LDRM1

Applications
The ISON™ LDRM1 is the industry's first patented LED troffer retrofit contained within the door frame that retrofits existing 2' x 2' and 2' x 4' 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.

LDRM1A1UNVFD83522MST

Features

- Future-proof, interchangeable design delivers the benefits of replaceable LED lamps or tubes without the performance and safety risks
- 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

Patent Information

Orion is serious about intellectual property. This product may be covered by one or more 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

LDRM1

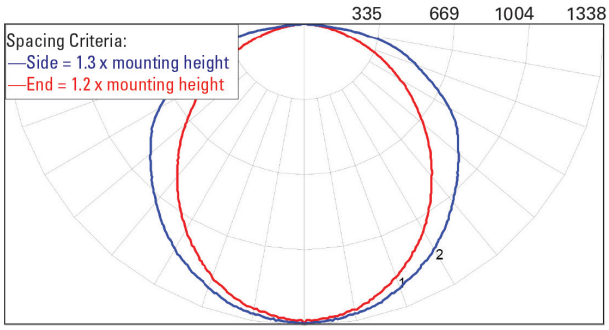
Performance Information, 120v, 4000K, ≥ 80 CRI[2]

Series	Nominal Lumen Code	Actual Lumens	Wattage	LPW
		2' x 2'		
LDRM1	A1	2,290lm	15w	154
LDRM1	B1	3,960lm	27w	146
		2' x 4'		
LDRM1	D1	3,294lm	21w	159
LDRM1	E1	4,131lm	27w	154
LDRM1	F1	6,130lm	40w	154
LDRM1	G1	8,262lm	52w	157

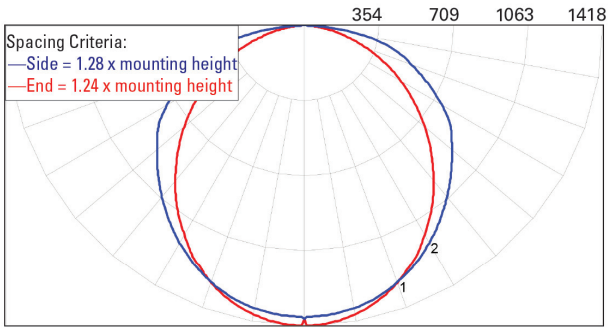
Photometrics

Visit orionlighting.com to obtain all .IES files

2' x 2' B1 840



D1 840



Ambient Operating Temperatures

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

Physical Information[3]

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.

LDRM1

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	FD	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[4] **G1**= 8,000lm[4]	**UNV**= 120v-277v	**FD**= Full Dimming[8] **FD50=** Step Dimming 50%[4,5,6] **FDHB**= LDE1 1% Dimming Ecosystem Driver[4] **FDH3**= L3DA Hi-lume 1% 3-wire or Ecosystem[4]	**835**= 80CRI; 3500K **840**= 80CRI; 4000K **850**= 80CRI; 5000K	**22**= 2' x 2' **24**= 2' x 4'	**M**= Opaque Matte	**ST**= Standard **AH**= Air Handling **LF**= Lift (for shallow fixtures)	**(Blank)**= No Option **-BB**= Battery Back Up[9] **DD**= Dial Dimmer[7]	**(Blank)**= No Option **VL**= Vealite Keilton: PIR Occupancy Sensor, Daylight Harvesting, High and Low End Trim, 0-10V Dimming, IR Remote Programmable[6] **VBM**= Keilton Bluetooth Mesh: Wireless Fixture Controller, PIR Occupancy Sensor, HIGH/LOW/OFF, 0-10v Dimming, Daylight Harvesting, High End Trim, Luminare Level Lighting Control, Wireless Zones, Time-of-Day Scheduling, Keilton Mobile App Programmable[6] **P3**= Philips EasySense SNS210: PIR Occupancy Sensor, Daylight Harvesting, High and Low End Trim, Luminaire Level Lighting Control, Wireless Zones, SR Dimming, ZigBee, Apple iOS and Android Bluetooth App Programmable[6] **L1**= Lutron Vive: Integral RF Control, Network Lighting Control Component, Wireless Zones, DALI SR Dimming[6, 8] **L2**= Lutron Vive: Integral PIR Occupancy Sensor, Daylight Harvesting, High and Low End Trim, Network Lighting Control Component, Wireless Zones, DALI SR Dimming[6, 8]	**(Blank)**= Bulk Packaging **-SP**= Single Pack

Accessories (Field Installed)

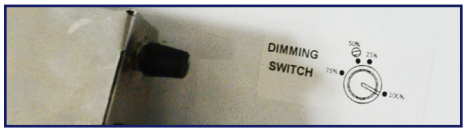
Additional Fixture Accessories	
LDRM-SCBL-2FT-KIT	2' x 2' Fixture Seismic Cable
LDRM-SCBL-4FT-KIT	2' x 4' Fixture Seismic Cable

Accessories (Field Installed)

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

Fixture Options (Factory Installed)

Battery Back Up
(BB10)

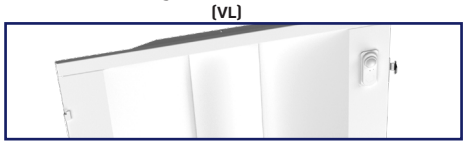


Dial Dimmer
(DD)

Integrated Vealite Sensor
(VL)

Integrated EasySense Sensor
(P3)

Integrated Lutron Vive Control
(L1)



Integrated Keilton Sensor
(VBM)

Additional Specification Information

[1] For actual lumens, see performance table

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

[3] Weight and depth will vary based on option selection. Does not include mounting brackets

[4] **F1** and **G1** lumen packages options are not available with FDH1, FDH2 and FDH3 driver types

[5] **FD50** (step dimming) option requires two separate hot leads per fixture

[6] **FD50** (step dimming) or Lutron driver options are not available with **P3, Lx, DD, VL, VBM** listed under "control options" and "fixture options" section in order information

[7] **FD** 0-10v driver configurations are compatible with most third party control systems

[8] Lutron® dimming drivers require a Lutron® control system installed prior to ordering fixtures with Lutron® dimming drivers

[9] Multiply 10 watts by the lumens per watt (LPW) of the fixture to calculate lumen output in emergency mode