



WET LOCATION LED

FWL310 (1X4) SERIES

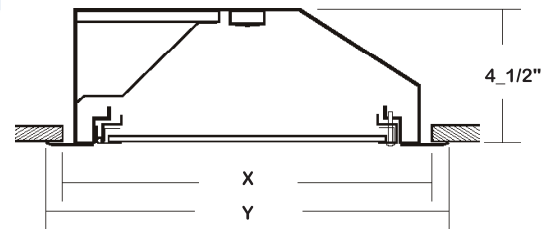
TRIM FLANGE WET LOCATION LUMINAIRE

DATE	
JOB	

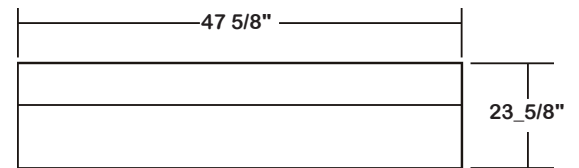
WWW.LALIGHTING.COM
626-454-8300

RECESSED MOUNTED WET LOCATION LED LUMINAIRE

DIMENSIONS



Ceiling Opening X - 12_1/2" X 48_1/8"
Overall Width By Length Y - 13_5/8" X 49_5/8"



APPLICATIONS

- Wet Location, Covered Ceiling, Commercial

FEATURES

- Wet location (UL listed with sprinkler test)
- 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)
- Antimicrobial finished housing and door frame available
- Tamper proof screws available
- Hanger yokes available (See *ACCESSORIES* for details)
- Tunable white available (2700K-6500K)

SPECIFICATIONS

CONSTRUCTION

- 22 ga. electro-galvanized steel welded housing
- All parts fitted and sealed, no unused holes or knockouts
- 20 ga. electro-galvanized steel door frame secured by full length piano hinge and 2 captive screws
- Door frame and lens sealed with closed cell neoprene gasket
- 18 ga. trim flange

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) $\leq 20\%$

LISTING

- UL USA and Canada listed / suitable for wet locations / UL listed with sprinkler test

WARRANTY

- 5-year limited warranty



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Revised: 07/11/19



ORDERING INFORMATION

EXAMPLE: FWL310-4-4L-FSW-PA2-DRDM-UNV-1/840

SERIES	LED LUMEN PACKAGE	EFFICACY	NOMINAL LENGTH	FINISH	DOOR FRAME	OPTICAL	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROW	CRI / CCT
FWL310			4L						DRDM	UNV	1	
FWL310 Trim Flange Wet Location LED Luminaire	2 Nom. 2000 Lumens 4 Nom. 4000 Lumens 6 Nom. 6000 Lumens 8 Nom. 8000 Lumens <i>*Additional Lumen Packages Available</i>	(Blank) Standard HE High Efficacy (Only 2000 / 4000 / 6000 lumens Systems)	4L 1' x 4'	AMF Antimicrobial Finished Housing and Door Frame <i>*Leave Blank if Not Specified</i>	FSW Flat Steel White Enamel Door Frame See DOOR FRAME for Options	PA2 Clear Prismatic Acrylic 0.125 Nominal DRP8 High Impact Clear Prismatic Acrylic 0.187 Nominal FPA2 Frosted Prismatic Acrylic 0.125 Nominal See OPTICAL OPTIONS for Options	TP Tamper Proof Screws (Hex Socket with Post) <i>*Leave Blank if Not Specified</i> <i>Additional Mechanical Options</i>	BPL1.5 Emergency Battery Pack, Nom. 1500 lm See BATTERY PACK OPTIONS for Options WLC(LEDPU) EnOcean Wireless Control See SENSOR OPTIONS for Options <i>*Leave Blank if Not Specified</i> <i>Additional Electrical Options</i>	DRDM 0-10V 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. <i>*Additional Color Temp. Available</i>

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)	FWL310-2-4L-FSW-PA2-DRDM-UNV-1/840	1580 lm	15.7 W	100.5 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	FWL310-4-4L-FSW-PA2-DRDM-UNV-1/840	3018 lm	33.1 W	91.1 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	LA-T3192-7
6000 Lumens (Nominal)	FWL310-6-4L-FSW-PA2-DRDM-UNV-1/840	4314 lm	52.3 W	82.4 lm/W	-20°C / 35°C	3-F32T8	*
8000 Lumens (Nominal)	FWL310-8-4L-FSW-PA2-DRDM-UNV-1/840	5826 lm	53.8 W	108.3 lm/W	-20°C / 35°C	4-F32T8, 2-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)	FWL310-2HE-4L-FSW-PA2-DRDM-UNV-1/840	1498 lm	12.7 W	118.0 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	FWL310-4HE-4L-FSW-PA2-DRDM-UNV-1/840	2983 lm	25.9 W	115.1 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	*
6000 Lumens (Nominal)	FWL310-6HE-4L-FSW-PA2-DRDM-UNV-1/840	4425 lm	39.6 W	111.7 lm/W	-20°C / 35°C	3-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.

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



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MADE IN THE USA
 BAA Compliant

OPTICAL OPTIONS

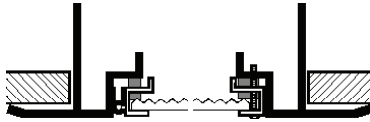
STANDARD LENSES FOR FWL310

PA2	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
FPA2	Frosted Prismatic Acrylic, Nom. 0.125 OA Thickness

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

DOOR FRAME

CROSS SECTION



FEATURES

- Full Length Piano Hinge
- Inverted Lens
- Two 10-24 Captive Machine Screws
- Sealed with Closed Cell Neoprene Gasket

FS W

FINISHES

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

STYLES

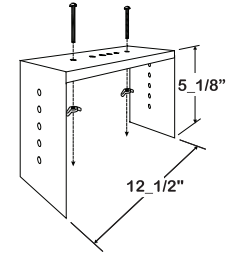
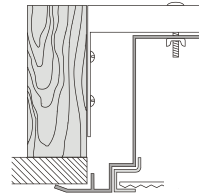
- FS** Flat Steel

ACCESSORIES

HS-12

- Hanger Yokes
- Compatible with all types of recessed flanged fixtures
- 1/4 - 20 x 3" machine screws locate into knockout on back of fixture housing
- Two (2) per fixture

Note: Must drill own holes. Caulking compound should be used to seal the holes.



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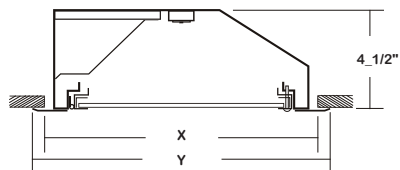
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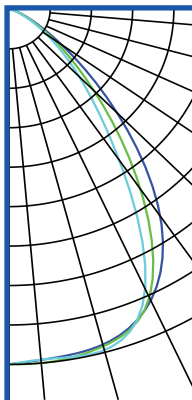
PHOTOMETRIC DATA - FWL310 SERIES

FWL310-4-4L-FSW-PA2-DRDM-UNV-1/840

TEST NO.=LA-T3192-7
 LED TYPE=48 LED MODULE
 NO. OF MODULE=2
 SYSTEM WATT (W)=33.1
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE=C



Ceiling Opening X - 12_1/2" X 48_1/8"
 Overall Width By Length Y - 13_5/8" X 49_5/8"



CANDLEPOWER

ANGLE	END	45	CROSS
0	1835	1835	1835
5	1819	1836	1817
15	1795	1803	1824
25	1661	1644	1595
35	1305	1134	950
45	756	595	492
55	317	267	231
65	109	98	85
75	36	32	24
85	16	7	2
90	4	2	0
95	3	2	0
115	3	2	0
125	3	1	0
135	3	1	0
145	1	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	1444	33.7	47.8
0-40	2154	50.2	71.4
0-60	2870	67.0	95.1
0-90	3007	70.2	99.6
90-120	6.3	0.1	0.2
90-150	9.3	0.2	0.3
90-180	9.7	0.2	0.3
0-180	3018	70.4	100.00

Luminaire Output= 3018 lumens
 Luminaire Efficacy = 91.1 lm/W
 Luminaire Efficiency = 70.4%

SPACING CRITERION

ALONG	ACROSS
1.19	1.09

