Project	Catalog #	Тур	ре
Prepared by	Notes	Dat	te



Metalux

SkyRidge 24SR LED

2' 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

LINEAR DISCONNECT

of NFPA 90A and Section 602.2.1.4 of ICC.







Rapid Response

CLICK HERE





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 CURVED CURVED 4-11/16" [120mm] 3-17/32" [90mm] 4-11/16" [120mm] 22-15/16" [583mm] 23-3/4" [603mm] STRAIGHT 4-11/16" [120mm] 3-1/2" [89mm] 23-3/4" [603mm] 22-15/16" [584mm] **Ceiling Compatibility** 23-3/4" [603mm] Ceiling Trim Grid/Lay-in Drywall Frame Туре Type Standard Exposed Grid Concealed T Slot Grid 23-3/4 G or T *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 47-15/16" [1218mm]

Metalux 24SR LED 2' x 4'

Order Information

SAMPLE ORDER NUMBER: 24SR-LD2-48-C-UNV-L835-CD1-SVDP1-U

Domestic Preferences	Rating	Series	Air	Lamp Type	Lumen Outputs	Reflector	Optics	Voltage
Domestic Preferences (1)	Rating	Series (3)	Air	Lamp Type	Lumen Outputs	Reflector	Optics	Voltage (8)
[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act	[Blank]=Standard ATW-SW4=Chicago Rated ⁽²⁾	24SR =2' x 4' SkyRidge Series	[Blank]=Standard A=Air (Vented) ⁽⁴⁾	LD2=LED 2.0	Stock Lumen Outputs 39=3900 Lumens 48=4800 MTO Lumen Outputs 29=2900 Lumens (5), (6) 34=3400 Lumens 53=5300 Lumens 59=5900 Lumens 64=6400 Lumens (7)	C=Curved (Standard) S=Straight	[Blank]=Standard	347V =347 Volt UNV =Universal Voltage 120-277V 48V =48 Volt Low-voltage (Class 2) (C) 120V =120 Volt (9) 277V =277 Volt (9)
(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) Air version is vented but does not meet air handling requirements. Air version is non-IC. Air version is not available with integrated sensor.		(5) 2900 and 3400 lumen packages are not available with Step-Dim driver. (6) 2900 and 3400 lumen packages are not available with SITD -Dali option driver. (7) SITD option uses two drivers at 6400 lumens.			(8) Products also available in non-US voltages and frequencies for international markets. (9) 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 **Driver Type Number of Drivers**

Emergency Options	ССТ	Flex	Driver Type	Number of Drivers
EL7W=7-watt, 120V-277V emergency battery pack installed (19) EL14W=14-watt 120V-277V emergency battery pack installed (19) ELV7W=Low-voltage system, 7-watt emergency battery pack (©) ELV14W=Low-voltage system, 14-watt emergency battery pack (©) GTR2=Bodine Generator Transfer Relay (11), (12) ETRD=10ta Emergency Transfer Relay with dimming control (11)	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) (14) SLTHD=DALI Driver (1%-100% Dimming) (15) LV=Low-voltage System Driver (0%-100% Dimming) (15) SD=Step Dimming Driver (50%-100% Dimming) (13) LH=Lutron Hillume (LDET series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming (17) SR=Sensor-ready Driver (1%-100% Dimming)	1=1 Driver
Notes (10) 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 Im/w X 7=700 lumens). IES-format photometry for luminaire under emergency operation available. (11) Used to bypass local control during outlage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 option includes 2 realys on fixtures with dimming drivers. ETRD option only requires one relay when used on a dimming fixture. (12) Must specify voltage as 120V or 277V when ordering GTR2 option. (c) Consult Wave-Linx Low-Voltage or DLVP system pages for additional details and compatibility.		Flex options available for 0-10V dimming control, DALI dimming control, mergency 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 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 A4-59544 (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 (13) 2900 and 3400 lumen packages are not available with Step-Dim (SD) driver. (14) 2900 and 3400 lumen packages are not available with DALI (SLTD) driver. (15) DALI (SLTHD) option uses two drivers at 6400 lumens. 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: Cl. Low-Voltage System Diamenia Driver (08-100% Dimming). (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	

SkyTrim **Integrated Sensing Systems** Packaging Accessories

Integrated Sensing Systems	SkyTrim (19)	Packaging	Accessories (order separately) (20)
[Blank]=No Sensor WAA=WaveLinx PRO Wireless Integrated Sensor (16), (A) WPN=WaveLinx PRO Wireless Node without Sensor (16), (A) WAB=WaveLinx LITE Wireless Integrated Sensor (17), (B) WLA=Low-voltage Integrated Sensor (10), (C) SVPD1=0-10V Stand-alone Integrated Sensor (17), (B)	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' Tail Surface Mount Kit ISHH-01=Programming Remote for Integrated Sensor (®) ISHH-02=Personal Control Remote for Integrated Sensor (®)
Notes	Notes		Notes
(16) WAA sensor and WPN node to be used with CD or W2A driver. Consult factory for WPN with tunable white W2A driver. (17) WAB and SVPD1 sensor to be used with CD driver. (18) 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 LTE system pages for additional details and compatibility. (C) Consult WaveLinx Low-Voltage or DLYP system pages for additional details and compatibility. (D) Consult SVPD series system pages for additional details and compatibility.	(19) Fixtures using factory installed SkyTrim option are not DLC qualified.		(20) 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.



Metalux 24SR LED 2' x 4'

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
- · 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 ≤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

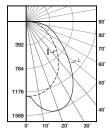
· Five-year warranty. Optional ten year warranty available.

SkyTrim Options



Photometric Data





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

Electronic Driver

Linear LED 3500K

Spacing criterion: (II) 1.18 x mounting height,

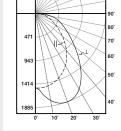
(⊥) 1.52 x mounting height

Lumens: 4197

Input Watts: 31.9W

Efficacy: 131.6 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: 5045

Input Watts: 38.2W

Efficacy: 132.1 lm/W

Test Report: 24SR-LD2-48-C-UNV-L835-CD1-U.IES

Metalux 24SR LED 2' x 4'

Energy and Performance Data by Catalog Number

Stock or MTO	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (LPW)
МТО	24SR-LD2-29-C-UNV-L830-CD1-U	2982	22.7	131
MTO	24SR-LD2-29-C-UNV-L835-CD1-U	3074	22.7	135
MTO	24SR-LD2-29-C-UNV-L840-CD1-U	3136	22.7	138
MTO	24SR-LD2-29-C-UNV-L850-CD1-U	3413	22.7	150
MTO	24SR-LD2-34-C-UNV-L830-CD1-U	3528	27.2	130
MTO	24SR-LD2-34-C-UNV-L835-CD1-U	3637	27.2	134
MTO	24SR-LD2-34-C-UNV-L840-CD1-U	3710	27.2	136
MTO	24SR-LD2-34-C-UNV-L850-CD1-U	4037	27.2	148
MTO	24SR-LD2-39-C-UNV-L830-CD1-U	4071	31.9	128
Stock	24SR-LD2-39-C-UNV-L835-CD1-U	4197	31.9	132
Stock	24SR-LD2-39-C-UNV-L840-CD1-U	4281	31.9	134
MTO	24SR-LD2-39-C-UNV-L850-CD1-U	4659	31.9	146
MTO	24SR-LD2-45-C-UNV-L830-CD1-U	4596	36.7	125
MTO	24SR-LD2-45-C-UNV-L835-CD1-U	4738	36.7	129
MTO	24SR-LD2-45-C-UNV-L840-CD1-U	4832	36.7	132
MTO	24SR-LD2-45-C-UNV-L850-CD1-U	5258	36.7	143
MTO	24SR-LD2-48-C-UNV-L830-CD1-U	4894	38.2	128
Stock	24SR-LD2-48-C-UNV-L835-CD1-U	5045	38.2	132
Stock	24SR-LD2-48-C-UNV-L840-CD1-U	5146	38.2	135
MTO	24SR-LD2-48-C-UNV-L850-CD1-U	5601	38.2	147
MTO	24SR-LD2-53-C-UNV-L830-CD1-U	5416	43.1	126
MTO	24SR-LD2-53-C-UNV-L835-CD1-U	5584	43.1	130
MTO	24SR-LD2-53-C-UNV-L840-CD1-U	5695	43.1	132
MTO	24SR-LD2-53-C-UNV-L850-CD1-U	6198	43.1	144
МТО	24SR-LD2-59-C-UNV-L830-CD1-U	6026	50.2	120
MTO	24SR-LD2-59-C-UNV-L835-CD1-U	6213	50.2	124
MTO	24SR-LD2-59-C-UNV-L840-CD1-U	6337	50.2	126
MTO	24SR-LD2-59-C-UNV-L850-CD1-U	6896	50.2	137
МТО	24SR-LD2-64-C-UNV-L830-CD1-U	6598	55.5	119
MTO	24SR-LD2-64-C-UNV-L835-CD1-U	6802	55.5	123
МТО	24SR-LD2-64-C-UNV-L840-CD1-U	6938	55.5	125
MTO	24SR-LD2-64-C-UNV-L850-CD1-U	7551	55.5	136



Metalux 24SR LED 2' x 4'

Energy and Performance Data by Catalog Number

Stock or MTO	Catalog Logic (Straight)	Delivered Lumens	Watts	Efficacy (LPW)
МТО	24SR-LD2-29-S-UNV-L830-CD1-U	2952	22.7	130
MTO	24SR-LD2-29-S-UNV-L835-CD1-U	3043	22.7	134
МТО	24SR-LD2-29-S-UNV-L840-CD1-U	3104	22.7	137
МТО	24SR-LD2-29-S-UNV-L850-CD1-U	3377	22.7	149
МТО	24SR-LD2-34-S-UNV-L830-CD1-U	3491	27.2	128
МТО	24SR-LD2-34-S-UNV-L835-CD1-U	3599	27.2	132
МТО	24SR-LD2-34-S-UNV-L840-CD1-U	3672	27.2	135
МТО	24SR-LD2-34-S-UNV-L850-CD1-U	3995	27.2	147
МТО	24SR-LD2-39-S-UNV-L830-CD1-U	4029	31.9	126
МТО	24SR-LD2-39-S-UNV-L835-CD1-U	4154	31.9	130
МТО	24SR-LD2-39-S-UNV-L840-CD1-U	4237	31.9	133
МТО	24SR-LD2-39-S-UNV-L850-CD1-U	4611	31.9	145
МТО	24SR-LD2-45-S-UNV-L830-CD1-U	4548	36.7	124
МТО	24SR-LD2-45-S-UNV-L835-CD1-U	4688	36.7	128
МТО	24SR-LD2-45-S-UNV-L840-CD1-U	4783	36.7	130
МТО	24SR-LD2-45-S-UNV-L850-CD1-U	5205	36.7	142
МТО	24SR-LD2-48-S-UNV-L830-CD1-U	4844	38.2	127
МТО	24SR-LD2-48-S-UNV-L835-CD1-U	4993	38.2	131
МТО	24SR-LD2-48-S-UNV-L840-CD1-U	5093	38.2	133
МТО	24SR-LD2-48-S-UNV-L850-CD1-U	5542	38.2	145
МТО	24SR-LD2-53-S-UNV-L830-CD1-U	5360	43.1	124
MTO	24SR-LD2-53-S-UNV-L835-CD1-U	5526	43.1	128
MTO	24SR-LD2-53-S-UNV-L840-CD1-U	5636	43.1	131
MTO	24SR-LD2-53-S-UNV-L850-CD1-U	6134	43.1	142
МТО	24SR-LD2-59-S-UNV-L830-CD1-U	5964	50.2	119
МТО	24SR-LD2-59-S-UNV-L835-CD1-U	6149	50.2	122
MTO	24SR-LD2-59-S-UNV-L840-CD1-U	6272	50.2	125
MTO	24SR-LD2-59-S-UNV-L850-CD1-U	6825	50.2	136
MTO	24SR-LD2-64-S-UNV-L830-CD1-U	6530	55.5	118
MTO	24SR-LD2-64-S-UNV-L835-CD1-U	6732	55.5	121
MTO	24SR-LD2-64-S-UNV-L840-CD1-U	6866	55.5	124
MTO	24SR-LD2-64-S-UNV-L850-CD1-U	7472	55.5	135

Shielding

	Lumen Adjustment Factors							
ТВ	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 (Non-IC Data)

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

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.

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.

Shipping Data

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



Metalux 24SR LED 2' x 4'



Control Systems

- · WaveLinx PRO Wireless
- · WaveLinx LITE Wireless
- · WaveLinx Wired

Integrated Sensor Coverage Pattern TOP VIEW: 4.5m (15FT) SIDE VIEW: 0m (0ft) 4.5m (15FT) 4.5m (15FT) 2.25m (7.5FT) 0m (0ft) 2.25m (7.5ft) 4.5m _ (15FT)

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 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.





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.









•		_		
sí	Luminaire with tandalone sensor	Standalone Spaces WaveLinx LITE	Networked Spaces WaveLinx PRO	Enterprise WaveLinx CORE
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 Mobile App	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 Cont	rol –	-	Yes	Yes
Low-Voltage Po	ower –	-	Yes	Yes
Integration	-	-	-	BACnet, API
Dashboards	-	-	-	Energy, Occupancy
Configuration	-	Installer	Technician	Technician / IT

SCALABILIT

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