

LDRMH1

Applications

The ISON™ LDRMH is the first to market LED troffer retrofit with Britex™, Orion's proprietary white coating that includes antimicrobial properties. The coating can suppress the growth of microorganisms and limit the transmission of harmful microbes in healthcare applications. The industry's first patented LED troffer retrofit contained within the door frame that retrofits existing 2'x2' and 2'x4' fluorescent troffers to LED and can be installed in a few minutes with



LDRMH1A1UNVFDXX83522MST

Features

- Available with Britex™, Orion's proprietary coating that includes antimicrobial properties to suppress growth of bacteria, fungus, mold, and mildew on the fixture
- Patented LED troffer retrofit contained within the door frame that retrofits existing 2'x2' and 2'x4' fluorescent troffers to LED in minutes with minimal disruption to ceiling
- Integrated, intelligent control options that measure ambient temperature and brightness, distributing the ideal lighting specific to the needs of individual environments
- Modular light engine allows for color temperature and light output upgrades in the field
- Matte finish, acrylic contour lens diffuses glare in the work environment
- Unique mounting brackets allow the LDR® to fit nearly all existing troffers

Electrical

- Available in 120v-277v
- Full Dimming (0-10v) and Non Dimming fixtures are available

Ambient Operating Range

See ambient operating table on page 2

Fixture Certification & Listings

- Patented LDR® design
- UL Classified
- Buy American Act Compliant
- DesignLights Consortium™ Standard qualified luminaire
- Visit the [DLC QPL](#) for listed models

Rated Life

150,000 hours L70

Warranty

Orion ISON class LED fixtures are covered by a ten-year limited warranty. Accessories and individual components are covered by separate OEM supplier warranties



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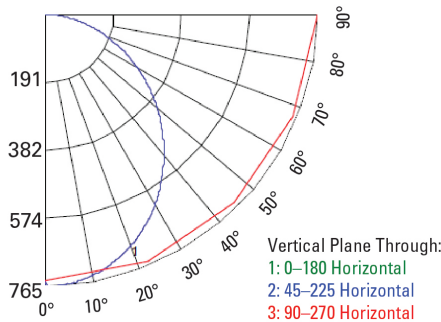
Performance Information³

Series	Nominal Lumen Code	Actual Lumens	Input Voltage	Wattage	LPW	CCT	CRI	Input Current	Power Factor
2' x 2'									
LDRMH1	A1	2,182lm	120v	21w	104	4000K	≥80	0.18A	>.90
LDRMH1	B1	3,617lm	120v	35w	103	4000K	≥80	0.29A	>.90
2' x 4'									
LDRMH1	D1	3,097lm	120v	29w	107	4000K	≥80	0.24A	>.90
LDRMH1	E1	4,157lm	120v	33w	126	4000K	≥80	0.28A	>.90
LDRMH1	F1	5,541lm	120v	47w	118	4000K	≥80	0.39A	>.90
LDRMH1	G1	7,744lm	120v	63w	123	4000K	≥80	0.53A	>.90

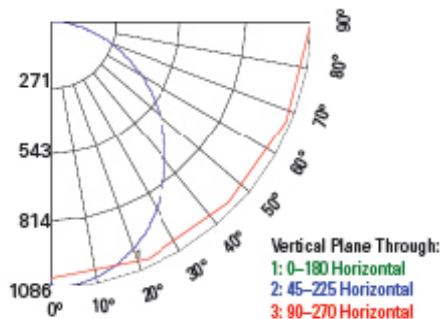
Photometrics

Visit orionlighting.com to obtain all .IES files

A1 835



D1 835



Ambient Operating Temperatures

Nominal Lumen Code	Standard Range
A1	0°C - 65°C [32°F - 149°F]
B1	0°C - 50°C [32°F - 122°F]
D1	0°C - 65°C [32°F - 149°F]
E1	0°C - 60°C [32°F - 140°F]
F1	0°C - 55°C [32°F - 131°F]
G1	0°C - 45°C [32°F - 113°F]

Physical Information⁴

Nominal Lumen Code	Length/Width	Depth	Weight
A1/B1	The Orion LDR is designed to fit industry standard 2' x 2' and 2' x 4' T-Bar grid openings	3.13"	6.00lbs.
D1/E1/F1/G1		3.13"	11.00lbs.

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Ordering Information Example (NOTE: No dashes or spaces unless noted below)

Series	Nominal Lumen Code	Voltage	Driver Type	CRI; Color Temp	Fixture Size	Lens Options	Bracket Type	Fixture Options
LDRMH1	A1	UNV	FDXX	835	22	M	ST	-BB

Ordering Information

Series	Nominal Lumen Code ¹	Voltage	Driver Type ²	CRI; Color Temp	Fixture Size	Lens Options	Bracket Type	Fixture Options
LDRMH1= ISON LED Retrofit Modular, Healthcare, Gen 1	<p>2x2</p> <p>A1= 2,000lm</p> <p>B1= 4,000lm</p> <p>2x4</p> <p>D1= 3,000lm</p> <p>E1= 4,000lm</p> <p>F1= 6,000lm⁵</p> <p>G1= 8,000lm⁵</p>	UNV= 120v-277v	<p>FD50= Step Dimming 50%^{6,7}</p> <p>FDXX= Full Dimming 0-10v⁸</p> <p>FDHB= LDE1 Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology^{7,9}</p> <p>FDH1= L3DA Hi-lume 1% EcoSystem LED driver^{5,7,9}</p> <p>FDH2= LTEA Hi-lume 1% 2-wire LED driver [120 V forward phase only]^{5,7,9}</p> <p>FDH3= L3DA Hi-lume 1% 3-wire LED driver^{5,7,9}</p> <p>FD55= LDE5 5-Series EcoSystem LED driver^{7,9}</p>	<p>835= 80CRI; 3500K</p> <p>840= 80CRI; 4000K</p> <p>850= 80CRI; 5000K</p>	<p>22= 2' x 2'</p> <p>24= 2' x 4'</p>	<p>M= Opaque Matte</p>	<p>ST= Standard</p> <p>PL= Plenum</p> <p>LF= Lift</p>	<p>(Blank)= No Option</p> <p>-BB= Battery Back Up</p> <p>-DD= Dial Dimmer⁷</p> <p>-EN= Enlighted Sensor⁷</p> <p>-BT= Bluetooth Sensor⁷</p> <p>-ZB= Zigbee Wireless Control System⁷</p> <p>-ME= Magnum EnOcean Control Systems⁷</p> <p>-P2= Philips EasySense SNS200⁷</p>

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Accessories (Field Installed)

Additional Fixture Accessories	
LDRM-SCBL-2FT-KIT	2' x 2' Fixture Seismic Cable
LDRM-SCBL-4FT-KIT	2' x 4' Fixture Seismic Cable

Accessories (Field Installed)



Seismic Cable Kit
(LDRM-SCBL-4FT-KIT)

Fixture Options (Factory Installed)



Battery Back-Up
(-BB)



Dial Dimmer
(-DD)



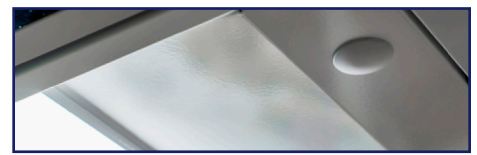
Integrated Enlighted Control
(-EN)



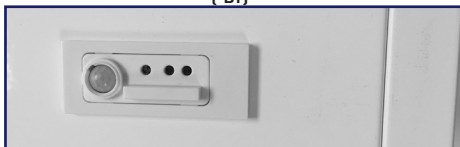
Integrated Bluetooth Control
(-BT)



Integrated Magnum Control
(-ME)



Integrated Zigbee Control
(-ZB)



Integrated EasySense Control
(-P2)

Additional Specification Information

¹ For actual lumens, see performance table

² "XX" is a character placeholder for the manufacturing configuration

³ Actual performance may vary by up to ±10% of values listed; facility factors and fixture options can affect performance values

⁴ Weight and depth will vary based on option selection. Does not include mounting brackets

⁵ F1 and G1 lumen packages options are not available with FDH1, FDH2 and FDH3 driver types

⁶ FD50 (step dimming) option requires two separate hot leads per fixture

⁷ FD50 (step dimming) or Lutron options are not available with -DD, -BT, -EN, -ZB, -P2, -ME listed under "fixture options" section in order information

⁸ FDXX 0-10v driver configurations are compatible with most third party control systems

⁹ Lutron® dimming drivers require a Lutron® control system