

## 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 2'x2' and 2'x4' T8/T12 fluorescent troffers.



### 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 options
- 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
- Integrated Intelligent control options

### Electrical

- Available in 120-277v
- Hardwired fixture
- Full Dimming (0-10v) and step dimming options are available
- Lutron® dimming drivers require an existing Lutron® control system

### Ambient Operating Range

-4°F to 122°F [-20°C to 50°C]

### Rated Life

100,000 hours per L70 TM-21 at 25°C

### Warranty

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

### Certification & Listings

- Patented LDR® design
- UL Classified for Damp locations
- DesignLights Consortium™ Premium qualified
- Visit [DLC QPL](#) for listed models

### Ordering Information Example

Series	Nominal Lumen Code	Voltage	Driver Type	CRI; Color Temp.	Fixture Size	Lens Material	Bracket Type	Additional Options
<b>LDRE1</b>	<b>D1</b>	<b>UNV</b>	<b>FDXX</b>	<b>835</b>	<b>24</b>	<b>M</b>	<b>ST</b>	<b>-BB</b>

### Ordering Information

Series	Nominal Lumen Code	Voltage	Driver Type	CRI; Color Temp.	Fixture Size	Lens Material	Bracket Type	Additional Options
<b>LDRE1=</b> LED Retrofit Edge Gen1	<b>2x2</b> <b>A1</b> = 2000lm <b>B1</b> = 4000lm	<b>UNV=</b> 120-277v	<b>FD50</b> = Step Dimming 50% <sup>5,6</sup> <b>FDXX</b> = Full Dimming 0-10v <sup>3,4</sup> <b>FDHB</b> = Lutron H-series dim to 1%, Fade to Black <sup>7</sup> <b>FDH1</b> = Lutron Hi-lume dim to 1% <sup>1,7</sup> <b>FDH2</b> = Lutron Hi-lume dim to 1% 2wire 120v <sup>1,7</sup> <b>FDH3</b> = Lutron Hi-lume dim to 1% 3wire 120-277v <sup>1,7</sup> <b>FD55</b> = Lutron 5-series dim to 5% <sup>7</sup>	<b>835</b> = 80CRI, 3500K <b>840</b> = 80CRI, 4000K <b>850</b> = 80CRI, 5000K	<b>22</b> = 2x2 <b>24</b> = 2x4	<b>M</b> = Opaque Matte	<b>ST</b> = Standard <b>PL</b> = Plenum <b>LF</b> = Lift	<b>-BB</b> = Battery Back Up <b>-DD</b> = Dial Dimmer <sup>5</sup> <b>-EN</b> = Enlighted Sensor <sup>5</sup> <b>-BT</b> = Bluetooth Sensor <sup>2,5</sup> <b>-ZB</b> = Zigbee Wireless Control System <sup>2,5</sup> <b>-ME</b> = Magnum EnOcean Control Systems <sup>5</sup>
	<b>2x4</b> <b>D1</b> = 3000lm <b>E1</b> = 4000lm <b>F1</b> = 6000lm <sup>1</sup> <b>G1</b> = 8000lm <sup>1,2</sup>							

### Fixture Option - Factory Installed



**-BB**= Battery Backup



**-DD**= Dial Dimmer



**-EN**= Enlighted wireless networked sensor



**-BT**= Bluetooth smart device sensor



**-ME**= Magnum EnOcean control system



**-ZB**= Zigbee wireless control system

### Performance Information<sup>8</sup>

Series	Lumen Code	Actual Lumens	Fixture Size	Lumens Per Watt	Light Output	CCT	CRI	Input Voltage	Input Power [watts]	Input Current	Power Factor
LDRE1= LED Retrofit Edge Gen1	A1*	2000lm	2x2	106	2331 lm	4000K	≥80	120	22	0.18 A	>0.99
	B1*	4000lm	2x2	109	4145 lm	4000K	≥80	120	38	0.32 A	>0.99
	D1	3000lm	2x4	121	3254 lm	4000K	≥80	120	27	0.23 A	>0.99
	E1	4000lm	2x4	123	4297 lm	4000K	≥80	120	35	0.29 A	>0.99
	F1	6000lm	2x4	126	6049 lm	4000K	≥80	120	48	0.40 A	>0.99
	G1	8000lm	2x4	123	7891 lm	4000K	≥80	120	64	0.53 A	>0.99
*A1 and B1 meet DLC standard. For more information, visit <a href="http://www.designlights.org">www.designlights.org</a> .											

### Physical Information

Size	Length	Width	Depth <sup>9</sup>	Weight <sup>9</sup>
2x4	46.75"	20.50"	3.125"	11 lbs
2x2	22.75"	20.50"	3.125"	6 lbs

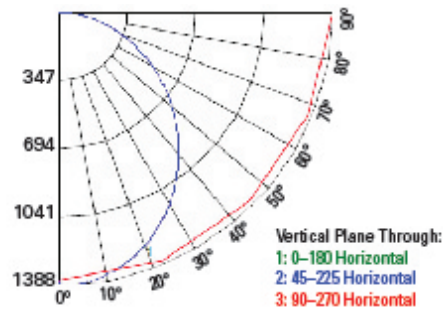
### Fixture Options – Seismic Cable, Field Installed



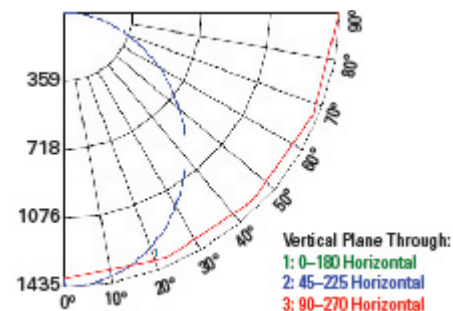
**LDRE-SCBL-2FT-KIT**= 2' x 2' fixture seismic cable  
**LDRE-SCBL-4FT-KIT**= 2' x 4' fixture seismic cable

### Photometrics

#### 2x2 B1 4K



#### 2x4 E1 4K



### Additional Specification Information

<sup>1</sup> **F1** and **G1** lumen packages options are not available with FDH1, FDH2 and FDH3 driver types

<sup>2</sup> **G1** is not available with -BT and -ZB listed under "control options" section in order information

<sup>3</sup> **FDXX** 0-10v driver configurations are compatible with most third party control systems

<sup>4</sup> "XX" in part number is a character placeholder for the manufacturing configuration

<sup>5</sup> **FD50** (step dimming) option is not available with -DD, -BT, -EN, -ZB, -ME listed under "additional options" section in order information

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

<sup>7</sup> Lutron® dimming drivers require an existing Lutron® control system

<sup>8</sup> Actual performance may vary by up to +10% of values listed

<sup>9</sup> Depth and weight varies by model; dependent on driver selection