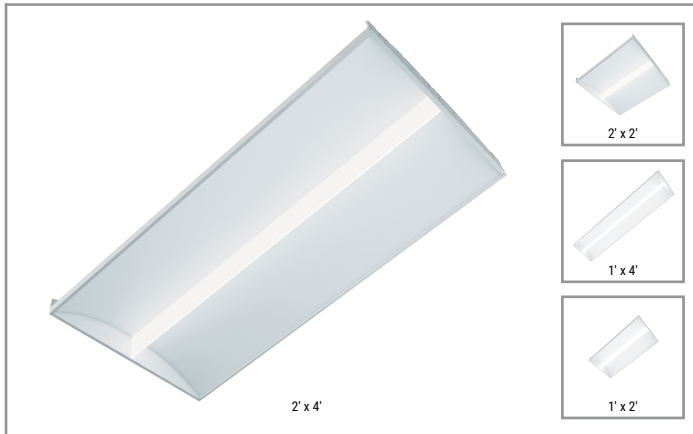


Project		Catalog #		Type	
Prepared by		Notes		Date	



Metalux

SkyRidge LED

1x2 / 1x4 / 2x2 / 2x4 LED 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 4
- Control Solutions page 10
- Product Warranty

Product Certification

Notes: (1) 2' x 2' and 2' x 4' only.



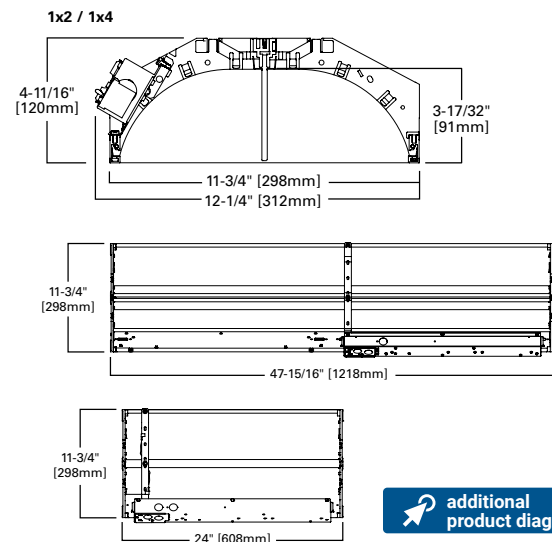
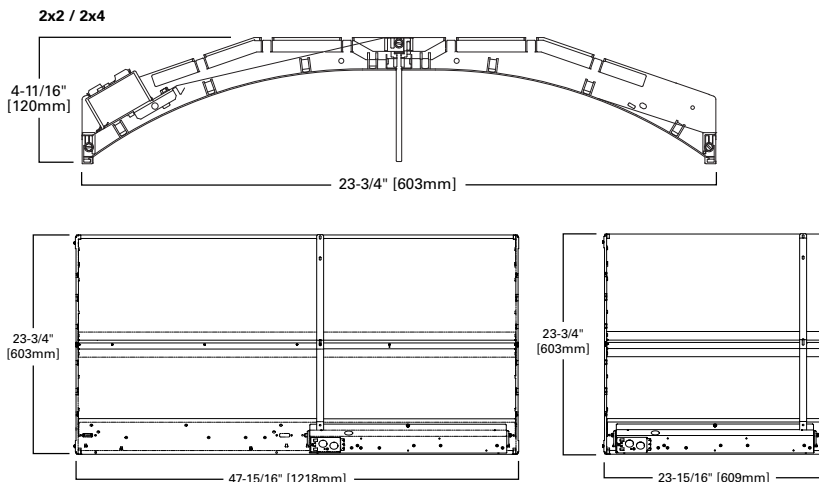
Product Features



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 143 lumens per watt
- Over 60% energy savings when compared to a fluorescent troffers
- Four CCT options: 3000K, 3500K, 4000K and 5000K at 80+CRI or 90 CRI
- Options to meet Build America, Buy America, Buy American and other domestic preference requirements

Dimensional and Mounting Details



[additional product diagrams](#)

Order Information

SAMPLE ORDER NUMBER: **24SR-LD2-48-C-UNV-L835-CD1-WPN-U**

Domestic Preferences ⁽¹⁾	Rating	Series ⁽³⁾	Air	Lamp Type	Lumen Outputs			
[Blank] =Standard BAA =Buy American Act TAA =Trade Agreements Act BABAF =FHWA and FTA projects funded through October 1, 2026	[Blank] =Standard ATW-SW4 =Chicago Rated ⁽²⁾	24SR =2' x 4' SkyRidge Series 22SR =2' x 2' SkyRidge Series 14SR =1' x 4' SkyRidge Series 12SR =1' x 2' SkyRidge Series	[Blank] =Standard A =Air (Vented) ⁽⁴⁾	LD2 =LED 2.0	2x4 Stock Lumen Outputs 39 =3900 Lumens 48 =4800 Lumens 2x4 MTO Lumen Outputs 29 =2900 Lumens ^{(5), (6)} 34 =3400 Lumens ^{(5), (6)} 45 =4500 Lumens 53 =5300 Lumens 59 =5900 Lumens 64 =6400 Lumens ⁽⁷⁾	2x2 Stock Lumen Outputs 20 =2000 Lumens 29 =2900 Lumens 2x2 MTO Lumen Outputs 25 =2500 Lumens	1x4 MTO Lumen Outputs 20 =2000 Lumens 25 =2500 Lumens 30 =3000 Lumens 35 =3500 Lumens 41 =4100 Lumens ^{(8), (9)} 45 =4500 Lumens ⁽⁹⁾	1x2 MTO Lumen Outputs 9 =900 Lumens 12 =1200 Lumens 16 =1600 Lumens 20 =2000 Lumens 41 =4100 Lumens 45 =4500 Lumens
Notes (1) Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA), Trade Agreements Act of 1979 (TAA), or the Build America Buy America Act (BABAA). BABAA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. BABAF designates the product will meet the standards set for FHWA and FTA. As noted, these must be funded by October 1, 2026. Please refer to DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team 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. 12SR and 14SR are not DLC listed	Notes (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. Air version is not offered for the 12SR.		Notes (5) 2900 and 3400 lumen packages are not available with Step-Dim driver. (6) 2900 and 3400 lumen packages are not available with SLTD -Dali option driver. (7) SLTHD option uses two drivers at 6400 lumens.		Notes (8) Step-dim driver is only available with 4100 and 4500 lumen packages (9) Fifth Light (SLTD) driver is only available with 4100 and 4500 lumen packages.	

Reflector	Optics	Voltage ⁽¹⁰⁾	Emergency Options	CCT	Flex
C =Curved (Standard)	[Blank] =Standard	347V =347 Volt UNV =Universal Voltage 120-277V 120V =120 Volt ⁽¹¹⁾ 277V =277 Volt ⁽¹¹⁾	EL7W =7-watt, 120V-277V emergency battery pack installed ⁽¹²⁾ EL14W =14-watt 120V-277V emergency battery pack installed ⁽¹²⁾ ETRD =120-277V Emergency Transfer Relay with dimming control ⁽¹³⁾	L830 =80+CRI, 3000K L835 =80+CRI, 3500K L840 =80+CRI, 4000K L850 =80+CRI, 5000K L930 =90CRI, 3000K L935 =90CRI, 3500K L940 =90CRI, 4000K L950 =90CRI, 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.
		Notes (10) Products also available in non-US voltages and frequencies for international markets. (11) Must specify voltage as 120V or 277V when ordering GTR2 option.	Notes (12) 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. (13) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). ETRD option only requires one relay when used on a dimming fixture.		Flexible Metal Conduit Options 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. 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).

Driver Type	Number of Drivers	Integrated Sensing Systems	SkyTrim ⁽²⁰⁾	Packaging	Accessories (order separately) ⁽²¹⁾
CD =0-10V Driver (1%-100% Dimming) ⁽¹⁷⁾ SLTD =DALI Driver (5%-100% Dimming) ⁽¹⁵⁾ SLTHD =DALI Driver (1%-100% Dimming) ⁽¹⁶⁾ SD =Step Dimming Driver (50%-100% Dimming) ⁽¹⁴⁾ 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	[Blank] =No Sensor WLS =WaveLinX LITE Integrated Sensor, Dim and Daylight, Bluetooth, 8'-15' MH ^{(19), (8)} WPS =WaveLinX PRO Integrated Sensor, Dim and Daylight, ZigBee, 8'-15' MH ^{(18), (8)} WLN =WaveLinX LITE Integrated Node, Dim and Daylight, Bluetooth ^{(19), (8)} WPN =WaveLinX PRO Integrated Node, Dim and Daylight, ZigBee ^{(18), (8)}	[BLANK] =Standard, No SkyTrim TB =Tahitian 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-24W-U =2' x 4' Drywall Frame Kit SK-24-WT =2' x 4' Tall Surface Mount Kit
Notes (14) 2900 and 3400 lumen packages are not available with Step-Dim (SD) driver. Step-dim (SD) driver is only available with 4100 and 4500 lumen packages. (15) 2900 and 3400 lumen packages are not available with DALI (SLTD) driver. (16) DALI (SLTHD) option uses two drivers at 6400 lumens. DALI (SLTD) driver is only available with 4100 and 4500 lumen packages. (17) WPS and WPN node used with CD drivers only. 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: (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		Notes (18) WPS and WPN node used with CD drivers only. (19) WLS and WLN node used with CD drivers only. 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) Consult WaveLinX LITE system pages for additional details and compatibility.	Notes (20) Fixtures using factory installed SkyTrim option are not DLC qualified.		Notes (21) 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 4.75" 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 to 1% standard
- Integrated WaveLinX options provide wireless individual fixture control and enable code compliance, increased energy savings, grouping of fixtures, and connection to WaveLinX control systems
- DALI 2.0, Lutron, and step-dimming available

Electrical

- LED's available in 3000K, 3500K, 4000K or 5000K with a minimum 80+ CRI or 90 CRI
- 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 120~277V integral emergency battery pack available (see ordering information for details)
- 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)

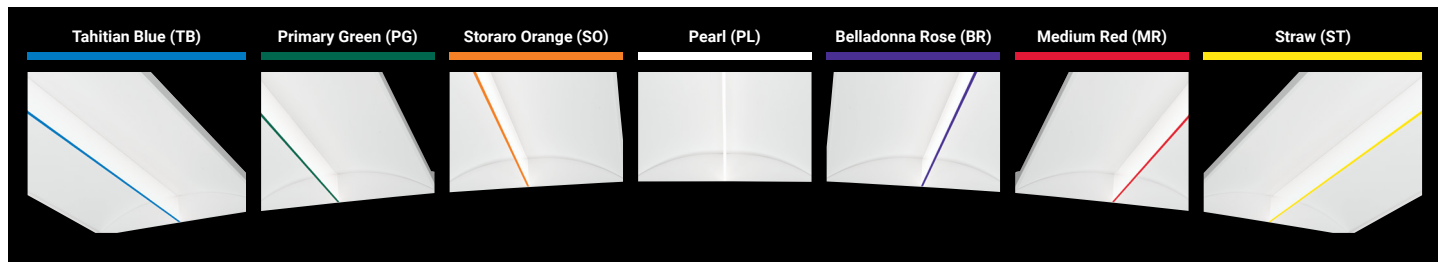
BABA Domestic Preference Compliance

- FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Cooper's products with a BAA designation are manufactured in the US and utilize a BAA COTS exemption rule for compliance. To verify a configured product with specific accessories and options meet BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams. Please refer to the [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

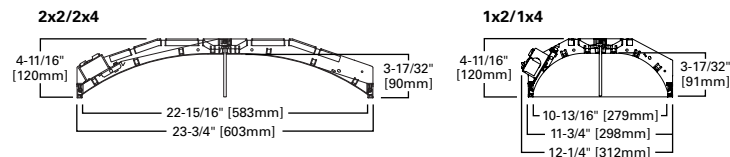
Warranty

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

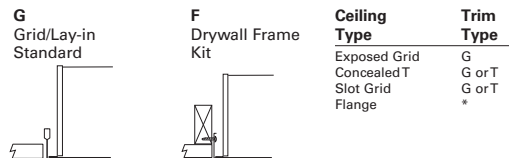
SkyTrim Options



Lamp Configurations



Ceiling Compatibility

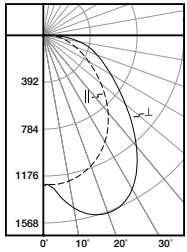


*See Drywall Frame Kit Accessory in Ordering Information section.

**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.

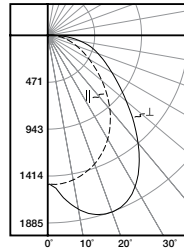
Photometric Data

[View IES files](#)



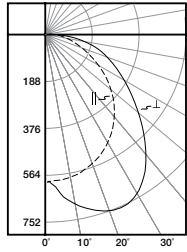
24SR-LD2-39-CUNV-L835-CD1-U

Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.18 x mounting height,
(⊥) 1.52 x mounting height
Lumens: 4778
Input Watts: 34.8W
Efficacy: 137.3 lm/W
Test Report: 24SR-LD2-39-CUNV-L835-CD1-U.IES



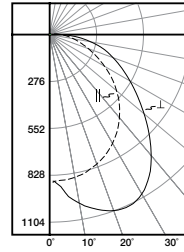
24SR-LD2-48-CUNV-L835-CD1-U

Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.18 x mounting height,
(⊥) 1.52 x mounting height
Lumens: 3877
Input Watts: 27.7W
Efficacy: 140.0 lm/W
Test Report: 24SR-LD2-48-CUNV-L835-CD1-U.IES



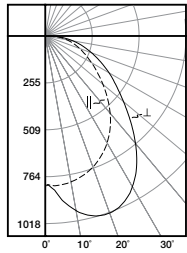
22SR-LD2-20-CUNV-L835-CD1-U

Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.22 x mounting height,
(⊥) 1.6 x mounting height
Lumens: 1927
Input Watts: 13.8W
Efficacy: 139.6 lm/W
Test Report: 22SR-LD2-20-CUNV-L835-CD1-U.IES



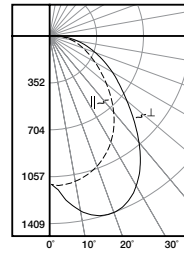
22SR-LD2-29-CUNV-L835-CD1-U

Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.22 x mounting height,
(⊥) 1.6 x mounting height
Lumens: 2748
Input Watts: 20.3W
Efficacy: 135.4 lm/W
Test Report: 22SR-LD2-29-CUNV-L835-CD1-U.IES



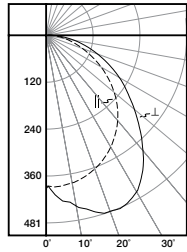
14SR-LD2-25-C-UNV-L835-CD1-U

Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height,
(⊥) 1.51 x mounting height
Lumens: 2412
Input Watts: 17.2W
Efficacy: 140.2 lm/W
Test Report: 14SR-LD2-25-C-UNV-L835-CD1-U.IES



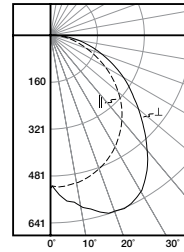
14SR-LD2-35-C-UNV-L835-CD1-U

Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height,
(⊥) 1.51 x mounting height
Lumens: 3456
Input Watts: 25.1W
Efficacy: 137.7 lm/W
Test Report: 14SR-LD2-35-C-UNV-L835-CD1-U.IES



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

Electronic Driver
Linear LED 3500K
Spacing criterion: (II) 1.25 x mounting height,
(⊥) 1.56 x mounting height
Lumens: 1205
Input Watts: 8.9W
Efficacy: 135.4 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,
(⊥) 1.56 x mounting height
Lumens: 1664
Input Watts: 12.1W
Efficacy: 137.5 lm/W
Test Report: 12SR-LD2-16-CUNV-L835-CD1-U.IES

2' x 4' Energy and Performance Data by Catalog Number

Stock or MTO	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (LPW)	Glare Performance	
					UGR ⁽¹⁾	Max Luminance ⁽¹⁾
MTO	24SR-LD2-29-C-UNV-L830-CD1-U	2793	19.8	141.1	18.1	1797
MTO	24SR-LD2-29-C-UNV-L835-CD1-U	2821	19.8	142.5	18.1	1814
MTO	24SR-LD2-29-C-UNV-L840-CD1-U	2908	19.8	146.9	18.2	1871
MTO	24SR-LD2-29-C-UNV-L850-CD1-U	2879	19.8	145.4	18.2	1853
MTO	24SR-LD2-34-C-UNV-L830-CD1-U	3262	23.3	140.0	18.6	2098
MTO	24SR-LD2-34-C-UNV-L835-CD1-U	3296	23.3	141.5	18.7	2120
MTO	24SR-LD2-34-C-UNV-L840-CD1-U	3397	23.3	145.8	18.8	2184
MTO	24SR-LD2-34-C-UNV-L850-CD1-U	3363	23.3	144.3	18.7	2163
MTO	24SR-LD2-39-C-UNV-L830-CD1-U	3838	27.7	138.6	19.2	2469
STOCK	24SR-LD2-39-C-UNV-L835-CD1-U	3877	27.7	140.0	19.2	2493
STOCK	24SR-LD2-39-C-UNV-L840-CD1-U	3996	27.7	144.3	19.3	2570
MTO	24SR-LD2-39-C-UNV-L850-CD1-U	3957	27.7	142.8	19.3	2546
MTO	24SR-LD2-45-C-UNV-L830-CD1-U	4354	31.9	136.5	19.6	2800
MTO	24SR-LD2-45-C-UNV-L835-CD1-U	4399	31.9	137.9	19.7	2830
MTO	24SR-LD2-45-C-UNV-L840-CD1-U	4534	31.9	142.1	19.8	2916
MTO	24SR-LD2-45-C-UNV-L850-CD1-U	4489	31.9	140.7	19.8	2887
MTO	24SR-LD2-48-C-UNV-L830-CD1-U	4729	34.8	135.9	19.9	3041
STOCK	24SR-LD2-48-C-UNV-L835-CD1-U	4778	34.8	137.3	20.0	3074
STOCK	24SR-LD2-48-C-UNV-L840-CD1-U	4924	34.8	141.5	20.1	3168
MTO	24SR-LD2-48-C-UNV-L850-CD1-U	4876	34.8	140.1	20.0	3137
MTO	24SR-LD2-53-C-UNV-L830-CD1-U	5164	38.4	134.5	20.2	3322
MTO	24SR-LD2-53-C-UNV-L835-CD1-U	5217	38.4	135.9	20.3	3356
MTO	24SR-LD2-53-C-UNV-L840-CD1-U	5377	38.4	140.0	20.4	3458
MTO	24SR-LD2-53-C-UNV-L850-CD1-U	5324	38.4	138.6	20.3	3424
MTO	24SR-LD2-59-C-UNV-L830-CD1-U	5800	43.8	132.4	20.6	3731
MTO	24SR-LD2-59-C-UNV-L835-CD1-U	5859	43.8	133.8	20.7	3768
MTO	24SR-LD2-59-C-UNV-L840-CD1-U	6039	43.8	137.9	20.8	3884
MTO	24SR-LD2-59-C-UNV-L850-CD1-U	5979	43.8	136.5	20.7	3846
MTO	24SR-LD2-64-C-UNV-L830-CD1-U	6216	47.6	130.6	20.9	3998
MTO	24SR-LD2-64-C-UNV-L835-CD1-U	6280	47.6	131.9	20.9	4040
MTO	24SR-LD2-64-C-UNV-L840-CD1-U	6472	47.6	136.0	21.0	4164
MTO	24SR-LD2-64-C-UNV-L850-CD1-U	6408	47.6	134.6	21.0	4122

Notes:

(1) UGR values per CIE 190:2010 with 4H, 8H, Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane.

Luminance measured at 45-90 degrees from nadir.

UGR and Luminance values that meet WELL v2 L04 requirements for Managing Glare are shown with green highlighted cell (UGR < 16, Luminance < 6,000).

UGR and Luminance values that meet LEED v4.1 requirements for Glare Control are shown with green text (UGR < 19, Luminance < 7,000).

Key

	Meets WELL v2
TEXT	Meets LEED v4.1

Lumen Calculator

CCT Multiplier	80+CRI/90 CRI
3000K	0.99
3500K	1.00
4000K	1.03
5000K	1.02

Example of Lumen Adjustment Calculation

24SR-LD2-45-C-UNV-L835-CD1-U
at 90CRI at 3500K

Lumen Adjustment Factor = 1.00

Total Light Output = 4,399 lm x 1.00 = 4,399 lm

Efficacy = $\frac{4,399 \text{ lm}}{31.9 \text{ W}}$ = 137.9 lm/W

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.

Lumen Maintenance (Non-IC Data)

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) ⁽¹⁾	Theoretical L70 (Hours) ⁽²⁾
25°C	> 90%	> 155,000

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.

Shielding

Lumen Adjustment Factors						
TB	PG	SO	PL	BR	MR	ST
0.640	0.592	0.701	0.868	0.582	0.586	0.932

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

Shipping Data

Catalog No.	Wt.
24SR-LD2-39	24 lbs.
24SR-LD2-48	24 lbs.

2' x 2' Energy and Performance Data by Catalog Number

Stock or MTO	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (LPW)	Glare Performance	
					UGR ⁽¹⁾	Max Luminance ⁽¹⁾
MTO	22SR-LD2-20-C-UNV-L830-CD1-U	1908	13.8	138.3	19.8	2242
STOCK	22SR-LD2-20-C-UNV-L835-CD1-U	1927	13.8	139.6	19.8	2266
STOCK	22SR-LD2-20-C-UNV-L840-CD1-U	1986	13.8	143.9	19.9	2334
MTO	22SR-LD2-20-C-UNV-L850-CD1-U	1967	13.8	142.5	19.9	2313
MTO	22SR-LD2-25-C-UNV-L830-CD1-U	2435	17.9	136.0	20.6	2862
MTO	22SR-LD2-25-C-UNV-L835-CD1-U	2460	17.9	137.4	20.7	2890
MTO	22SR-LD2-25-C-UNV-L840-CD1-U	2535	17.9	141.6	20.8	2980
MTO	22SR-LD2-25-C-UNV-L850-CD1-U	2510	17.9	140.2	20.8	2949
MTO	22SR-LD2-29-C-UNV-L830-CD1-U	2720	20.3	134.0	21.0	3196
STOCK	22SR-LD2-29-C-UNV-L835-CD1-U	2748	20.3	135.4	21.1	3230
STOCK	22SR-LD2-29-C-UNV-L840-CD1-U	2832	20.3	139.5	21.2	3328
MTO	22SR-LD2-29-C-UNV-L850-CD1-U	2804	20.3	138.1	21.1	3294

Notes:

(1) UGR values per CIE 190:2010 with 4H, 8H, Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane.

Luminance measured at 45-90 degrees from nadir.

UGR and Luminance values that meet WELL v2 L04 requirements for Managing Glare are shown with green highlighted cell (UGR < 16, Luminance < 6,000).

UGR and Luminance values that meet LEED v4.1 requirements for Glare Control are shown with green text (UGR < 19, Luminance < 7,000).

Key

	Meets WELL v2
TEXT	Meets LEED v4.1

Lumen Calculator

CCT Multiplier	80+CRI/90 CRI
3000K	0.99
3500K	1.00
4000K	1.03
5000K	1.02

Example of Lumen Adjustment Calculation

22SR-LD2-25-C-UNV-L835-CD1-U
at 90CRI at 3500K

Lumen Adjustment Factor = 1.00

Total Light Output = 2,460 lm x 1.00 = 2,460 lm

Efficacy = $\frac{2,460 \text{ lm}}{17.9 \text{ W}}$ = 137.4 lm/W

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 (60,000 hours) ⁽¹⁾	Theoretical L70 (Hours) ⁽²⁾
25°C	> 90%	> 155,000

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.

Shielding

Lumen Adjustment Factors						
TB	PG	SO	PL	BR	MR	ST
0.640	0.592	0.701	0.868	0.582	0.586	0.932

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

Shipping Data

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

1' x 4' Energy and Performance Data by Catalog Number

Stock or MTO	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (LPW)	Glare Performance	
					UGR ⁽¹⁾	Max Luminance ⁽¹⁾
MTO	14SR-LD2-20-C-UNV-L830-CD1-U	1919	13.7	140.1	18.4	1992
MTO	14SR-LD2-20-C-UNV-L835-CD1-U	1938	13.7	141.5	18.4	2010
MTO	14SR-LD2-20-C-UNV-L840-CD1-U	1998	13.7	145.8	18.5	2072
MTO	14SR-LD2-20-C-UNV-L850-CD1-U	1978	13.7	144.4	18.5	2053
MTO	14SR-LD2-25-C-UNV-L830-CD1-U	2388	17.2	138.8	19.1	2479
MTO	14SR-LD2-25-C-UNV-L835-CD1-U	2412	17.2	140.2	19.2	2504
MTO	14SR-LD2-25-C-UNV-L840-CD1-U	2486	17.2	144.5	19.3	2578
MTO	14SR-LD2-25-C-UNV-L850-CD1-U	2461	17.2	143.1	19.2	2553
MTO	14SR-LD2-30-C-UNV-L830-CD1-U	2966	21.5	138.0	19.9	3078
MTO	14SR-LD2-30-C-UNV-L835-CD1-U	2996	21.5	139.4	19.9	3109
MTO	14SR-LD2-30-C-UNV-L840-CD1-U	3088	21.5	143.6	20.0	3205
MTO	14SR-LD2-30-C-UNV-L850-CD1-U	3058	21.5	142.2	20.0	3174
MTO	14SR-LD2-35-C-UNV-L830-CD1-U	3421	25.1	136.3	20.4	3551
MTO	14SR-LD2-35-C-UNV-L835-CD1-U	3456	25.1	137.7	20.4	3585
MTO	14SR-LD2-35-C-UNV-L840-CD1-U	3562	25.1	141.9	20.5	3696
MTO	14SR-LD2-35-C-UNV-L850-CD1-U	3527	25.1	140.5	20.5	3659
MTO	14SR-LD2-41-C-UNV-L830-CD1-U	3982	29.6	134.5	20.9	4131
MTO	14SR-LD2-41-C-UNV-L835-CD1-U	4023	29.6	135.9	20.9	4174
MTO	14SR-LD2-41-C-UNV-L840-CD1-U	4147	29.6	140.1	21.0	4304
MTO	14SR-LD2-41-C-UNV-L850-CD1-U	4106	29.6	138.7	21.0	4261
MTO	14SR-LD2-45-C-UNV-L830-CD1-U	4423	33.3	132.8	21.3	4588
MTO	14SR-LD2-45-C-UNV-L835-CD1-U	4468	33.3	134.2	21.3	4638
MTO	14SR-LD2-45-C-UNV-L840-CD1-U	4605	33.3	138.3	21.4	4780
MTO	14SR-LD2-45-C-UNV-L850-CD1-U	4559	33.3	136.9	21.4	4730

Notes:

(1) UGR values per CIE 190:2010 with 4H, 8H, Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane.

Luminance measured at 45-90 degrees from nadir.

UGR and Luminance values that meet WELL v2 L04 requirements for Managing Glare are shown with green highlighted cell (UGR < 16, Luminance < 6,000).

UGR and Luminance values that meet LEED v4.1 requirements for Glare Control are shown with green text (UGR < 19, Luminance < 7,000).

Key

	Meets WELL v2
TEXT	Meets LEED v4.1

Lumen Calculator

CCT Multiplier	80+CRI/90 CRI
3000K	0.99
3500K	1.00
4000K	1.03
5000K	1.02

Example of Lumen Adjustment Calculation

14SR-LD2-30-C-UNV-L835-CD1-U
at 90CRI at 3500K

Lumen Adjustment Factor = 1.00

Total Light Output = 2,996 lm x 1.00 = 2,996 lm

Efficacy = $\frac{2,996 \text{ lm}}{21.5 \text{ W}}$ = 139.4 lm/W

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.

Lumen Maintenance (Non-IC Data)

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) ⁽¹⁾	Theoretical L70 (Hours) ⁽²⁾
25°C	> 90%	> 155,000

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.

Shielding

Lumen Adjustment Factors						
TB	PG	SO	PL	BR	MR	ST
0.640	0.592	0.701	0.868	0.582	0.586	0.932

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

Shipping Data

Catalog No.	Wt.
14SR-LD2-12	18 lbs.

1' x 2' Energy and Performance Data by Catalog Number

Stock or MTO	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (LPW)	Glare Performance	
					UGR ⁽¹⁾	Max Luminance ⁽¹⁾
MTO	12SR-LD2-12-C-UNV-L830-CD1-U	1193	8.9	134.0	19.3	2254
MTO	12SR-LD2-16-C-UNV-L830-CD1-U	1647	12.1	136.1	20.4	3112
MTO	12SR-LD2-20-C-UNV-L830-CD1-U	2054	15.2	135.1	21.2	3880
MTO	12SR-LD2-9-C-UNV-L830-CD1-U	854	7.9	108.1	18.1	1614
MTO	12SR-LD2-12-C-UNV-L835-CD1-U	1205	8.9	135.4	19.3	2277
MTO	12SR-LD2-16-C-UNV-L835-CD1-U	1664	12.1	137.5	20.4	3143
MTO	12SR-LD2-20-C-UNV-L835-CD1-U	2075	15.2	136.5	21.2	3921
MTO	12SR-LD2-9-C-UNV-L835-CD1-U	863	7.9	109.2	18.2	1630
MTO	12SR-LD2-12-C-UNV-L840-CD1-U	1242	8.9	139.6	19.4	2347
MTO	12SR-LD2-16-C-UNV-L840-CD1-U	1715	12.1	141.7	20.5	3240
MTO	12SR-LD2-20-C-UNV-L840-CD1-U	2139	15.2	140.7	21.3	4041
MTO	12SR-LD2-9-C-UNV-L840-CD1-U	889	7.9	112.5	18.3	1680
MTO	12SR-LD2-12-C-UNV-L850-CD1-U	1230	8.9	138.2	19.4	2324
MTO	12SR-LD2-16-C-UNV-L850-CD1-U	1698	12.1	140.3	20.5	3208
MTO	12SR-LD2-20-C-UNV-L850-CD1-U	2118	15.2	139.3	21.3	4001
MTO	12SR-LD2-9-C-UNV-L850-CD1-U	880	7.9	111.4	18.2	1662

Notes:

(1) UGR values per CIE 190:2010 with 4H, 8H, Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane.

Luminance measured at 45-90 degrees from nadir.

UGR and Luminance values that meet WELL v2 L04 requirements for Managing Glare are shown with green highlighted cell (UGR < 16, Luminance < 6,000).

UGR and Luminance values that meet LEED v4.1 requirements for Glare Control are shown with green text (UGR < 19, Luminance < 7,000).

Key

	Meets WELL v2
TEXT	Meets LEED v4.1

Lumen Calculator

CCT Multiplier	80+CRI/90 CRI
3000K	0.99
3500K	1.00
4000K	1.03
5000K	1.02

Example of Lumen Adjustment Calculation

12SR-LD2-20-C-UNV-L835-CD1-U
at 90CRI at 3500K

Lumen Adjustment Factor = 1.00

Total Light Output = 2,075 lm x 1.00 = 2,075 lm

Efficacy = $\frac{2,075 \text{ lm}}{21.2 \text{ W}}$ = 136.5 lm/W

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 (60,000 hours) ⁽¹⁾	Theoretical L70 (Hours) ⁽²⁾
25°C	> 90%	> 155,000

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.

Shielding

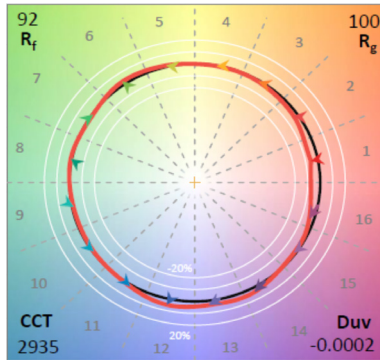
Lumen Adjustment Factors						
TB	PG	SO	PL	BR	MR	ST
0.640	0.592	0.701	0.868	0.582	0.586	0.932

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

Shipping Data

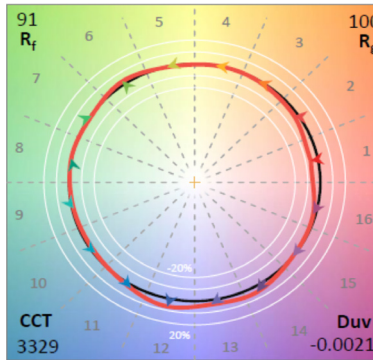
Catalog No.	Wt.
12SR-LD2-12	8 lbs.

TM-30 DATA FOR 90 CRI (3000K)
ANSI/IES TM-30-18 Color Rendition Report



— Reference Illuminant — Test Source

TM-30 DATA FOR 90 CRI (3500K)
ANSI/IES TM-30-18 Color Rendition Report

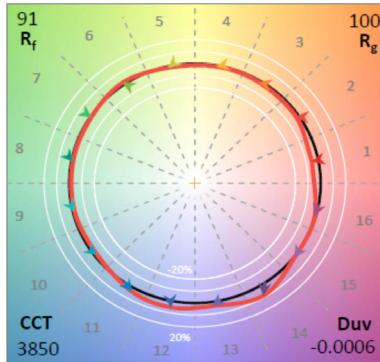


— Reference Illuminant — Test Source

TM-30 data is extrapolated from LM-79 integrating sphere tests. Contact factory for specific TM-30 data.

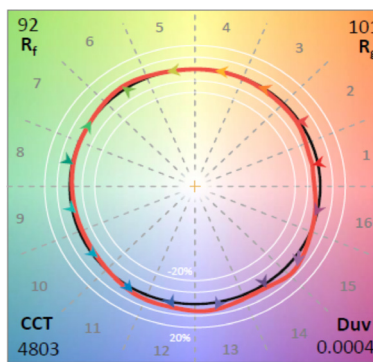
CRI	CCT	CRI	R _f	R _g	R _b
80+	3000K	93	92	100	55
	3500K	93	91	100	61
	4000K	94	91	100	65
	5000K	95	92	101	74

TM-30 DATA FOR 90 CRI (4000K)
ANSI/IES TM-30-18 Color Rendition Report



— Reference Illuminant — Test Source

TM-30 DATA FOR 90 CRI (5000K)
ANSI/IES TM-30-18 Color Rendition Report



— Reference Illuminant — Test Source

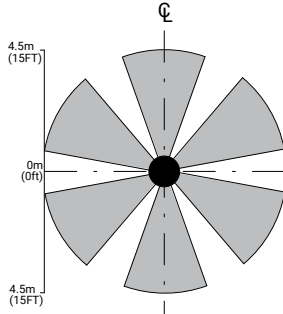
Control Solutions

- WaveLinX LITE wireless
- WaveLinX PRO wireless
- WaveLinX CAT wired
- WaveLinX DALI wired

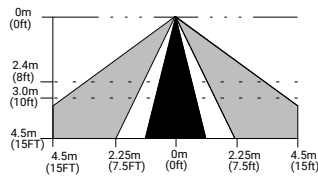


Integrated Sensor Coverage Pattern

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.

With Integrated WaveLinX Sensor	With Integrated WaveLinX Node
Add a hidden WaveLinX Node (WPN, WLN) to your space lighting design! To: • Keep luminaire aesthetics • Connect fixtures without space for a sensor, such as downlights • Connect sealed fixtures without a standard sensor option such as products for clinical space	

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

WaveLinX by Cooper Lighting Solutions is a wired and wireless solution for a single room, a parking lot, or an entire campus, helping meet energy codes, reduce energy use, and create healthier environments. As a true hybrid architecture, it enables the seamless integration of DALI, CAT, and PRO technologies and luminaires for unmatched reliability and flexibility, with sensor-enabled luminaires that can also share data with the WaveLinX CORE platform, further improving operations across office, education, healthcare, warehouse, and parking garage applications.



WaveLinX LITE is a Bluetooth wireless digital lighting control solution with out-of-the-box functionality that saves energy and meets energy codes. It's designed for applications that require occupancy-based, daylighting, or manual light control using WaveLinX LITE-enabled luminaires and a mobile app for cost-effective projects.



WaveLinX PRO is a Zigbee wireless solution that offers a rich portfolio of devices, WaveLinX PRO-enabled luminaires, and a mobile app and the WAC (WaveLinX Area Controller). It offers advanced energy savings and deep data integration to improve the occupant experience.



WaveLinX CAT is a scalable CAT5-wired solution for a single room and connected spaces, supporting applications that require occupancy-based, daylighting, or manual light control, with self-commissioning to meet energy codes and maximize energy savings.



WaveLinX DALI is a powerful two-wire DALI-2 solution for connected spaces, combining open-standard devices enabling interoperability with the simplicity of WaveLinX app-based commissioning. It delivers deterministic wired control, granular addressability, and tunable white.

Integrated Controls Options

Option	Out of the Box Functionality	Luminaire Level Lighting Control (LLLC)	Automatic Dimming Photocell	Occupancy Sensing	CCT Control*
WLS (WaveLinX LITE Sensor)	X	X	X	X	
WLN (WaveLinX LITE Node)		X			
WPS (WaveLinX PRO Sensor)		X	X	X	X
WPN (WaveLinX PRO Node)		X			X

Note: *WaveLinX utilizes scenes to allow users to change an area's fixtures Correlated Color Temperature (CCT) and intensity using a commissioned wireless wallstation scene controller. To enable CCT adjustments through WaveLinX, include WPS or WPN devices in addition to VividTune or BioUp technologies for integrated fixture control. WPS with CCT controls the intensity of the fixture; an additional, externally mounted control device is needed to control the CCT. See [RSP-P-010-347](#)

Emergency Lighting

All buildings have to comply with emergency lighting codes to maintain their certificate of occupancy. To enable this, Cooper Lighting Solutions has created multiple offerings to suit the building type and luminaire type.

Options to Enable Emergency (Stand Alone)

	Standard	Self-Diagnostic	FirstLink Connected ETO for Factory-Installed Only 
Metalux Recessed, HALO, APG, Outdoor Medium forward voltage LED arrays usually 20-60V DC	Batteries: EBPLEDL7W, EBPLEDL14W Inverters: INVM-10W-AD	Batteries: EBPLED10WSD, EBPLED7.5WSD Inverters: INVM-25W-ADSD, INVM-50W-ADSD	Batteries: EBPLEDL10SF, EBPLEDL6SF
Metalux Industrial High forward voltage LED arrays usually 90-200V DC	Batteries: EBPLEDL1HV Inverters: INVM-10W-AD, INVM-100W-AD	Inverters: INVM-25W-ADSD, INVM-50W-ADSD	
How is emergency lighting inspection done?	Turn breakers off Walk around the building and collect compliance data.	No need to turn breakers off. Walk around, look up and collect compliance data.	No need to turn breaker off, No walking around. Open the app, push a button, and collect compliance data.

NOTE: 1. For factory installed First-Link EBP, order xSF option. Example: ETO_22CZ2-34HE-UNV-EBP10SF-L835-CD1-U (see Luminaire Order Info)
2. For factory installed standard EBP. Example: 22CZ2-34HE-UNV-EL7W-L835-CD1--U

Connected Emergency Lighting ETO via Factory-Installed Only



Use our Connected Emergency Lighting products (FirstLink) to reduce the cost of compliance.

FirstLink is a complete and fully code compliant connected emergency egress lighting system comprised of FirstLink enabled exit signs, unit equipment, emergency LED drivers and the FirstLink application. The monthly and annual tests can be scheduled to be performed on a cadence. And the FirstLink app easy, instant access to compliance information and your system status. Reports can be easily exported to prove the system compliance status is 100%.



Compliance

- Avoid costly non-compliance fines
- Helps reduce risks and insurance premiums



Convenience

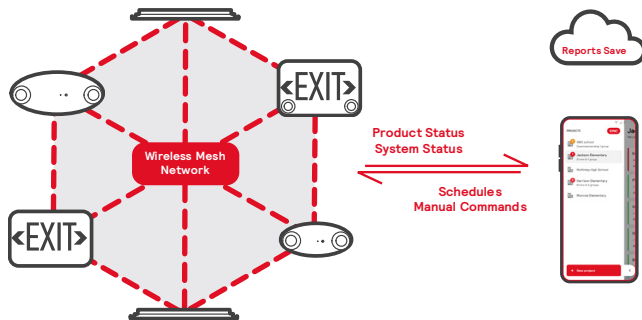
- No ladders
- No documentation
- No searching for reports during an inspection.



Control

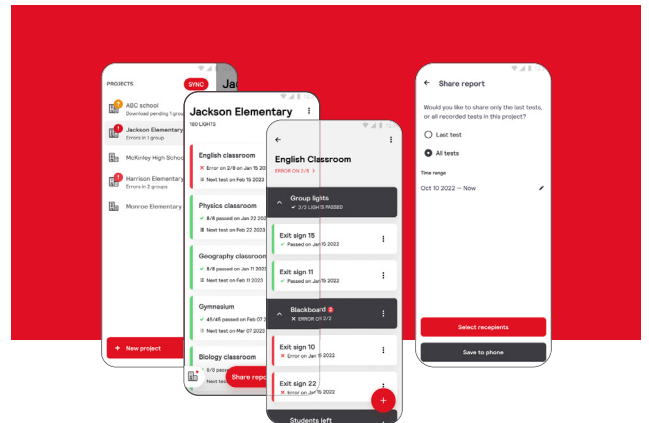
- Scheduling: Adjust the frequency and timing of testing.
- Troubleshooting: Receive complete product status information.
- Customization: Create custom groups and zones.

How does FirstLink work?



FirstLink is a standalone wireless mesh network that connects all devices and ensures a reliable connection through the network, even during the loss of individual devices.

If the app can communicate with just one device, the status of all devices can be read. Once the status is downloaded, the data is uploaded and saved to the cloud.



The FirstLink App

Complete control is in your hands

The FirstLink app is your portal to the FirstLink system. This easy-to-navigate iOS and Android application gives you the ability to configure your system, view and export results, change testing schedules, and more.