## 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

### Patent Information

Orion is serious about intellectual property. This product may be covered by one or more patents. Patent information available at http://www.orionlighting.com/about/patents/

### 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
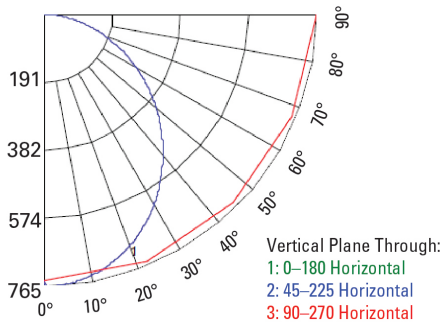
1

## LDRM1

## Performance Information, 120v[3]

| Series | Nominal Lumen Code | Actual Lumens | Wattage | LPW | CCT | CRI | Input Current | Power Factor |
|--------|-------------------|---------------|---------|-----|-----|-----|---------------|--------------|
| **2' x 2'** | | | | | | | | |
| LDRM1 | A1 | 2,182lm | 21w | 104 | 4000K | ≥80 | 0.18A | >.90 |
| LDRM1 | B1 | 3,617lm | 35w | 103 | 4000K | ≥80 | 0.29A | >.90 |
| **2' x 4'** | | | | | | | | |
| 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 to obtain all .IES files

### A1 835



Vertical Plane Through:
1: 0–180 Horizontal
2: 45–225 Horizontal
3: 90–270 Horizontal

### D1 835



Vertical Plane Through:
1: 0–180 Horizontal
2: 45–225 Horizontal
3: 90–270 Horizontal
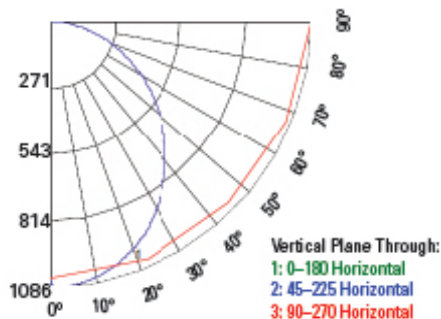
## Ambient Operating Temperatures

| Nominal Lumen Code | Standard Range |
|--------------------|----------------|
| All Lumen Packages | 0°C - 45°C (32°F - 113°F) |

## Physical Information[4]

| 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[1] | Voltage | Driver Type[2] | CRI; Color Temp | Fixture Size | Lens Options | Bracket Type | Fixture Options | Control Options | Packaging Options |
|--------|------------------------|---------|----------------|------------------|--------------|--------------|--------------|-----------------|------------------|-------------------|
| **LDRM1**= ISON LED Retrofit Modular, Gen 1 | **2' x 2'** **A1**= 2,000lm **B1**= 4,000lm **2' x 4'** **D1**= 3,000lm **E1**= 4,000lm **F1**= 6,000lm[5] **G1**= 8,000lm[5] | **UNV**= 120v-277v | **FDXX**= Full Dimming 0-10v[8] **FD50**= Step Dimming 50%[6,7] **FDHB**= LDE1 Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology[7,9] **FDH2**= LTEA Hi-lume 1% 2-wire LED driver (120 V forward phase only)[5,7,9] **FD55**= LDE5 5-Series EcoSystem LED driver[7,9] | **835**= 80CRI; 3500K **840**= 80CRI; 4000K **850**= 80CRI; 5000K | **22**= 2' x 2' **24**= 2' x 4' | **M**= Opaque Matte | **ST**= Standard **PL**= Plenum **LF**= Lift | **(Blank)**= No Option **-BB**= Battery Back Up **-DD**= Dial Dimmer[7] | **(Blank)**= No Option **-EN**= Enlighted Sensor[7] **-BT**= Bluetooth Sensor[7] **-ZB**= Zigbee Wireless Ready Control[7,10] **-EL**= Zigbee Wireless Encelium Network Ready Control[7,11] **-ME**= Magnum EnOcean Control Systems[7] **-P2**= Philips EasySense SNS200[7] **-L1**= Lutron Vive Integral Control (RF Only)[7] **-L2**= Lutron Vive Integral Sensor (RF Plus Sensor)[7] Note: For more information on options above, select the hyperlinks | **(Blank)**= Bulk Packaging **-SP**= Single Pack |

## 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)



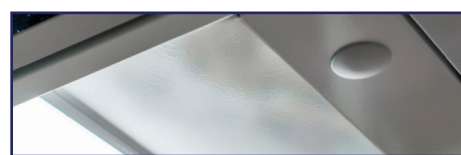**Battery Back Up
(-BB)**



**Dial Dimmer
(-DD)**



**Integrated  Enlighted 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

[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 driver options are not available with  **-EN, -ZB, -P2, -L1, -L2, -DD, -ME** listed under "control 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 installed prior to ordering fixtures with Lutron® dimming drivers

[10] Only compatible with non-ENCELIUM EXTEND/EDGE Light Management Systems

[11] Only compatible with ENCELIUM EXTEND Network Light Management System and ENCELIUM EDGE Wireless Light Management System

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