3	6.7	5.8
90	0.3	0.2	0.1
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	2807	35.1	47.2
0-40	4210	52.7	70.8
0-60	5685	71.1	95.6
0-90	5948	74.4	100.0
90-120	0	0.0	0.0
90-150	0	0.0	0.0
90-180	0	0.0	0.0
0-180	5948	74.4	100.0

Luminaire Output = 5948.1 lm
Luminaire Efficacy = 119.7 lm/W

SPACING CRITERION

ALONG	ACROSS
1.21	1.11

LOS ANGELES LIGHTING MFG. CO.

10141 OLNEY ST. / EL MONTE, CA 91731
TEL 626-454-8300 | FAX 626-454-8399 | www.lalighting.com

GHL310