

## LDRM1

### Applications

The ISON™ LDRM1 is 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 minimal disruption to the workplace. Provides energy cost and maintenance savings over traditional fluorescent lighting for commercial, wholesale, and retail applications.



LDRM1A1UNVFDXX83522MST

### Features

- Future-proof, interchangeable design delivers the benefits of replaceable LED lamps or tubes without the performance and safety risks
- Patent pending modular light engine allows for light output upgrades in the field
- Integrated, intelligent control options that regulate control the brightness, distributing the ideal lighting per each room need
- Installs in a few minutes
- Matte finish, acrylic contour lens diffuses glare in the work environment
- Aluminum frame with powder coat white finish
- Multiple bracket options to fit specific application requirements

### Electrical

- Available in 120v-277v
- Full Dimming [0-10v] and Step Dimming available
- Lutron® dimming drivers require an existing Lutron® control system

### Ambient Operating Range

See ambient operating table on page 2

### Fixture Certification & Listings

- Patented LDR® design
- UL/cUL 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



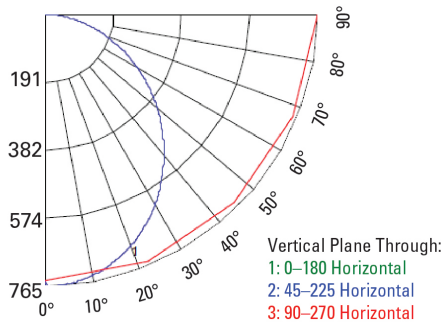
### Performance Information, 120v<sup>3</sup>

Series	Nominal Lumen Code	Actual Lumens	Wattage	LPW	CCT	CRI	Input Current	Power Factor
<b>2' x 2'</b>								
LDRM1	A1	2,182lm	21w	104	4000K	≥80	0.18A	>.90
LDRM1	B1	3,617lm	35w	103	4000K	≥80	0.29A	>.90
<b>2' x 4'</b>								
LDRM1	D1	3,097lm	29w	107	4000K	≥80	0.24A	>.90
LDRM1	E1	4,157lm	33w	126	4000K	≥80	0.28A	>.90
LDRM1	F1	5,541lm	47w	118	4000K	≥80	0.39A	>.90
LDRM1	G1	7,744lm	63w	123	4000K	≥80	0.53A	>.90

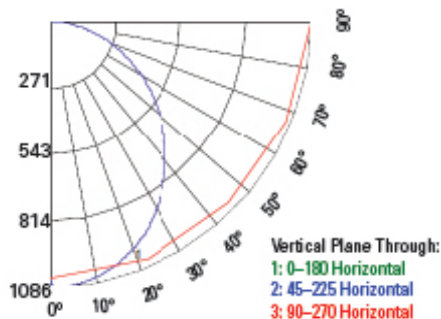
### Photometrics

Visit [orionlighting.com](http://orionlighting.com) to obtain all .IES files

#### A1 835



#### D1 835



### Ambient Operating Temperatures

Nominal Lumen Code	Standard Range
All Lumen Packages	0°C - 45°C [32°F - 113°F]

### Physical Information<sup>4</sup>

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.

### 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	Control Options	Packaging Options
LDRM1	A1	UNV	FDXX	835	22	M	ST	-BB	[Blank]	[Blank]

### Ordering Information

Series	Nominal Lumen Code <sup>1</sup>	Voltage	Driver Type <sup>2</sup>	CRI; Color Temp	Fixture Size	Lens Options	Bracket Type	Fixture Options	Control Options	Packaging Options
<b>LDRM1</b> = ISON LED Retrofit Modular, Gen 1	<b>2' x 2'</b> <b>A1</b> = 2,000lm <b>B1</b> = 4,000lm	<b>UNV</b> = 120v-277v	<b>FDXX</b> = Full Dimming 0-10v <sup>8</sup> <b>FD50</b> = Step Dimming 50% <sup>6,7</sup> <b>FDHB</b> = LDE1 Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology <sup>7,9</sup> <b>FDH1</b> = L3DA Hi-lume 1% EcoSystem LED driver <sup>5,7,9</sup> <b>FDH2</b> = LTEA Hi-lume 1% 2-wire LED driver (120 V forward phase only) <sup>5,7,9</sup> <b>FDH3</b> = L3DA Hi-lume 1% 3-wire LED driver <sup>5,7,9</sup> <b>FD55</b> = LDE5 5-Series EcoSystem LED driver <sup>7,9</sup>	<b>835</b> = 80CRI; 3500K <b>840</b> = 80CRI; 4000K <b>850</b> = 80CRI; 5000K	<b>22</b> = 2' x 2' <b>24</b> = 2' x 4'	<b>M</b> = Opaque Matte	<b>ST</b> = Standard <b>PL</b> = Plenum <b>LF</b> = Lift	<b>(Blank)</b> = No Option <b>-BB</b> = Battery Back Up <b>-DD</b> = Dial Dimmer <sup>7</sup>	<b>(Blank)</b> = No Option <b>-EN</b> = Enlighted Sensor <sup>7</sup> <b>-BT</b> = Bluetooth Sensor <sup>7</sup> <b>-ZB</b> = Zigbee Wireless Control System <sup>7</sup> <b>-ME</b> = Magnum EnOcean Control Systems <sup>7</sup> <b>-P2</b> = Philips EasySense SNS200 <sup>7</sup> <b>-L1</b> = Lutron Vive Integral Control (RF Only) <sup>7</sup> <b>-L2</b> = Lutron Vive Integral Sensor [RF Plus Sensor] <sup>7</sup>  Note: For more information on options above, select the hyperlinks	<b>(Blank)</b> = Bulk Packaging <b>-SP</b> = Single Pack
	<b>2' x 4'</b> <b>D1</b> = 3,000lm <b>E1</b> = 4,000lm <b>F1</b> = 6,000lm <sup>5</sup> <b>G1</b> = 8,000lm <sup>5</sup>									

### Accessories (Field Installed)

Additional Fixture Accessories	
<b>LDRM-SCBL-2FT-KIT</b>	2' x 2' Fixture Seismic Cable
<b>LDRM-SCBL-4FT-KIT</b>	2' x 4' Fixture Seismic Cable

### Accessories (Field Installed)



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

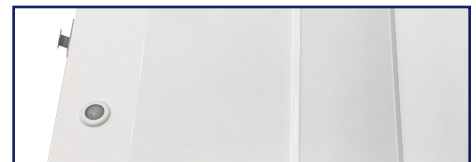
### Fixture Options (Factory Installed)



Battery Back Up  
(-BB)



Dial Dimmer  
(-DD)



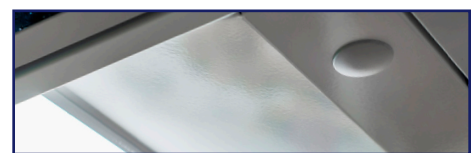
Integrated Enlighted Sensor  
(-EN)



Integrated Bluetooth Sensor  
(-BT)



Integrated Magnum Sensor  
(-ME)



Integrated Zigbee Control  
(-ZB)



Integrated EasySense Sensor  
(-P2)



Integrated Lutron Vive Control  
(-L1)



Integrated Lutron Vive Sensor  
(-L2)

### Additional Specification Information

<sup>1</sup> For actual lumens, see performance table

<sup>2</sup> "XX" is a character placeholder for the manufacturing configuration

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

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

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

<sup>6</sup> FD50 (step dimming) option requires two separate hot leads per fixture

<sup>7</sup> FD50 (step dimming) or Lutron driver options are not available with -EN, -ZB, -P2, -L1, -L2, -DD, -ME listed under "control options" section in order information

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

<sup>9</sup> Lutron® dimming drivers require a Lutron® control system installed prior to ordering fixtures with Lutron® dimming drivers