

LSAR1

Applications

The ISON™ LSAR1 is ideal for retrofitting existing linear fluorescent high bay fixtures to LED. For use in applications such as retail, manufacturing, distribution, and warehouses facilities.



LSAR14A1UNVFDXXLFA840LT
[4' Module shown for a 4' Retrofit]



LSAR18D1UNVFDXXLFA840LTEN1
[8' Module shown with Sensor for a 8' Retrofit]

Features

- Available in 4 ft. and 8 ft. fixture lengths
- Frosted acrylic matte contoured lens available
- LED engine made of lightweight aluminum, with pre-coated white finish for better thermal dissipation
- Retrofit light engine is designed to fit over existing linear fluorescent high bay fixture channel and screws to existing channel for ease of retrofit install
- Bulk pack standard. Single pack available
- Enlighted Control Option available for IoT applications

Electrical

- Available in 120v-277v, 347v and 480v
- Factory wired for full dimming (0-10v)

Ambient Operating Range

See ambient operating table on page 2

Fixture Certification & Listings

- UL Classified
- Buy American Act Compliant
- DesignLights Consortium® premium 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

L70 >150,000 hours

For calculated L70 hours, please contact an Orion representative

Warranty

Orion LED ISON™ class fixtures are covered by a five-year limited warranty, ten-year limited warranty optional. Please contact Orion for additional details. Accessories and individual components are covered by separate OEM supplier warranties.

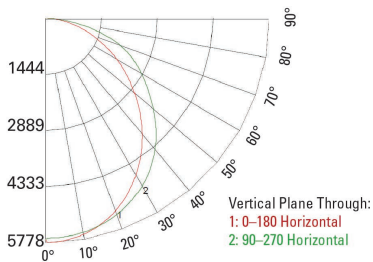


Performance Information, No Lens²

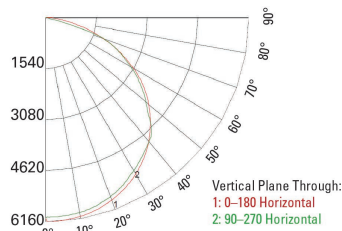
Series	Nominal Lumen Code	Actual Lumens	Input Voltage	Wattage	LPW	CCT	CRI	Input Current	Power Factor
4 ft.									
LSAR1	A1	9,105lm	120v	53w	171	4000K	≥80	0.45A	>.90
LSAR1	A1	9,105lm	277v	53w	173	4000K	≥80	0.19A	>.90
LSAR1	A1	9,160lm	347v	56w	163	4000K	≥80	0.16A	>.90
LSAR1	A1	9,160lm	480v	58w	158	4000K	≥80	0.12A	>.90
8 ft.									
LSAR1	D1	18,210lm	120v	107w	171	4000K	≥80	0.89A	>.90
LSAR1	D1	18,210lm	277v	106w	173	4000K	≥80	0.38A	>.90
LSAR1	D1	18,320lm	347v	113w	163	4000K	≥80	0.32A	>.90
LSAR1	D1	18,320lm	480v	116w	158	4000K	≥80	0.24A	>.90

Photometrics

D1 LFA 840



D1 NOL 840



Ambient Operating Temperatures⁴

Nominal Lumen Code	Standard Range
All Lumen Packages	-20°C to 45°C [-4°F to 113°F]

Physical Information

Length	Width	Depth	Weight ³
4 ft.	9.75"	4.00"	5.00lbs.
8 ft.	9.75"	4.00"	10.00lbs.

Fully Retrofitted Existing Fixture



4' Version



8' Version with Sensor

Ordering Information Example (NOTE: No dashes or spaces unless noted below)

Series	Fixture Size	Nominal Lumen Code	Voltage	Driver Type	Lens Options	CRI; Color Temp	Fixture Body Type	Control Options	Packaging Options
LSAR1	8	D1	UNV	FDXX	LFA	840	LT	EN1	(Blank)

Ordering Information

Series	Fixture Size	Nominal Lumen Code ¹	Voltage	Driver Type ⁵	Lens Options	CRI; Color Temp	Fixture Body Type	Control Options	Packaging Options
LSAR1 = ISON Linear LED Streamline Retrofit, Gen 1	4 = 4 ft. 8 = 8 ft.	4 ft. A1 = 9,000lm 8 ft. D1 = 18,000lm	UNV = 120v-277v 347 = 347v 480 = 480v	FDXX = Factory Wired for Dimming Applications	NOL = No Lens LFA = Lens, Frosted Acrylic	840 = 80CRI; 4000K	ET = Eaton T5 LT = Lithonia T5 LTT8 = Lithonia T8 AT = Austin T8	(Blank) = No Option EN1 = Enlighted One PIR Sensor, HIGH/LOW/OFF, Active Dimming And Daylighting, Wireless Grouping, See EN1 Accessories Table ^{4, 6*} EN2 = Enlighted Connected: All Features of EN1 - PLUS BLE Radio, Temperature Sensor, Scene Control, Demand Response, Data Collection, BMS Integration, Cloud Access ^{4*} EN3 = Enlighted IoT: All Features of EN2 - PLUS access to Apps: Space Management, Asset Tracking, and Contact Tracing Apps ^{4*}	(Blank) = Bulk Pack -SP = Single Pack

*Only available for 8' fixture models.

Fixture Options (Factory Installed)



Enlighted Sensor - 8' Models Only (ENx)

Accessories (Field Installed)

EN1 Accessories Required for Commissioning ⁴	
WS-2-00-IL	Enlighted Wall Switch Room Controller - For Use with EN1 Enlighted Sensor (Quantity Needed Varies by Facility Layout and Fixture Group Size) Note: Max. of 4 switches per zone/group
LP-1-00	Green Laser for Commissioning EN1 Enlighted Sensor
Note: Contact your Orion representative regarding additional commissioning, quantities and back end control system pricing	

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 Width/Weight will vary based on option selection

⁴ **ENx** is limited to 0°C (32°F) environments. Contact Customer Service regarding additional commissioning and back end control system pricing

⁵ "XX" is a placeholder for manufacturing configuration

⁶ **EN1** allows for 75 fixtures max. per group. Contact Customer Service regarding commissioning