

Project		Catalog #		Type	
Prepared by		Notes		Date	



# Metalux

## SkyRidge 22SR LED

2' x 2' Specification Grade Troffer LED Module

### Typical Applications

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

### Interactive Menu

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### Product Certification



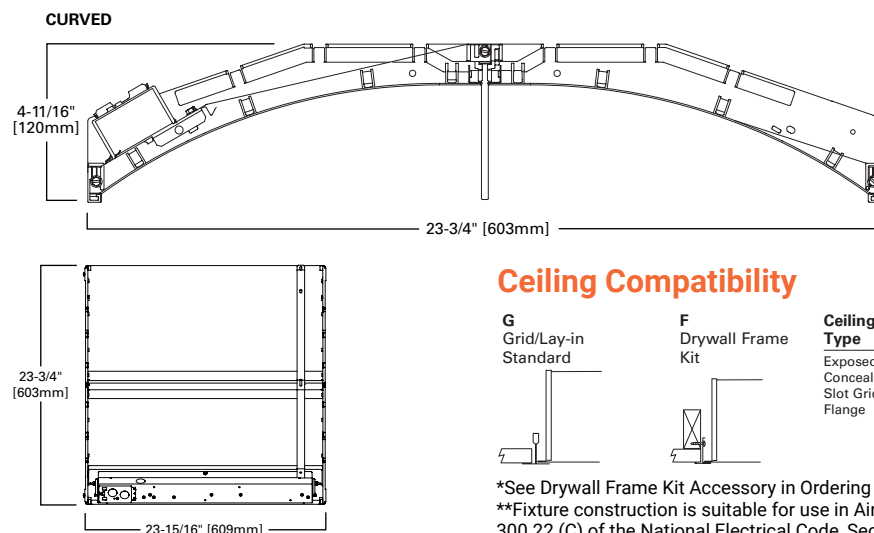
### Product Features



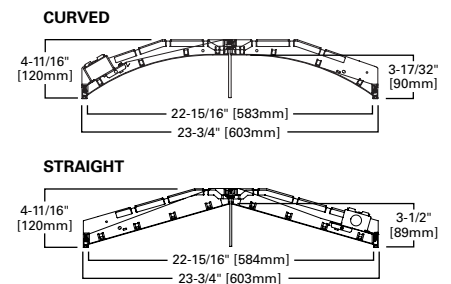
### Top Product Features

- 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

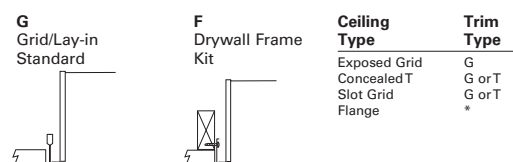
### Dimensional and Mounting Details



### Lamp Configurations



### Ceiling Compatibility



\*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: **22SR-LD2-29-C-UNV-L835-CD1-SVPD1-U**

Rating	Series	Air	Lamp Type	Lumen Outputs	Reflector	Optics	Voltage
[Blank]=Standard ATW-SW4= Chicago Rated <sup>(3)</sup>	22SR=2' x 2' SkyRidge Series	[Blank]=Standard A=Air (Vented) <sup>(4)</sup>	LD2=LED 2.0	<b>Stock Lumen Outputs</b> 20=2000 Lumens <sup>(8)</sup> 29=2900 Lumens <sup>(8)</sup> <b>MTO Lumen Outputs</b> 25=2500 Lumens <sup>(8)</sup>	C=Curved (Standard) S=Straight	[Blank]=Standard	<b>347V</b> =347 Volt <b>UNV</b> =Universal Voltage 120-277V <b>48V</b> =48 Volt Low-voltage (Class 2) <sup>(9)</sup>
<b>Notes</b> (3) Chicago rated version does not allow for row mounting.	<b>Notes</b> (5) DesignLights Consortium® Qualified and classified for DLC Standard, refer to www.designlights.org for details.	<b>Notes</b> (4) Air version is vented but does not meet air handling requirements. Air version is non-IC. Air version is not available with integrated sensor.		<b>Notes</b> (8) Not compatible with WN driver.			<b>Notes</b> (1) Products also available in non-US voltages and frequencies for international markets. (C) Consult DLVP system pages for additional details and compatibility.

Emergency Options	CCT	Flex	Driver Type	Number of Drivers
<b>EL7W</b> =7-watt, 120V-277V emergency battery pack installed <sup>(2)</sup> <b>EL14W</b> =14-watt 120V-277V emergency battery pack installed <sup>(2)</sup> <b>ELV7W</b> =7-watt, DLVP-compatible low voltage emergency battery pack installed <sup>(2)</sup> <b>ELV14W</b> =14-watt DLVP-compatible low voltage emergency battery pack installed <sup>(2)</sup> <b>GTR2</b> =Bodine Generator Transfer Relay <sup>(7)</sup> <b>ETRD</b> =Iota Emergency Transfer Relay with dimming control <sup>(7)</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>CD</b> =0-10V Dimming Driver (1%-100% Dimming) <b>SR</b> =Sensor-ready Dimming Driver for LWIPD1 option (1%-100% Dimming) <sup>(8)</sup> <b>SLTD</b> =Fifth Light DALI Driver (5%-100% Dimming) <sup>(E)</sup> <b>SLTHD</b> =Fifth Light Dimming Driver (1%-100% Dimming) <sup>(E)</sup> <b>LV1</b> =DLVP Dimming 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>L5</b> =Lutron 5 Series (LDE5-Series) 5%-100% EcoSystem Driver <sup>(F)</sup> <b>WN</b> =WaveLinX Wireless Fixture, No Sensor <sup>(A), (G), (H)</sup>	1=1 Driver
<b>Notes</b> (2) 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. (7) 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. Must specify voltage as 120V or 277V when ordering these devices. (C) Consult 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, 83, 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: (A) Consult WaveLinX system pages for additional details and compatibility. (B) Consult LumaWatt Pro system pages for additional details and compatibility. (C) Consult DLVP system pages for additional details and compatibility. (E) Consult Fifth Light 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 www.lutron.com. (G) Not compatible with emergency or integrated sensor options. (H) Available with UNV voltage only.	

Integrated Sensing Systems	SkyTrim	Packaging	Accessories
<b>SWPD1</b> =WaveLinX Wireless Integrated Sensor <sup>(A)</sup> <b>LWIPD1</b> =LumaWatt Pro Wireless Integrated Sensor <sup>(B)</sup> <b>LWTPD1</b> =LumaWatt Pro Wireless Tile-mount Sensor <sup>(B)</sup> <b>SLVPD1</b> =DLVP Low-voltage Integrated Sensor <sup>(C)</sup> <b>SVPD1</b> =0-10V Stand-alone Integrated Sensor <sup>(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-22-W</b> =2' x 2' Drywall Frame Kit <b>SK-22-WT</b> =2' x 2' Tall Surface Mount Kit <b>DF10P-C</b> =Decorator Dimmer, 0-10V <b>SF10P-</b> =Decorator Slide Dimmer, 0-10V <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> 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) Consult LumaWatt Pro system pages for additional details and compatibility. (C) Consult DLVP system pages for additional details and compatibility. (D) Consult SVPD series system pages for additional details and compatibility.	<b>Notes</b> (6) Fixtures using factory installed SkyTrim option are not DLC qualified.		<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: (D) Consult SVPD series system pages for additional details and compatibility.

## Product Specifications

### Construction

- Shallow 4.75" 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 drivers to 1% standard
- WaveLinX sensor compatible for IoT capability option
- WaveLinX wireless fixture for sensor-less wireless control option
- LumaWatt Pro sensor compatible for IoT capability
- SVPD sensor compatible for out-of-the-box functionality
- DLVP sensor and driver compatible for low-voltage applications
- Fifth Light DALI driver, step-dimming and 3rd party drivers available

### Electrical

- Long-life LED system with electrical driver for optimal performance
- LED's available in 3000K, 3500K, 4000K or 5000K with a minimum CRI of 80
- 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

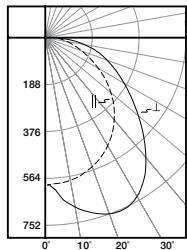
- Components are UL recognized
- cULus listed for 25° C ambient indoor environments
- RoHS compliant
- Complies with IESNA LM-79
- LEDs compliant with LM-80 standards
- DesignLights Consortium® Qualified and classified for DLC Standard (refer to www.designlights.org)

### Warranty

- Five-year warranty

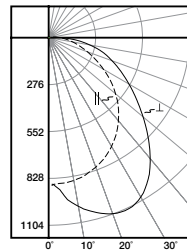
## Photometric Data

[View IES files](#)



### 22SR-LD2-20-CUNV-L835-CD1-U

Electronic Driver  
 Linear LED 3500K  
 Spacing criterion: (||) 1.22 x mounting height,  
 (⊥) 1.6 x mounting height  
 Lumens: 2107  
 Input Watts: 15.4W  
 Efficacy: 136.8 lm/W  
 Test Report: 22SR-LD2-20-CUNV-L835-CD1-U.IES



### 22SR-LD2-29-CUNV-L835-CD1-U

Electronic Driver  
 Linear LED 3500K  
 Spacing criterion: (||) 1.22 x mounting height,  
 (⊥) 1.6 x mounting height  
 Lumens: 3095  
 Input Watts: 23.4W  
 Efficacy: 132.3 lm/W  
 Test Report: 22SR-LD2-29-CUNV-L835-CD1-U.IES

## Energy and Performance Data by Catalog Number

Stock or MTO	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (LPW)
MTO	22SR-LD2-20-C-UNV-L830-CD1-U	2044	15.4	133
Stock	22SR-LD2-20-C-UNV-L835-CD1-U	2107	15.4	137
Stock	22SR-LD2-20-C-UNV-L840-CD1-U	2149	15.4	140
MTO	22SR-LD2-20-C-UNV-L850-CD1-U	2339	15.4	152
MTO	22SR-LD2-25-C-UNV-L830-CD1-U	2571	19.6	131
MTO	22SR-LD2-25-C-UNV-L835-CD1-U	2651	19.6	135
MTO	22SR-LD2-25-C-UNV-L840-CD1-U	2705	19.6	138
MTO	22SR-LD2-25-C-UNV-L850-CD1-U	2943	19.6	150
MTO	22SR-LD2-29-C-UNV-L830-CD1-U	3003	23.4	128
Stock	22SR-LD2-29-C-UNV-L835-CD1-U	3095	23.4	132
Stock	22SR-LD2-29-C-UNV-L840-CD1-U	3157	23.4	135
MTO	22SR-LD2-29-C-UNV-L850-CD1-U	3436	23.4	147

Stock or MTO	Catalog Logic (Straight)	Delivered Lumens	Watts	Efficacy (LPW)
MTO	22SR-LD2-20-S-UNV-L830-CD1-U	2081	15.4	135
MTO	22SR-LD2-20-S-UNV-L835-CD1-U	2145	15.4	139
MTO	22SR-LD2-20-S-UNV-L840-CD1-U	2188	15.4	142
MTO	22SR-LD2-20-S-UNV-L850-CD1-U	2381	15.4	155
MTO	22SR-LD2-25-S-UNV-L830-CD1-U	2619	19.6	134
MTO	22SR-LD2-25-S-UNV-L835-CD1-U	2700	19.6	138
MTO	22SR-LD2-25-S-UNV-L840-CD1-U	2753	19.6	140
MTO	22SR-LD2-25-S-UNV-L850-CD1-U	2996	19.6	153
MTO	22SR-LD2-29-S-UNV-L830-CD1-U	3057	23.4	131
MTO	22SR-LD2-29-S-UNV-L835-CD1-U	3151	23.4	135
MTO	22SR-LD2-29-S-UNV-L840-CD1-U	3214	23.4	137
MTO	22SR-LD2-29-S-UNV-L850-CD1-U	3498	23.4	149

### Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (100,000 hours)	Theoretical L70 (Hours)
25°C	> 92%	> 448,000

### Shipping Data

Catalog No.	Wt.
22SR-LD2-20	12 lbs.
22SR-LD2-29	12 lbs.

### SkyTrim Field Installation Kits

Color Choice	Kit Catalog Number	Kit Quantity
Tahitian Blue	STK-4-TB-10PK	10
Primary Green	STK-4-PG-10PK	10
Storaro Orange	STK-4-SO-10PK	10
Belladonna Rose	STK-4-BR-10PK	10
Medium Red	STK-4-MR-10PK	10
Pearl	STK-4-PL-10PK	10
Straw	STK-4-ST-10PK	10

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

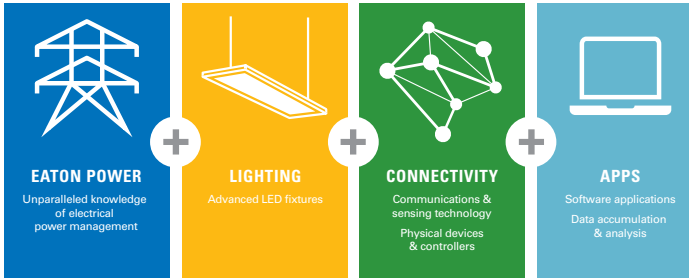
## Control Systems

- WaveLinx
- DLVP
- LumaWatt Pro
- iLumin Plus
- VividTune



Connected Systems  
[CLICK HERE](#)

## We make connections work



## Systems comparison chart

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

	Distributed Low-Voltage Power System	WaveLinx	LumaWatt Pro
Space type	Interior	Interior/Outdoor	Any
Stand-alone or Network	Stand-alone	Both	Network

### Need-based feature progression

Basic compliance only			
Occupancy sensing	•	•	•
Daylight harvesting	•	•	•
Zone control	•	•	•
Scheduling	•	•	•
0-10V dimming	•	•	•
Individual fixture control	•	•	•
Retrofit+Building Integration	•	•	•
Total wireless connectivity	•	•	•
A/V integration	•	•	•
BMS integration	•	•	•
UI options (touchscreen, apps, etc.)	•	•	•
Enterprise level building integration	•	•	•
Facility management & tools	•	•	•
Floor plan & reporting tools	•	•	•
Value-added services	•	•	•
Asset tracking	•	•	•
API integration	•	•	•
Analytics/higher problem solving	•	•	•

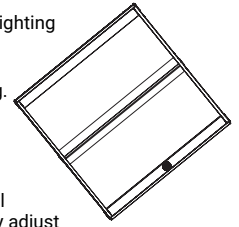
## Integrated Sensor

The SkyRidge with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The SkyRidge delivers superior lighting with integrated occupancy and daylighting controls.

Capture the benefits of traditional lighting controls, without complicated coverage planning or special wiring. Ideal for new construction or retrofit, the SkyRidge delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

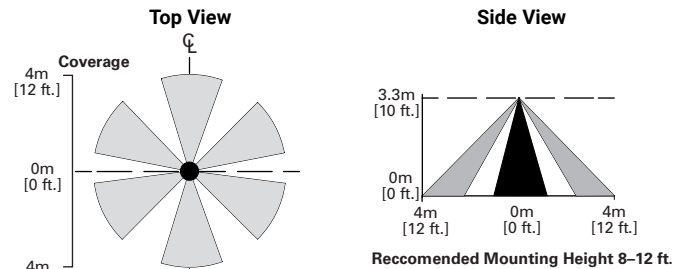
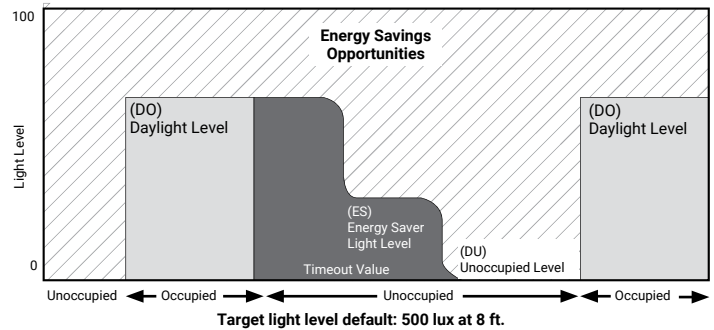
The integral daylight sensor reduces the need for special daylight zone planning. Each luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method. Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

The SkyRidge with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.



### How it works:

- As the user enters the space controlled by the integral sensor, the lighting turns ON to the default daylight level.
- Lighting will remain at that the daylight level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level. This adjustable light level is typically half of the occupied daylight level.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.



Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended.

### Optional Remote Controls



ISHH-01 Programming Remote



ISHH-02 Personal Control Remote