

Project		Catalog #		Type	
Prepared by		Notes		Date	



Metalux

SkyRidge 14SR LED

1' x 4' 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 6
- Connected Systems page 6
- Product Warranty

Product Certification



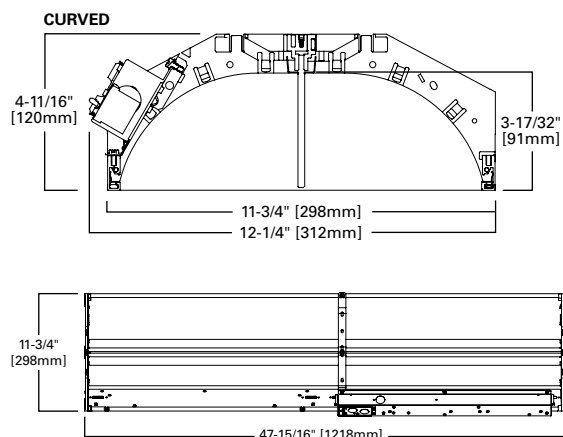
Product Features



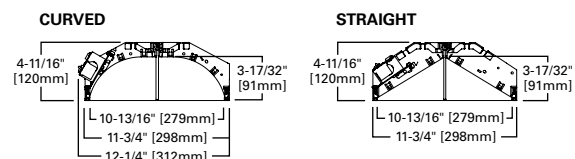
Top Product Features

- 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: **14SR-LD2-25-C-UNV-L835-CD1-U**

Domestic Preferences	Rating	Series	Air	Lamp Type	MTO Lumen Outputs	Reflector	Optics	Voltage
Domestic Preferences ⁽¹⁾	Rating	Series ⁽³⁾	Air	Lamp Type	MTO Lumen Outputs	Reflector	Optics	Voltage ⁽⁷⁾
[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act	[Blank]=Standard ATW-SW4=Chicago Rated ⁽²⁾	14SR=1' x 4' SkyRidge Series	[Blank]=Standard	LD2=LED 2.0	20=2000 Lumens 25=2500 Lumens 30=3000 Lumens 35=3500 Lumens 41=4100 Lumens ^{(4), (5)} 45=4500 Lumens ⁽⁵⁾	C=Curved (Standard) S=Straight	[Blank]=Standard	347V=347 Volt UNV=Universal Voltage 120-277V 48V=48 Volt Low-voltage (Class 2) ⁽⁶⁾ 120V=120 Volt ⁽⁶⁾ 277V=277 Volt ⁽⁶⁾
Notes (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 DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes (2) Chicago rated version does not allow for row mounting.	Notes (3) DesignLights Consortium® Qualified and classified for DLC Standard, refer to www.designlights.org for details.			Notes (4) Step-dim driver is only available with 4100 and 4500 lumen packages (5) Fifth Light (SLTD) driver is only available with 4100 and 4500 lumen packages.			Notes (7) Products also available in non-US voltages and frequencies for international markets. (8) 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
EL7W=7-watt, 120V-277V emergency battery pack installed ⁽⁹⁾ EL14W=14-watt 120V-277V emergency battery pack installed ⁽⁹⁾ ELV7W=Low-voltage system, 7-watt emergency battery pack ⁽⁹⁾ ELV14W=Low-voltage system, 14-watt emergency battery pack ⁽⁹⁾ GTR2=Bodine Generator Transfer Relay ^{(10), (11)} ETRD=Iota Emergency Transfer Relay with dimming control ⁽¹⁰⁾	L830=80CRI, 3000K L835=80CRI, 3500K L840=80CRI, 4000K L850=80CRI, 5000K	A3/8-4/18GDIM=3/8" Flex with 0-10V Dimming Leads Multiple other configurations available. See below for details. A3/8-5/18GDIM=Flex with 0-10V Dimming leads and Blue for alternate wiring. See below for details.	CD=0-10V Driver (1%-100% Dimming) SLTD=DALI Driver (5%-100% Dimming) ⁽¹³⁾ SLTHD=DALI Driver (1%-100% Dimming) LV=Low-voltage System Driver (0%-100% Dimming) ^(C) SD=Step Dimming Driver (50%-100% Dimming) ⁽¹²⁾ LH=Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming ⁽⁷⁾ SR=Sensor-ready Driver (1%-100% Dimming)	1=1 Driver
Notes (9) 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. (10) 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. (11) 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.		Flexible Metal Conduit Options Flex options available for 0-10V dimming control, emergency and night light functions. 72-inch factory-installed and pre-wired to luminaire housing access plate with 90° enclosed FMC connector. Not all options may be combined and installation ratings vary by type. A3/8-4/18GDIM series notes: 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).	Notes (12) Step-dim (SD) driver is only available with 4100 and 4500 lumen packages. (13) DALI (SLTD) driver is only available with 4100 and 4500 lumen packages. 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 www.lutron.com	

Integrated Sensing Systems	SkyTrim	Packaging	Accessories
Integrated Sensing Systems	SkyTrim ⁽¹⁷⁾	Packaging	Accessories (order separately) ⁽¹⁸⁾
[Blank]=No Sensor WAA=WaveLinX PRO Wireless Integrated Sensor ^{(14), (A)} WPN=WaveLinX PRO Wireless Node without Sensor ^{(14), (A)} WAB=WaveLinX LITE Wireless Integrated Sensor ^{(15), (B)} WLA=Low-voltage Integrated Sensor ^{(16), (C)}	TB=Tahtian Blue PG=Primary Green SO=Storaro Orange PL=Pearl BR=Belladonna Rose MR=Medium Red ST=Straw	U=Unit Pack PALC=Job Pack, in carton	T3A END E.Q. BRACKET PARTS BAG (Standard with fixture) DF-14W-U=1' x 4' Drywall Frame Kit
Notes (14) WAA sensor and WPN node to be used with CD or W2A driver. Consult factory for WPN with tunable white W2A driver. (15) WAB sensor to be used with CD driver. (16) 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 PRO 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.	Notes (17) Fixtures using factory installed SkyTrim option are not DLC qualified.		Notes (18) 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.

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
- 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 ≤ 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

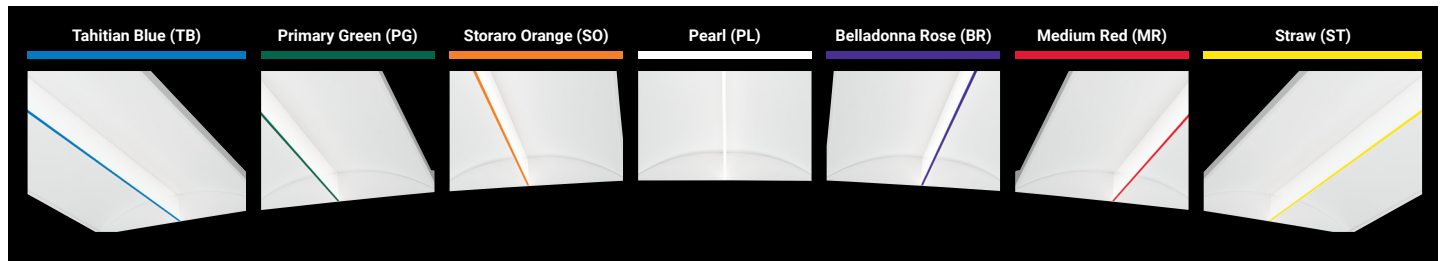
Compliance

- 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
- DesignLights Consortium® Qualified and classified for DLC Standard (refer to www.designlights.org)

Warranty

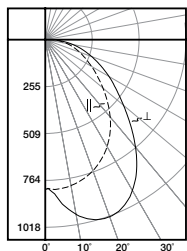
- Five year warranty standard. Optional ten year warranty available.

SkyTrim Options



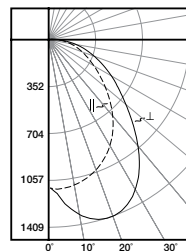
Photometric Data

[View IES files](#)



14SR-LD2-25-C-UNV-L835-CD1-U

Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height,
(\perp) 1.51 x mounting height
Lumens: 2636
Input Watts: 20.9W
Efficacy: 126.1 lm/W
Test Report: 14SR-LD2-25-C-UNV-L835-CD1-U.IES



14SR-LD2-35-C-UNV-L835-CD1-U

Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height,
(\perp) 1.51 x mounting height
Lumens: 3647
Input Watts: 28.4W
Efficacy: 128.4 lm/W
Test Report: 14SR-LD2-35-C-UNV-L835-CD1-U.IES

Energy and Performance Data by Catalog Number

Stock or MTO	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (lm/W)
MTO	14SR-LD2-20-C-UNV-L830-CD1-U	2107	16.4	128
MTO	14SR-LD2-20-C-UNV-L835-CD1-U	2172	16.4	132
MTO	14SR-LD2-20-C-UNV-L840-CD1-U	2216	16.4	135
MTO	14SR-LD2-20-C-UNV-L850-CD1-U	2412	16.4	147
MTO	14SR-LD2-25-C-UNV-L830-CD1-U	2557	20.9	122
MTO	14SR-LD2-25-C-UNV-L835-CD1-U	2636	20.9	126
MTO	14SR-LD2-25-C-UNV-L840-CD1-U	2688	20.9	129
MTO	14SR-LD2-25-C-UNV-L850-CD1-U	2925	20.9	140
MTO	14SR-LD2-30-C-UNV-L830-CD1-U	3102	24.5	127
MTO	14SR-LD2-30-C-UNV-L835-CD1-U	3197	24.5	131
MTO	14SR-LD2-30-C-UNV-L840-CD1-U	3261	24.5	133
MTO	14SR-LD2-30-C-UNV-L850-CD1-U	3549	24.5	145
MTO	14SR-LD2-35-C-UNV-L830-CD1-U	3537	28.4	125
MTO	14SR-LD2-35-C-UNV-L835-CD1-U	3647	28.4	128
MTO	14SR-LD2-35-C-UNV-L840-CD1-U	3719	28.4	131
MTO	14SR-LD2-35-C-UNV-L850-CD1-U	4048	28.4	143
MTO	14SR-LD2-41-C-UNV-L830-CD1-U	4155	34.0	122
MTO	14SR-LD2-41-C-UNV-L835-CD1-U	4283	34.0	126
MTO	14SR-LD2-41-C-UNV-L840-CD1-U	4369	34.0	129
MTO	14SR-LD2-41-C-UNV-L850-CD1-U	4754	34.0	140
MTO	14SR-LD2-45-C-UNV-L830-CD1-U	4557	37.9	120
MTO	14SR-LD2-45-C-UNV-L835-CD1-U	4698	37.9	124
MTO	14SR-LD2-45-C-UNV-L840-CD1-U	4791	37.9	126
MTO	14SR-LD2-45-C-UNV-L850-CD1-U	5214	37.9	138

Energy and Performance Data by Catalog Number

Stock or MTO	Catalog Logic (Straight)	Delivered Lumens	Watts	Efficacy (lm/W)
MTO	14SR-LD2-20-S-UNV-L830-CD1-U	2101	16.4	128
MTO	14SR-LD2-20-S-UNV-L835-CD1-U	2166	16.4	132
MTO	14SR-LD2-20-S-UNV-L840-CD1-U	2209	16.4	135
MTO	14SR-LD2-20-S-UNV-L850-CD1-U	2405	16.4	147
MTO	14SR-LD2-25-S-UNV-L830-CD1-U	2548	20.9	122
MTO	14SR-LD2-25-S-UNV-L835-CD1-U	2627	20.9	126
MTO	14SR-LD2-25-S-UNV-L840-CD1-U	2680	20.9	128
MTO	14SR-LD2-25-S-UNV-L850-CD1-U	2917	20.9	140
MTO	14SR-LD2-30-S-UNV-L830-CD1-U	3092	24.5	126
MTO	14SR-LD2-30-S-UNV-L835-CD1-U	3188	24.5	130
MTO	14SR-LD2-30-S-UNV-L840-CD1-U	3251	24.5	133
MTO	14SR-LD2-30-S-UNV-L850-CD1-U	3539	24.5	144
MTO	14SR-LD2-35-S-UNV-L830-CD1-U	3527	28.4	124
MTO	14SR-LD2-35-S-UNV-L835-CD1-U	3635	28.4	128
MTO	14SR-LD2-35-S-UNV-L840-CD1-U	3709	28.4	131
MTO	14SR-LD2-35-S-UNV-L850-CD1-U	4035	28.4	142
MTO	14SR-LD2-41-S-UNV-L830-CD1-U	4142	34.0	122
MTO	14SR-LD2-41-S-UNV-L835-CD1-U	4270	34.0	126
MTO	14SR-LD2-41-S-UNV-L840-CD1-U	4355	34.0	128
MTO	14SR-LD2-41-S-UNV-L850-CD1-U	4740	34.0	139
MTO	14SR-LD2-45-S-UNV-L830-CD1-U	4543	37.9	120
MTO	14SR-LD2-45-S-UNV-L835-CD1-U	4683	37.9	124
MTO	14SR-LD2-45-S-UNV-L840-CD1-U	4778	37.9	126
MTO	14SR-LD2-45-S-UNV-L850-CD1-U	5199	37.9	137

Shielding

Lumen Adjustment Factors						
TB	PG	SO	PL	BR	MR	ST
0.683	0.572	0.684	0.935	0.575	0.565	0.885

Note: Average values shown. Refer to IES-format photometry for exact performance data.

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (100,000 hours) ⁽¹⁾	Theoretical L70 (Hours) ⁽²⁾
25°C	> 92%	> 448,000

Non-IC data

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.
14SR-LD2-12	18 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 PRO Wireless
- WaveLinx LITE Wireless
- WaveLinx Wired

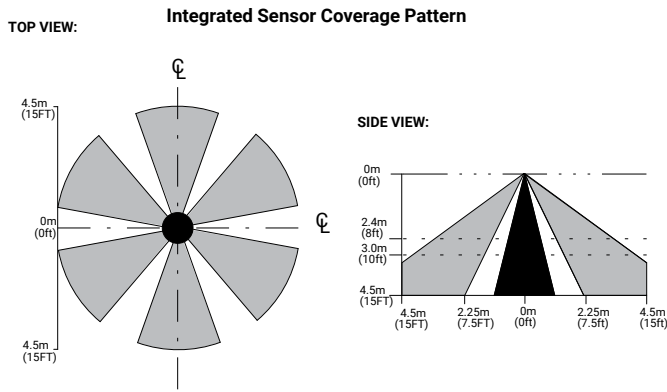
The SkyRidge with WaveLinx offers no-hassle lighting control with multiple luminaire level control solutions.

WaveLinx PRO is used for applications where spaces need to be connected to a lighting or building management system and to help building owners improve their operations, building environment, and tenants' experience by leveraging the data generated by the sensors. The WaveLinx PRO devices communicate with each other via the WaveLinx Area Controller which coordinates the data traffic between the devices, lighting apps and CORE platform. The WaveLinx Area Controller also hosts the time clock required if spaces need to be turned on/off at a specific time.

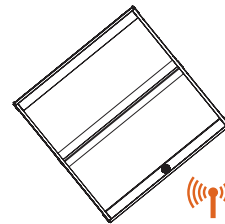
The WaveLinx PRO Sensor offers built-in occupancy and daylighting controls as well as luminaire level control including white tuning while the WaveLinx PRO Node offers luminaire level control and white tuning. If opting for the WaveLinx PRO Node option, a PRO Ceiling Sensor will most likely be needed within the space to control the lights based on occupancy and daylight levels.

WaveLinx LITE is used for single spaces where there is no need to manage the spaces remotely or exchange the sensor data with other sub-systems within the building or smart applications.

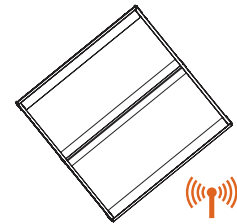
The WaveLinx LITE Sensor offers built-in occupancy and daylighting controls as well as luminaire level control.



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.



With Integrated WaveLinx Sensor



With Integrated WaveLinx Node

Systems comparison chart

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

