

LDRE1

Applications

Industry's first patented LED troffer retrofit contained within the door frame that installs in as little as a few minutes and with minimal disruption to the workplace. Retrofits existing 1' x 4', 2' x 2' and 2' x 4' T8/T12 fluorescent troffers.



LDRE1D1UNVFDXX83524MST

Features

- Ultra-light, highly efficient troffer retrofit solution
- Installs in a few minutes
- Low environmental impact due to energy efficiency
- Multiple bracket options to fit various application requirements
- Title 24 compliant seismic cable kit option
- Lightweight, white painted aluminum body for better thermal dissipation
- LDR® fits most existing fluorescent troffer fixtures with either prismatic lens or parabolic louvers
- Matte finish, acrylic contour lens diffuses glare in the work environment

Electrical

- Available in 120v-277v
- Full Dimming (0-10v), Step Dimming, and Lutron drivers available

Rated Life

100,000 hours L70

Warranty

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

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

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/>



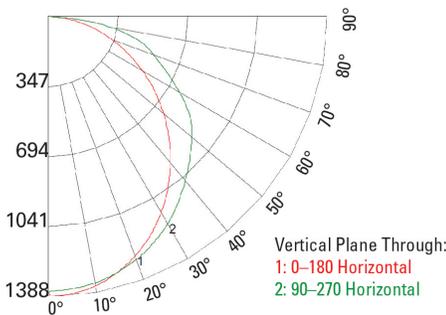
Performance Information, 120v³

Series	Nominal Lumen Code	Actual Lumens	Wattage	LPW	CCT	CRI	Input Current	Power Factor
1' x 4'								
LDRE1	A1	2,157lm	17w	128	4000K	≥80	0.14A	>.90
LDRE1	A2	3,111lm	25w	123	4000K	≥80	0.21A	>.90
LDRE1	B1	4,288lm	35w	123	4000K	≥80	0.29A	>.90
2' x 2'								
LDRE1	A1	2,331lm	22w	106	4000K	≥80	0.18A	>.90
LDRE1	A2	3,021lm	25w	123	4000K	≥80	0.21A	>.90
LDRE1	B1	4,145lm	38w	109	4000K	≥80	0.32A	>.90
2' x 4'								
LDRE1	D1	3,254lm	27w	121	4000K	≥80	0.23A	>.90
LDRE1	E1	4,297lm	35w	124	4000K	≥80	0.29A	>.90
LDRE1	F1	6,049lm	48w	126	4000K	≥80	0.40A	>.90
LDRE1	G1	7,891lm	64w	123	4000K	≥80	0.53A	>.90

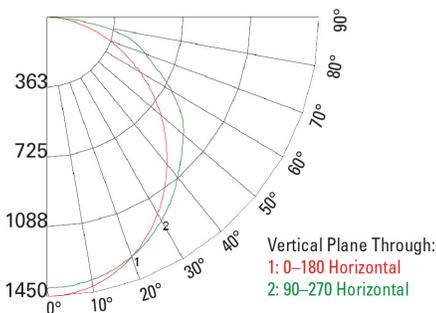
Photometrics

Visit orionlighting.com to obtain all .IES files

B1 840



E1 840



Ambient Operating Temperatures

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

Physical Information⁴

Length/Width	Depth	Fixture Size	Weight
The Orion LDR is designed to fit industry standard 1' x 4', 2' x 2', and 2' x 4' T-Bar grid openings	3.13"	22	6.00lbs.
	3.13"	24	11.00lbs.
	3.13"	14	4.00 lbs.

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
LDRE1	D1	UNV	FDXX	835	24	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
LDRE1= HARRIS LED Troffer Retrofit LDRE Gen 1	1' x 4' and 2' x 2'	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	14= 1' x 4' 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 Sensor ⁷ -P2= Philips EasySense SNS200 Sensor ⁷ -L1= Lutron Vive Integral Control (RF Only) ⁷ -L2= Lutron Vive Integral Sensor (RF Plus Sensor) ⁷	(Blank)= Bulk Pack -SP= Single Pack
	A1= 2,000lm A2= 3,000lm B1= 4,000lm 2' x 4' D1= 3,000lm E1= 4,000lm F1= 6,000lm ⁵ G1= 8,000lm ⁵									

Note:
For more information on options above, select the hyperlinks

Accessories (Field Installed)

Additional Fixture Accessories	
LDRE-SCBL-1FT-KIT	1' x 4' Fixture Seismic Cable
LDRE-SCBL-2FT-KIT	2' x 2' Fixture Seismic Cable
LDRE-SCBL-4FT-KIT	2' x 4' Fixture Seismic Cable

Accessories (Field Installed)

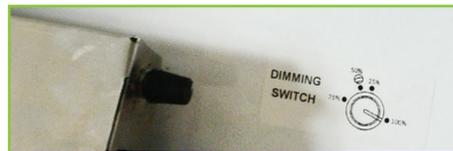


Seismic Cable Kit
(LDRE-SCBL-4FT-KIT)

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

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**, **-BT**, **-ME** listed under "control options" and "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 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