



SURFACE MOUNT

MDH410 (1X4) SERIES

6" DEEP LUMINAIRE WITH 2" REGRESSED DOOR FRAME

LED

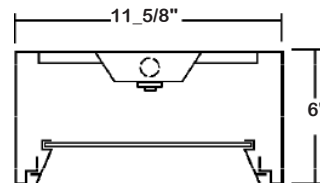
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JOB

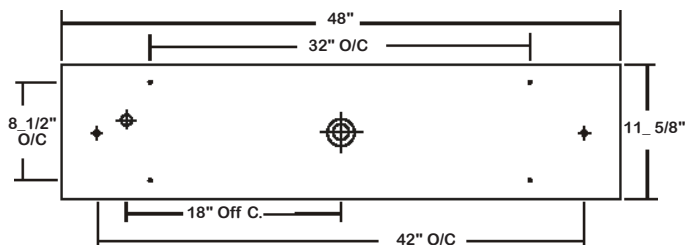
WWW.LALIGHTING.COM
626-454-8300

SURFACE / SUSPENSION MOUNTED LED LUMINAIRE

DIMENSIONS



- 3/8" K.O. ♦ 11/16" STEM MTG. K.O. ⊕ 7/8" OFFSET K.O. ⊕ 2" K.O.



APPLICATIONS

- Office, Lobby, 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)
- Emergency battery pack available (See *BATTERY PACK OPTIONS* for battery pack options)
- Custom colors available (See *CUSTOM COLORS* for color options)
- Tunable white available (2700K-6500K)

SPECIFICATIONS

CONSTRUCTION

- 20 ga. cold rolled steel welded housing
- Heavy wall 2" deep regressed extruded aluminum door frame secured by T-hinges and positive spring loaded latches
- 2 gussets installed in each corner for maximum strength and true miter alignment
- One way polyurethane gasket (See *GASKET* for additional options)

FINISH

- Baked white powder coated finish / painted after fabrication / minimum reflectance 90%
- Reflectors: high reflectance low gloss matte white finish

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) ≤ 20%

LISTING

- UL USA and Canada listed / suitable for damp locations

WARRANTY

- 5-year limited warranty



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Revised 07-08-19

WARNING

ORDERING INFORMATION

EXAMPLE: MDH410-4-4L-R2W-PA-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
MDH410			4L		R2W				DRDM	UNV	1	
MDH410 6" Deep LED Luminaire with 2" Regressed Door Frame	2 Nom. 2000 Lumens 4 Nom. 4000 Lumens 6 Nom. 6000 Lumens 8 Nom. 8000 Lumens *Additional Lumen Packages Available	(Blank) Standard HE High Efficacy (Only 2000 / 4000 / 6000 lumens Systems)	4L 1' x 4'	BLK Black BZ Bronze *Leave Blank for Standard White See CUSTOM COLORS for Options	R2W 2" Regressed Aluminum White Enamel See DOOR FRAME for Options	PA Clear Prismatic Acrylic See OPTICAL OPTIONS for Options	GSKN1 Neoprene One-Way Gasket *Leave Blank if Not Specified See GASKET for Options Additional Mechanical Options	BPL1.5 Emergency Battery Pack, Nom. 1500 lm See BATTERY PACK OPTIONS for Options WLC(XXXXX) Wireless Control See SENSOR OPTIONS for Options *Leave Blank if Not Specified Additional Electrical Options	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. *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)	MDH410-2-4L-R2W-PA-DRDM-UNV-1/840	1631 lm	15.1 W	108.0 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	MDH410-4-4L-R2W-PA-DRDM-UNV-1/840	3116 lm	32.0 W	97.4 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	LA-T3474
6000 Lumens (Nominal)	MDH410-6-4L-R2W-PA-DRDM-UNV-1/840	4455 lm	50.3 W	88.6 lm/W	-20°C / 35°C	3-F32T8	*
8000 Lumens (Nominal)	MDH410-8-4L-R2W-PA-DRDM-UNV-1/840	6024 lm	50.6 W	119.1 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)	MDH410-2HE-4L-R2W-PA-DRDM-UNV-1/840	1637 lm	13.7 W	119.6 lm/W	-20°C / 35°C	1-F32T8	*
4000 Lumens (Nominal)	MDH410-4HE-4L-R2W-PA-DRDM-UNV-1/840	2910 lm	22.1 W	131.4 lm/W	-20°C / 35°C	2-F32T8, 1-F54T5HO	*
6000 Lumens (Nominal)	MDH410-6HE-4L-R2W-PA-DRDM-UNV-1/840	4395 lm	35.1 W	125.1 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

LUTRON CONTROLS AND SENSORS**WLC(FCJS0)** - 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)

WLC(FCJSE) - 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)

WLC(VDO) - Lutron® Wireless Fixture Sensor

- Need Dexal driver
- One per fixture
- Turn light on/off based on motion
- 15 minutes time delay default
- Daylight sensor provide linear response to changes in light level.
- Up to 300 sq.ft major motion coverage and 150 sq.ft. minor motion coverage based on 9' mounting height.
- Work standalone or with Vive wireless control system
- Work with driver has integrated self-powered DALI link or Lutron EcoSystem driver (additional Lutron® digital link interface required)

WLC(VRF) - Lutron® Wireless Fixture Control

- Need Dexal driver
- One per fixture
- Wireless control module
- Work with Vive wireless control system
- Work with driver has integrated self-powered DALI link or Lutron EcoSystem driver (additional Lutron® digital link interface required)

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

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

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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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

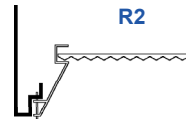
TYPE

- (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



R2 W

FINISHES

- W White Enamel
- B Black Enamel
- N Natural Anodized Aluminum

STYLES

- R2 2" Regressed Aluminum

GASKET

GSK N 1

GASKET

MATERIAL TYPE

- N Neoprene
- Leave Blank for Polyurethane

LOCATION

- 1 One-Way



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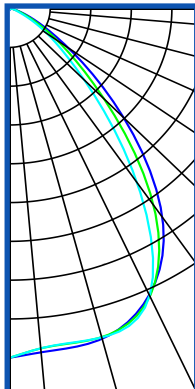
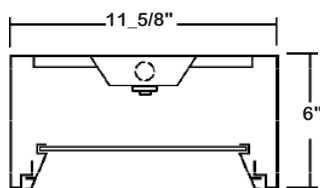
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PHOTOMETRIC DATA - MDH410 SERIES

MDH410-4-4L-R2W-PA-DRDM-UNV-1/840

TEST NO.=LA-T3474
 LED TYPE=48 LED MODULE
 NO. OF MODULE=2
 SYSTEM WATT (W)=32.0
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE=C



CANDLEPOWER

ANGLE	END	22.5	45	67.5	CROSS
0	1728	1728	1728	1728	1728
5	1782	1784	1776	1806	1804
10	1770	1765	1796	1790	1773
15	1766	1769	1769	1762	1767
20	1734	1719	1716	1735	1740
25	1631	1657	1660	1653	1643
30	1524	1517	1523	1473	1478
35	1320	1334	1268	1156	1088
40	1094	1065	944	797	732
45	809	773	657	542	508
50	552	513	440	370	348
55	354	336	286	244	225
60	217	206	176	139	123
65	129	121	102	80	72
70	70	69	56	43	43
75	39	38	30	28	27
80	17	18	18	20	21
85	7	8	9	9	10
90	1	1	1	1	1

ZONAL LUMEN SUMMARY

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1428	33	46
0-40	2188	51	70
0-60	2964	69	95
0-90	3116	73	100
90-120	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	3116	73	100

Luminaire Output = 3116.1 lumens
 Luminaire Efficacy = 97.4 lm/W
 Luminaire Efficiency = 72.7%

SPACING CRITERION

ALONG	ACROSS
1.26	1.20

