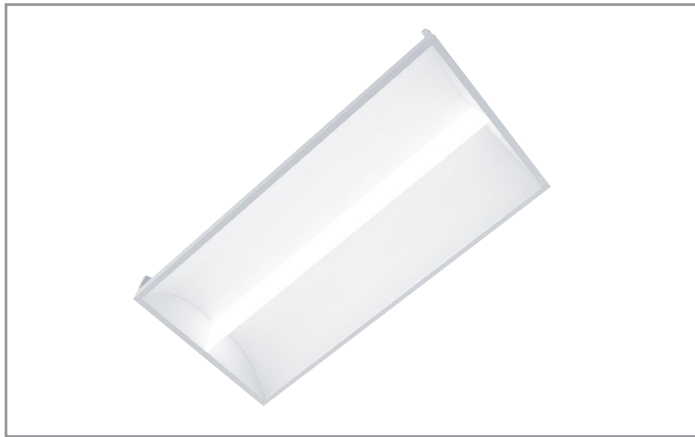


Project		Catalog #		Type	
Prepared by		Notes		Date	



## Metalux

### SkyRidge 12SR LED

#### 1' x 2' Specification Grade Troffer LED Module

##### Typical Applications

- Commercial Office Spaces • Schools • Hospitals • Retail
- Other Indoor Ambient Applications

#### Interactive Menu

- Order Information page 2
- Photometric Data page 3
- Control Solutions page 5
- Connected Systems page 5
- Product Warranty

#### Product Certification



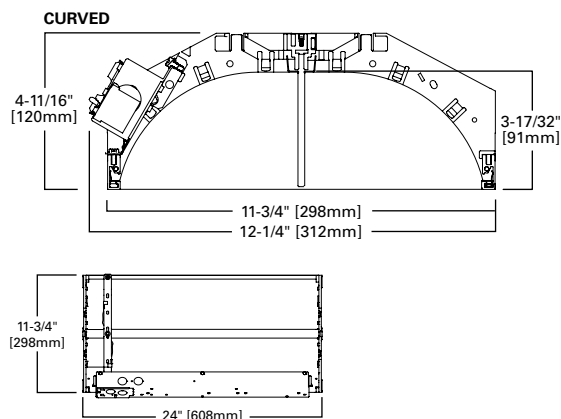
#### Product Features



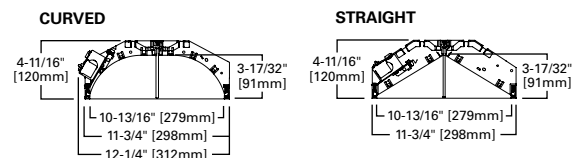
#### Top Product Features

- Available in 1' x 2', 1' x 4', 2' x 2' and 2' x 4' recessed versions
- Leverages our patented WaveStream Technology with AccuAim™ optics
- Advanced optical control with optimal illumination
- High performance efficacy up to 146 lumens per watt
- Over 60% energy savings when compared to a fluorescent troffers
- Options to meet Buy American and other domestic preference requirements

#### Dimensional and Mounting Details



#### Lamp Configurations



#### Ceiling Compatibility

G	F	Ceiling Type	Trim Type
Grid/Lay-in Standard	Drywall Frame Kit	Exposed Grid	G
		Concealed T	G or T
		Slot Grid	G or T
		Flange	*

\*See Drywall Frame Kit Accessory in Ordering Information section.

\*\*Fixture construction is suitable for use in Air-handling and plenum rated spaces in accordance with Section 300.22 (C) of the National Electrical Code, Section 4.3.11.2.6.5 of NFPA 90A and Section 602.2.1.4 of ICC.

## Order Information

SAMPLE ORDER NUMBER: **12SR-LD2-25-C-UNV-L835-CD1-U**

Domestic Preferences	Rating	Series	Type	Lamp Type	MTO Lumen Outputs	Reflector	Optics	Voltage
Domestic Preferences <sup>(1)</sup>	Rating	Series	Type	Lamp Type	MTO Lumen Outputs	Reflector	Optics	Voltage <sup>(3)</sup>
<b>[Blank]</b> =Standard <b>BAA</b> =Buy American Act <b>TAA</b> =Trade Agreements Act	<b>[Blank]</b> =Standard <b>ATW-SW4</b> = Chicago Rated <sup>(2)</sup>	<b>12SR</b> =1' x 2' SkyRidge Series	<b>[Blank]</b> =Standard	<b>LD2</b> =LED 2.0	<b>9</b> =900 Lumens <b>12</b> =1200 Lumens <b>16</b> =1600 Lumens <b>20</b> =2000 Lumens	<b>C</b> =Curved (Standard) <b>S</b> =Straight	<b>[Blank]</b> =Standard	<b>347V</b> =347 Volt <b>UNV</b> =Universal Voltage 120-277V <b>48V</b> =48 Volt Low-voltage (Class 2) <sup>(4)</sup> <b>120V</b> =120 Volt <sup>(4)</sup> <b>277V</b> =277 Volt <sup>(4)</sup>
<b>Notes</b> (1) Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <a href="#">DOMESTIC PREFERENCES</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	<b>Notes</b> (2) Chicago rated version does not allow for row mounting.							<b>Notes</b> (3) Products also available in non-US voltages and frequencies for international markets. (4) Must specify voltage as 120V or 277V when ordering GTR2 option. (C) Consult WaveLinX Low-Voltage or DLVP system pages for additional details and compatibility.

Emergency Options	CCT	Flex	Driver Type	Number of Drivers
Emergency Options	CCT	Flex	Driver Type	Number of Drivers
<b>EL7W</b> =7-watt, 120V-277V emergency battery pack installed <sup>(5)</sup> <b>EL14W</b> =14-watt 120V-277V emergency battery pack installed <sup>(5)</sup> <b>ELV7W</b> =Low-voltage system, 7-watt emergency battery pack <sup>(6)</sup> <b>ELV14W</b> = Low-voltage system, 14-watt emergency battery pack <sup>(6)</sup> <b>GTR2</b> =Bodine Generator Transfer Relay <sup>(6), (7)</sup> <b>ETRD</b> =Iota Emergency Transfer Relay with dimming control <sup>(6)</sup>	<b>L830</b> =80CRI, 3000K <b>L835</b> =80CRI, 3500K <b>L840</b> =80CRI, 4000K <b>L850</b> =80CRI, 5000K	<b>A3/8-4/18GDIM</b> =3/8" Flex with 0-10V Dimming Leads. Multiple other configurations available. See below for details. <b>A3/8-5/18GDIM</b> =Flex with 0-10V Dimming leads and Blue for alternate wiring. See below for details.	<b>CD</b> =0-10V Driver (1%-100% Dimming) <b>SLTD</b> =DALI Driver (5%-100% Dimming) <b>SLTHD</b> =DALI Driver (1%-100% Dimming) <b>LV</b> =Low-voltage System Driver (0%-100% Dimming) <sup>(C)</sup> <b>SD</b> =Step Dimming Driver (50%-100% Dimming) <b>LH</b> =Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming <sup>(F)</sup> <b>SR</b> =Sensor-ready Driver (1%-100% Dimming)	<b>1=1 Driver</b>
<b>Notes</b> (5) With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. (6) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 option includes 2 relays on fixtures with dimming drivers. ETRD option only requires one relay when used on a dimming fixture. (7) Must specify voltage as 120V or 277V when ordering GTR2 option. (C) Consult WaveLinX Low-Voltage or DLVP system pages for additional details and compatibility.		<b>Flexible Metal Conduit Options</b> Flex options available for 0-10V dimming control, DALI dimming control, emergency and night light functions. 72-inch factory-installed and pre-wired to driver, fitted to luminaire housing access plate with 90° enclosed FMC connector. Not all options may be combined and installation ratings vary by type. <b>A3/8-4/18GDIM series notes:</b> Factory installed dimming option 3/8" flexible metal conduit with 2-#18 power and ground wires and 2-#18 UL-listed jacketed 0-10V +/- control wires. Meets UL 66, 63, 1479, 1569, 1581, 2556. NEC® 250.118, 300.22(C), 392, 396, 330, 501, 502, 503, 530, 504, 505, 518, 520, 530, 645, 72; Federal Specification A-A-59544 (formerly J-C-30B); all applicable OSHA and HUD Requirements. UL Classified 1-, 2-, and 3-hour through penetration with applicable fire stop product (not included). May be surface mounted, fished and/or embedded in plaster. Cable tray and approved raceway rated, install per NEC®; Environmental Air-Handling Space Installation per NEC® 300.22(C).	<b>Notes</b> Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (C) Consult WaveLinX Low-Voltage or DLVP system pages for additional details and compatibility. (F) Consult Marketplace Options - Lutron system pages for additional details and compatibility. Compatible only with driver series shown, and may require two or more drivers. Requires field commissioning to operate or dim. Contact Lutron at <a href="#">www.lutron.com</a>	

Integrated Sensing Systems	SkyTrim	Packaging	Accessories
Integrated Sensing Systems	SkyTrim	Packaging	Accessories (order separately) <sup>(11)</sup>
<b>[Blank]</b> =No Sensor <b>WAA</b> =WaveLinX Wireless Integrated Sensor <sup>(8), (A)</sup> <b>WAB</b> =WaveLinX Lite Wireless Integrated Sensor <sup>(9), (B)</sup> <b>WLA</b> =Low-voltage Integrated Sensor <sup>(10), (C)</sup> <b>SVPD1</b> =0-10V Stand-alone Integrated Sensor <sup>(9), (D)</sup>	<b>TB</b> =Tahitian Blue <b>PG</b> =Primary Green <b>SO</b> =Storaro Orange <b>PL</b> =Pearl <b>BR</b> =Belladonna Rose <b>MR</b> =Medium Red <b>ST</b> =Straw	<b>U</b> =Unit Pack <b>PALC</b> =Job Pack, in carton	<b>T3A END E.Q. BRACKET PARTS BAG</b> (Standard with fixture) <b>DF-12W-U</b> =1' x 2' Drywall Frame Kit <b>ISHH-01</b> =Programming Remote for Integrated Sensor <sup>(D)</sup> <b>ISHH-02</b> =Personal Control Remote for Integrated Sensor <sup>(D)</sup>
<b>Notes</b> (8) WAA sensor to be used with CD or W2A driver. (9) WAB and SVPD1 sensor to be used with CD driver. (10) WLA sensor to be used with LV driver. Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (A) Consult WaveLinX system pages for additional details and compatibility. (B) WaveLinX Lite devices are not currently compatible with the WaveLinX Wireless Area Controller. Consult WaveLinX Lite system pages for additional details and compatibility. (C) Consult WaveLinX Low-Voltage or DLVP system pages for additional details and compatibility. (D) Consult SVPD series system pages for additional details and compatibility.			<b>Notes</b> (11) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (D) For use with SVPD sensor only. Consult SVPD series system pages for additional details and compatibility.

## Product Specifications

### Construction

- Shallow 4.69" deep housing extruded aluminum frame
- Injected molded composite end plates
- End plates screws for strength, rigidity and gap eliminations
- End plates accessory grid-lock feature adds safety and convenience
- Four auxiliary fixture end suspension points
- Large access plate for supply connection

### Controls

- 0-10V dimming to 1% standard
- WaveLinX wireless sensor compatible for standalone, controlled, connected, and IoT capability
- SVPD sensor compatible for standalone functionality
- Low-voltage sensor and driver compatible for WaveLinX Low-Voltage and DLVP applications
- DALI 2.0, Lutron, and step-dimming available

### Electrical

- LED's available in 3000K, 3500K, 4000K or 5000K with a minimum CRI of 80
- Color accuracy  $\leq 3$ -Step MacAdam ellipse (SDCM)
- Projected life is 100,000 hours at 92% lumen output
- Electronic drivers available for 120-277V applications

### Emergency Battery Pack Option

- Optional 120V-277V integral emergency battery pack available in 7W
- 90-minute backup period for code compliance
- Test switch with laser pointer allows safe testing from floor
- Patented EZ Key prevents accidental discharge during construction
- Emergency/generated transfer option available (see ordering information for details)

### Driver Access

- Drivers can be accessed via plenum

### Finish

- High reflectance baked matte white enamel finish for luminous uniformity

### Optics

- Precision formed optical assembly
- Positively retained high optical grade acrylic lenses
- WaveStream LED technology provides a distribution

### SkyTrim Accessory

- A luminous decorative accent that can be mounted directly on the light guide of a SkyRidge fixture either at the factory or in the field
- Designed for an array of interior applications
- Ideal for spaces where color is necessary to provide visual cues, emphasize brand identity, directional awareness or simply as an artistic expression

### Compliance

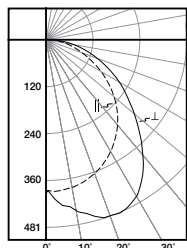
- Components are UL recognized
- cULus listed for 25° C ambient indoor environments
- RoHS compliant
- Complies with IESNA LM-79
- LEDs compliant with LM-80 standards

### Warranty

- Five year warranty standard. Optional ten year warranty available.

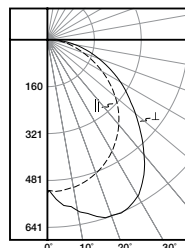
## Photometric Data

[View IES files](#)



### 12SR-LD2-12-CUNV-L835-CD1-U

Electronic Driver  
 Linear LED 3500K  
 Spacing criterion: (II) 1.25 x mounting height,  
 (I) 1.56 x mounting height  
 Lumens: 1318  
 Input Watts: 9.9W  
 Efficacy: 133.1 lm/W  
 Test Report: 12SR-LD2-12-CUNV-L835-CD1-U.IES



### 12SR-LD2-16-CUNV-L835-CD1-U

Electronic Driver  
 Linear LED 3500K  
 Spacing criterion: (II) 1.25 x mounting height,  
 (I) 1.56 x mounting height  
 Lumens: 1759  
 Input Watts: 13W  
 Efficacy: 135.3 lm/W  
 Test Report: 12SR-LD2-16-CUNV-L835-CD1-U.IES

## Energy and Performance Data by Catalog Number

Stock or MTO	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (lm/W)
MTO	12SR-LD2-9-C-UNV-L830-CD1-U	944	9.1	104
MTO	12SR-LD2-9-C-UNV-L835-CD1-U	973	9.1	107
MTO	12SR-LD2-9-C-UNV-L840-CD1-U	993	9.1	109
MTO	12SR-LD2-9-C-UNV-L850-CD1-U	1080	9.1	119
MTO	12SR-LD2-12-C-UNV-L830-CD1-U	1278	9.9	129
MTO	12SR-LD2-12-C-UNV-L835-CD1-U	1318	9.9	133
MTO	12SR-LD2-12-C-UNV-L840-CD1-U	1344	9.9	136
MTO	12SR-LD2-12-C-UNV-L850-CD1-U	1463	9.9	148
MTO	12SR-LD2-16-C-UNV-L830-CD1-U	1706	13.0	131
MTO	12SR-LD2-16-C-UNV-L835-CD1-U	1759	13.0	135
MTO	12SR-LD2-16-C-UNV-L840-CD1-U	1794	13.0	138
MTO	12SR-LD2-16-C-UNV-L850-CD1-U	1952	13.0	150
MTO	12SR-LD2-20-C-UNV-L830-CD1-U	2120	16.3	130
MTO	12SR-LD2-20-C-UNV-L835-CD1-U	2185	16.3	134
MTO	12SR-LD2-20-C-UNV-L840-CD1-U	2229	16.3	137
MTO	12SR-LD2-20-C-UNV-L850-CD1-U	2426	16.3	149

Stock or MTO	Catalog Logic (Straight)	Delivered Lumens	Watts	Efficacy (lm/W)
MTO	12SR-LD2-9-S-UNV-L830-CD1-U	893	9.1	98
MTO	12SR-LD2-9-S-UNV-L835-CD1-U	920	9.1	101
MTO	12SR-LD2-9-S-UNV-L840-CD1-U	939	9.1	103
MTO	12SR-LD2-9-S-UNV-L850-CD1-U	1022	9.1	112
MTO	12SR-LD2-12-S-UNV-L830-CD1-U	1209	9.9	122
MTO	12SR-LD2-12-S-UNV-L835-CD1-U	1245	9.9	126
MTO	12SR-LD2-12-S-UNV-L840-CD1-U	1271	9.9	128
MTO	12SR-LD2-12-S-UNV-L850-CD1-U	1383	9.9	140
MTO	12SR-LD2-16-S-UNV-L830-CD1-U	1613	13.0	124
MTO	12SR-LD2-16-S-UNV-L835-CD1-U	1662	13.0	128
MTO	12SR-LD2-16-S-UNV-L840-CD1-U	1696	13.0	130
MTO	12SR-LD2-16-S-UNV-L850-CD1-U	1846	13.0	142
MTO	12SR-LD2-20-S-UNV-L830-CD1-U	2003	16.3	123
MTO	12SR-LD2-20-S-UNV-L835-CD1-U	2065	16.3	127
MTO	12SR-LD2-20-S-UNV-L840-CD1-U	2106	16.3	129
MTO	12SR-LD2-20-S-UNV-L850-CD1-U	2293	16.3	141

## SkyTrim Field Installation Kits

Color Choice	Kit Catalog Number	Kit Quantity
Tahitian Blue	STK-2-TB-10PK	10
Primary Green	STK-2-PG-10PK	10
Storaro Orange	STK-2-SO-10PK	10
Belladonna Rose	STK-2-BR-10PK	10
Medium Red	STK-2-MR-10PK	10
Pearl	STK-2-PL-10PK	10
Straw	STK-2-ST-10PK	10

**Note:** Chosen color will be matched on acrylic but will appear lighter once applied to lit light guide.

## Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (100,000 hours) <sup>(1)</sup>	Theoretical L70 (Hours) <sup>(2)</sup>
25°C	> 92%	> 130,000

**Notes:** (1) Supported by IES TM-21 standards. (2) Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

## Shipping Data

Catalog No.	Wt.
12SR-LD2-12	8 lbs.

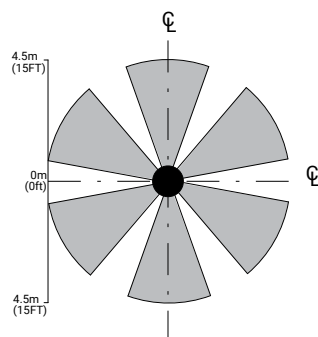
## Control Systems

- WaveLinX Wireless
- WaveLinX Wired
- WaveLinX Lite
- DLVP
- VividTune

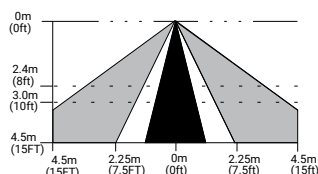


Connected Systems  
[CLICK HERE](#)

TOP VIEW:



SIDE VIEW:



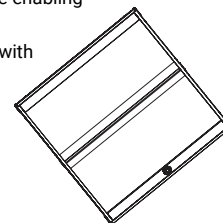
**Note:** Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended. The pattern shown is intended solely as a general guide and is not to scale.

The SkyRidge with Integrated Sensor technology provides automatic energy savings without sacrificing performance. The SkyRidge delivers superior lighting with integrated occupancy and daylighting controls.

For standalone and controlled applications, the WaveLinX Lite integral sensor provides out-of-the-box functionality with no gateways required and factory startup is not needed.

When more connectivity is required, the WaveLinX Wireless sensor meets modern code and utility requirements, delivers energy and cost savings, while enabling buildings to become smart buildings.

The WaveLinX Wireless Connected Lighting System combined with Trellix provides an open IoT platform and infrastructure that connects intelligent sensors leveraging the real-estate of the physical light fixture to solve higher complexity problems to deliver actionable insights through the aggregation of valuable data.



## Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.



Standalone



Controlled  
WaveLinX Lite



Connected  
WaveLinX Pro



Enterprise  
Trellix

	Standalone	Controlled WaveLinX Lite	Connected WaveLinX Pro	Enterprise Trellix
Occupancy	Yes	Yes	Yes	Yes
Daylighting	Yes	Yes	Yes	Yes
Wallstations	–	Yes	Yes	Yes
Gateways	–	–	1 WAC	300 WACs
Devices (MAX)	–	50 per Area (1400 per site)	200 per WAC2	32,500 per Core Enterprise
Software	–	WaveLinX Lite Mobile App	WaveLinX Pro Mobile App	Trellix Core
Areas	–	28 per Site	50 per WAC2	up to 3,000
Zones	–	16 per Area	16 per Area	up to 9,000
Scheduling	–	–	Local	Global
VividTune™	–	–	Yes	Yes
Plug-Load Control	–	–	Yes	Yes
Low-Voltage Power	–	–	Yes	Yes
Integration	–	–	–	BACnet, API
Dashboards	–	–	–	Energy, Occupancy
Configuration	–	Installer	Technician	Technician / IT

## SCALABILITY

devices

areas

floors

buildings