



SURFACE MOUNT LED

MHL310 (1X8) SERIES (1X4 AVAILABLE)

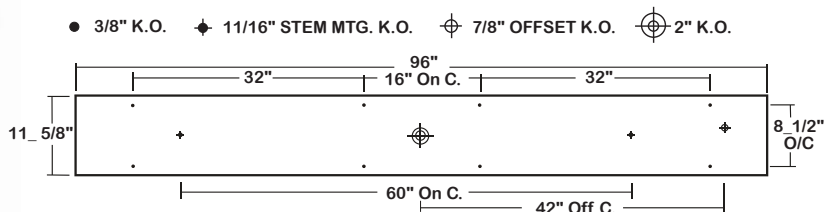
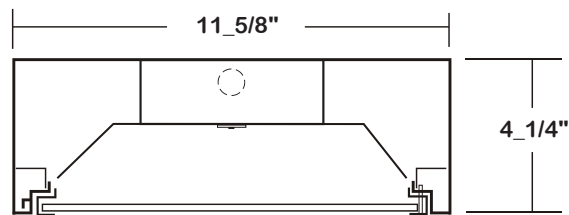
HINGE AND LATCH DOOR FRAME LUMINAIRE

DATE	
JOB	

WWW.LALIGHTING.COM
626-454-8300

SURFACE MOUNTED LED LUMINAIRE

DIMENSIONS



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
- Additional lumen packages and color temperatures available
- Wireless control options available (See *SENSOR OPTIONS* for wireless controls)
- Custom colors available (See *CUSTOM COLORS* for standard and custom options)
- 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
- Tunable white available (2700K-6500K)

SPECIFICATIONS

CONSTRUCTION

- 20 ga. cold rolled steel welded housing
- Two 4 ft. 20 ga. cold rolled steel door frames (extruded aluminum in various finishes available) secured by T-hinges and positive spring loaded latches
- One way polyurethane gasket (See *GASKET* for gasket options)

FINISH

- Baked white powder coated finish / painted after fabrication / minimum reflectance 90%

OPTICAL

- Clear prismatic acrylic lens

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



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Revised 08-02-19

WARNING

ORDERING INFORMATION

EXAMPLE: MHL310-4-8L-FSW-PA-TP-BPL1.5-DRDM-UNV-1/840

SERIES	LED LUMEN PACKAGE	EFFICACY	NOMINAL LENGTH	COLOR	DOOR FRAME	OPTICAL	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROW	CRI / CCT
MHL310			8L						DRDM	UNV	1	
MHL310 Hinge and Latch Door Frame LED Luminaire	4 Nom. 4000 Lumens 8 Nom. 8000 Lumens 12 Nom. 12000 Lumens 16 Nom. 16000 Lumens *Additional Lumen Packages Available	(Blank) Standard HE High Efficacy (Only 4000 / 8000 / 12000 lumens Systems)	8L 1X8	(Blank) Standard White BLK Matte Black CS Camaro Silver BZ Statuary Bronze See <u>CUSTOM COLORS</u> for Options *Additional Colors Available Upon Request	FSW Flat Steel White Enamel See <u>DOOR FRAME</u> for Options	PA Clear Prismatic Acrylic PA2 Clear Prismatic Acrylic 0.125 FPA2 Frosted Prismatic Acrylic 0.125 FFA Frosted Flat Acrylic See <u>OPTICAL OPTIONS</u> for Options	TP Tamper Proof Screws (Hex Socket with Post) GSKNx Neoprene Gasket See <u>GASKET</u> for Options *Leave Blank if Not Specified <u>Additional Mechanical Options</u>	BPL1.5 Emergency Battery Pack, Nom. 1500 lm See <u>BATTERY PACK OPTIONS</u> for Options WLC(LEDRU) EnOcean Wireless Control See <u>SENSOR OPTIONS</u> for Options *Leave Blank if Not Specified <u>Additional Electrical Options</u>	DRDM 0-10V Dimming Driver See <u>DRIVER OPTIONS</u> for Options	UNV 120V-277V See <u>DRIVER OPTIONS</u> 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.

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
4000 Lumens (Nominal)	MHL310-4-8L-FSW-PA-DRDM-UNV-1/840	3161 lm	28.7 W	110.3 lm/W	-20°C / 35°C	2-F32T8	*
8000 Lumens (Nominal)	MHL310-8-8L-FSW-PA-DRDM-UNV-1/840	6315 lm	62.1 W	101.6 lm/W	-20°C / 35°C	4-F32T8, 2-F54T5HO	LA-T3347
12000 Lumens (Nominal)	MHL310-12-8L-FSW-PA-DRDM-UNV-1/840	9382 lm	104.6 W	89.7 lm/W	-20°C / 35°C	6-F32T8	*
16000 Lumens (Nominal)	MHL310-16-8L-FSW-PA-DRDM-UNV-1/840	12251 lm	101.7 W	120.5 lm/W	-20°C / 35°C	8-F32T8, 4-F54T5HO	*

LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
4000 Lumens (Nominal)	MHL310-4HE-8L-FSW-PA-DRDM-UNV-1/840	3309 lm	24.1 W	137.4 lm/W	-20°C / 35°C	2-F32T8	*
8000 Lumens (Nominal)	MHL310-8HE-8L-FSW-PA-DRDM-UNV-1/840	6517 lm	49.6 W	131.3 lm/W	-20°C / 35°C	4-F32T8, 2-F54T5HO	*
12000 Lumens (Nominal)	MHL310-12HE-8L-FSW-PA-DRDM-UNV-1/840	9497 lm	75.8 W	125.3 lm/W	-20°C / 35°C	6-F32T8	*

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](#)



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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

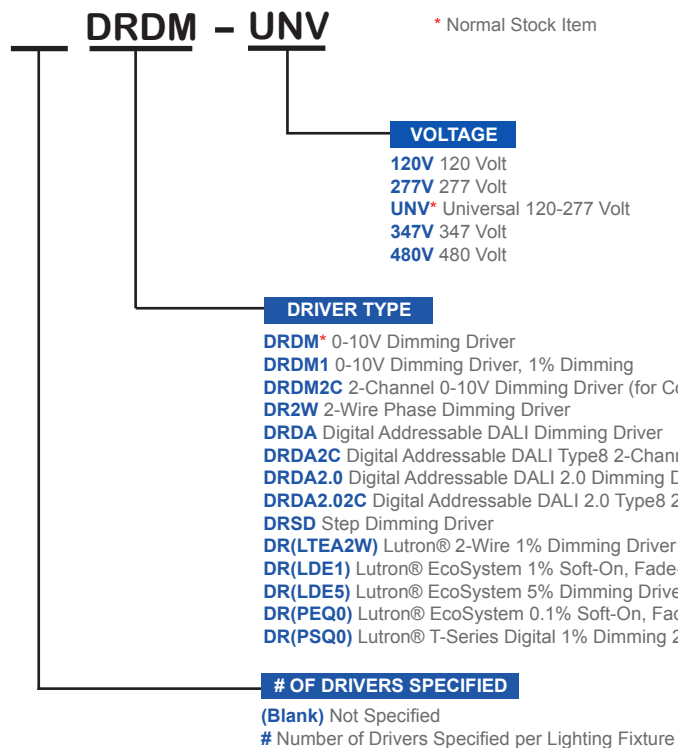
- Wireless ceiling mounted occupancy sensor
- Solar powered - no batteries needed (coin battery operated in low light conditions)
- PIR motion sensor with 360 degree viewing angle lens (34' diameter)
- Mounting height: 7-10 feet

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

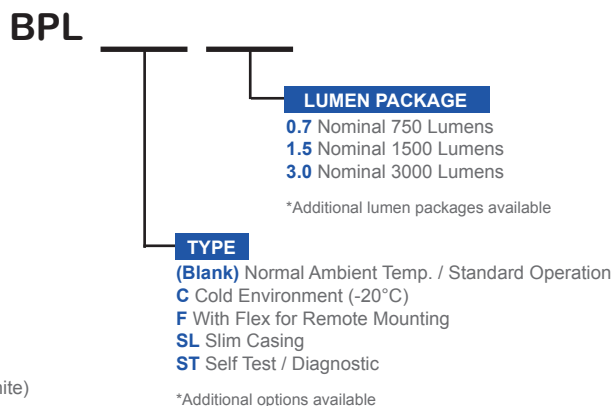
DRIVER OPTIONS

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



BATTERY PACK OPTIONS

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OPTICAL OPTIONS

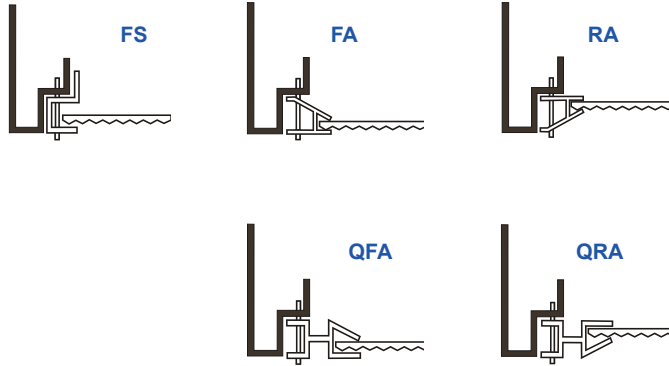
STANDARD LENSES FOR MHL310

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

[CLICK HERE FOR FULL OPTICAL OPTIONS LIST](#)

DOOR FRAME

CROSS SECTION



FS W

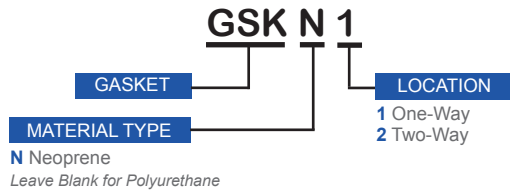
FINISHES

- W** White Enamel
- B** Black Enamel
- N** 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

GASKET



	1 - WAY	2 - WAY
SURFACE MOUNT		

Only with FS / FA / RA / QFA / QRA style door frames.

Only with FS style door frame.

CUSTOM COLORS

BLK - Matte Black

CS - Camaro Silver

BZ - Statuary Bronze

Variety of [RAL colors](#) & [Axalta/DuPont colors](#) available upon request.



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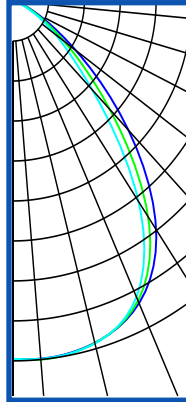
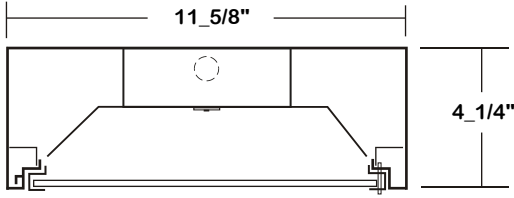
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PHOTOMETRIC DATA - MHL310_8FT SERIES

MHL310-8-8L-FSW-PA-1DRDM-UNV-1/840

TEST NO.=LA-T3347
 LED TYPE= 448 LED MODULE
 NO. OF MODULE=4
 SYSTEM WATT (W)=62.1
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE=C



CANDLEPOWER

ANGLE	END	45	CROSS
0	3375	3375	3375
5	3386	3393	3386
15	3337	3339	3342
25	3144	3118	3079
35	2630	2483	2308
45	1723	1444	1183
55	810	661	551
65	286	243	204
75	80	70	61
85	11	9	7
90	0	0	0
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	2712	33	43
0-40	4267	52	68
0-60	5991	73	95
0-90	6315	77	100
90-120	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	6315	77	100

Luminaire Output= 6315 lumens
 Luminaire Efficacy= 101.6 lm/w

SPACING CRITERION

ALONG	ACROSS
1.25	1.18

