DESCRIPTION

The SkyRidge™ transforms ambient lighting by perfectly blending a refined modern styling with our breakthrough WaveStream™ LED technology to deliver exceptional performance and superior energy savings. SkyRidge's advanced engineered LED system with superior optical design delivers an unparalleled combination of optimal light uniformity and exceptional efficiency for greater energy savings.

SkyRidge is compatible with all of today's popular ceiling systems and available in a variety of configurations for application versatility. Its perfect balance of form and function make it an ideal choice for commercial office spaces, schools, hospitals, retail and other indoor ambient applications.

Catalog #		Type
Project		
Comments		Date
Prepared by		

24SR LED

2' X 4' TROFFER LED MODULE

Specification Grade Troffer

SPECIFICATION FEATURES

Construction
Shallow 4.75" deep housing is extruded aluminum frame and injected molded composite end plates. End plates are securely attached with screws for strength and rigidity and the elimination of gaps. End plates have accessory grid-lock feature for safety and convenience. Four auxiliary fixture end suspension points are provided. Large access plate for supply connection.

Controls
The SkyRidge LED is Powered by Fifth Light, with a standard 0-10V continuous dimming driver that works with any 0-10V control/ dimmer. Combine with energy saving products like occupancy sensors, daylighting controls and lighting relay panels to maximize energy savings. In addition, the SkyRidge can include a factory-installed integrated sensor system for occupancy and daylight dimming control and manual control from an optional handheld remote. Or, specify the Digital Addressable Lighting Interface (DALI) drivers, dimmable down to 1% with the HD option, for use with Fifth Light controls. See ordering information for details on all three options.

Electrical
Long-life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3000K, 3500K, 4000K or 5000K with a typical CRI ≥ 85. Projected life is 60,000 hours at 84% lumen output. Electronic drivers are available for 120-277V applications.

Emergency Battery Pack Option
Optional 120v-277v integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

Driver Access
Drivers can be accessed via plenum.

Finish
Durable frame has high reflectance baked matte white enamel finish for luminous uniformity.

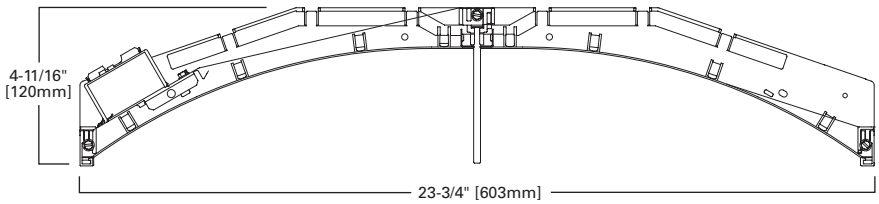
Optics
Precision formed optical assembly with positively retained high optical grade acrylic lens provides a directed optical distribution using WaveStream LED technology.

SkyTrim Accessory
Designed for an array of interior applications, SkyTrim is 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. It is ideal for spaces where color is necessary to provide visual cues, emphasize brand identity, directional awareness or simply as an artistic expression.

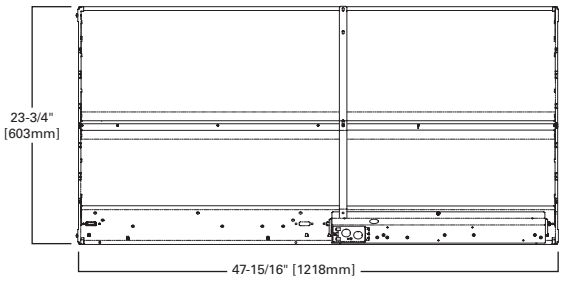
Compliance
Components are UL recognized. Indoor luminaires are cULus listed for 25° C ambient environments, RoHS compliant, and comply with IESNA LM-79. LEDs comply with LM-80 standards. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.

Warranty
Five year warranty.

CURVED

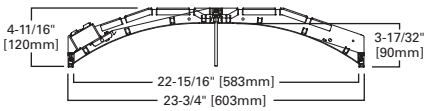


MOUNTING DATA



LAMP CONFIGURATIONS

CURVED



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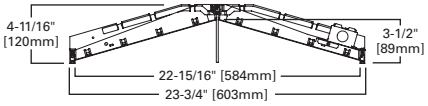


powered by fifthlight technology

CERTIFICATION DATA

cULus - 1598 and 2043**
Damp Location Listed
IC Rated
LM79/LM80 Compliant
ROHS Compliant
DesignLights Consortium® Qualified
NOM Compliant

*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.

LINEAR DISCONNECT
Safe and convenient means of disconnecting power

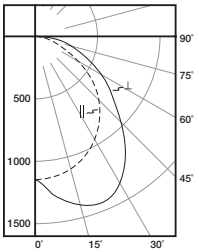
CEILING COMPATIBILITY

G
Grid/Lay-in
Standard

F
Drywall Frame
Kit

Ceiling Type	Trim Type
Exposed Grid	G
Concealed T	G or T
Slot Grid	G or T
Flange	*

PHOTOMETRICS



24SR-LD1-39-C-UNV-L835-CD1-U
Dimming Driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.6 x mounting height
Lumens: 3940
Input Watts: 38.8W
Efficacy: 102 LPW
Test Report: 22SR-LD1-39-C-UNV-L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across ⊥
0	1140	1140	1140
5	1140	1203	1251
10	1123	1270	1338
15	1097	1301	1400
20	1060	1311	1435
25	1012	1291	1421
30	951	1244	1355
35	883	1162	1247
40	804	1062	1111
45	717	954	970
50	621	840	834
55	513	724	702
60	402	609	592
65	299	502	486
70	213	408	393
75	143	321	303
80	91	238	205
85	47	134	111
90	0	0	0

Coefficients of Utilization

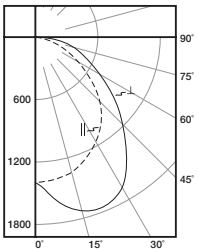
	Effective floor cavity reflectance				20%													
rc	80%				70%				50%			30%			10%			0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1063	27.0
0-40	1763	44.7
0-60	3060	77.7
0-90	3940	100.0
0-180	3940	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	1453	1934	1966
55	1282	1809	1754
65	1014	1703	1648
75	792	1778	1678
85	773	2204	1825



24SR-LD1-48-C-UNV-L835-CD1-U
Dimming Driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.6 x mounting height
Lumens: 4810
Input Watts: 49.1W
Efficacy: 98 LPW
Test Report: 22SR-LD1-48-C-UNV-L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across ⊥
0	1388	1388	1388
5	1389	1461	1524
10	1371	1547	1639
15	1338	1591	1718
20	1291	1605	1759
25	1230	1584	1741
30	1159	1520	1661
35	1071	1422	1523
40	976	1302	1354
45	867	1167	1180
50	746	1026	1015
55	616	881	854
60	481	742	722
65	359	614	596
70	251	497	483
75	170	396	376
80	107	293	256
85	57	167	133
90	0	0	0

Coefficients of Utilization

	Effective floor cavity reflectance				20%													
rc	80%				70%				50%			30%			10%			0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1298	27.0
0-40	2154	44.8
0-60	3734	77.6
0-90	4810	100.0
0-180	4810	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	1649	2220	2240
55	1444	2066	2003
65	1143	1954	1897
75	883	2058	1954
85	880	2577	2052

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (LPW)
MTO	24SR-LD1-29-C-UNV-L830-CD1-U	2867	28.2	102
MTO	24SR-LD1-29-C-UNV-L835-CD1-U	2998	28.2	106
MTO	24SR-LD1-29-C-UNV-L840-CD1-U	3034	28.2	108
MTO	24SR-LD1-29-C-UNV-L850-CD1-U	3209	28.1	114
MTO	24SR-LD1-34-C-UNV-L830-CD1-U	3302	33.1	100
MTO	24SR-LD1-34-C-UNV-L835-CD1-U	3451	33.0	104
MTO	24SR-LD1-34-C-UNV-L840-CD1-U	3503	33.0	106
MTO	24SR-LD1-34-C-UNV-L850-CD1-U	3705	33.1	112
MTO	24SR-LD1-39-C-UNV-L830-CD1-U	3713	39.1	95
Stock	24SR-LD1-39-C-UNV-L835-CD1-U	3940	38.8	102
Stock	24SR-LD1-39-C-UNV-L840-CD1-U	4019	39.2	102
MTO	24SR-LD1-39-C-UNV-L850-CD1-U	4251	39.2	108
MTO	24SR-LD1-45-C-UNV-L830-CD1-U	4288	46.7	92
MTO	24SR-LD1-45-C-UNV-L835-CD1-U	4538	46.2	98
MTO	24SR-LD1-45-C-UNV-L840-CD1-U	4656	46.3	101
MTO	24SR-LD1-45-C-UNV-L850-CD1-U	4925	46.8	105
MTO	24SR-LD1-48-C-UNV-L830-CD1-U	4512	49.0	92
Stock	24SR-LD1-48-C-UNV-L835-CD1-U	4810	49.1	98
Stock	24SR-LD1-48-C-UNV-L840-CD1-U	4944	49.0	101
MTO	24SR-LD1-48-C-UNV-L850-CD1-U	5230	49.0	107
MTO	24SR-LD1-53-C-UNV-L830-CD1-U	5053	56.6	89
MTO	24SR-LD1-53-C-UNV-L835-CD1-U	5396	56.6	95
MTO	24SR-LD1-53-C-UNV-L840-CD1-U	5567	56.6	98
MTO	24SR-LD1-53-C-UNV-L850-CD1-U	5888	56.6	104
MTO	24SR-LD1-59-C-UNV-L830-CD1-U	5530	63.4	87
MTO	24SR-LD1-59-C-UNV-L835-CD1-U	5909	63.6	93
MTO	24SR-LD1-59-C-UNV-L840-CD1-U	6111	63.4	96
MTO	24SR-LD1-59-C-UNV-L850-CD1-U	6464	63.5	102
MTO	24SR-LD1-64-C-UNV-L830-CD1-U	6007	70.9	85
MTO	24SR-LD1-64-C-UNV-L835-CD1-U	6420	71.0	90
MTO	24SR-LD1-64-C-UNV-L840-CD1-U	6656	70.8	94
MTO	24SR-LD1-64-C-UNV-L850-CD1-U	7041	71.1	99

*Made to order (MTO) requires a typical four week lead time.

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic (Straight)	Delivered Lumens	Watts	Efficacy (LPW)
MTO	24SR-LD1-29-S-UNV-L830-CD1-U	2886	28.1	103
MTO	24SR-LD1-29-S-UNV-L835-CD1-U	2959	28.1	105
MTO	24SR-LD1-29-S-UNV-L840-CD1-U	3048	28.1	108
MTO	24SR-LD1-29-S-UNV-L850-CD1-U	3224	28.1	115
MTO	24SR-LD1-34-S-UNV-L830-CD1-U	3325	32.9	101
MTO	24SR-LD1-34-S-UNV-L835-CD1-U	3409	32.9	104
MTO	24SR-LD1-34-S-UNV-L840-CD1-U	3512	32.9	107
MTO	24SR-LD1-34-S-UNV-L850-CD1-U	3715	32.9	113
MTO	24SR-LD1-39-S-UNV-L830-CD1-U	3789	39.1	97
MTO	24SR-LD1-39-S-UNV-L835-CD1-U	3884	39.1	99
MTO	24SR-LD1-39-S-UNV-L840-CD1-U	4002	39.1	102
MTO	24SR-LD1-39-S-UNV-L850-CD1-U	4233	39.1	108
MTO	24SR-LD1-45-S-UNV-L830-CD1-U	4384	46.7	94
MTO	24SR-LD1-45-S-UNV-L835-CD1-U	4494	46.7	96
MTO	24SR-LD1-45-S-UNV-L840-CD1-U	4630	46.7	99
MTO	24SR-LD1-45-S-UNV-L850-CD1-U	4898	46.7	105
MTO	24SR-LD1-48-S-UNV-L830-CD1-U	4659	49.0	95
MTO	24SR-LD1-48-S-UNV-L835-CD1-U	4776	49.0	97
MTO	24SR-LD1-48-S-UNV-L840-CD1-U	4921	49.0	100
MTO	24SR-LD1-48-S-UNV-L850-CD1-U	5205	49.0	106
MTO	24SR-LD1-53-S-UNV-L830-CD1-U	5057	56.7	89
MTO	24SR-LD1-53-S-UNV-L835-CD1-U	5401	56.7	95
MTO	24SR-LD1-53-S-UNV-L840-CD1-U	5572	56.7	98
MTO	24SR-LD1-53-S-UNV-L850-CD1-U	5894	56.7	104
MTO	24SR-LD1-59-S-UNV-L830-CD1-U	5520	63.5	87
MTO	24SR-LD1-59-S-UNV-L835-CD1-U	5898	63.5	93
MTO	24SR-LD1-59-S-UNV-L840-CD1-U	6100	63.5	96
MTO	24SR-LD1-59-S-UNV-L850-CD1-U	6452	63.5	102
MTO	24SR-LD1-64-S-UNV-L830-CD1-U	5990	71.0	84
MTO	24SR-LD1-64-S-UNV-L835-CD1-U	6402	71.0	90
MTO	24SR-LD1-64-S-UNV-L840-CD1-U	6637	71.0	93
MTO	24SR-LD1-64-S-UNV-L850-CD1-U	7020	71.0	99

*Made to order (MTO) requires a typical four week lead time.

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	> 85%	> 154,000

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
Custom Color	STK-4-CC-*-10PK	10

*Custom color requires Roscolux numeric specification color code, consult factory for more information.

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

ORDERING INFORMATION

SAMPLE NUMBER: 24SR-LD1-48-C-UNV-L835-CD1-SVDP1-U

Rating
Blank=Standard
ATW-SW4= Chicago Rated [6]

Series [8]
24SR=2' x 4' SkyRidge Series

Air
[Blank]=Standard
A=Air (Vented) [7]

Lamp Type
LD1=LED 1.0

Stock Lumen Outputs
39=3900 Lumens
48=4800 Lumens [13]

MTO Lumen Outputs [4]
29=2900 Lumens [5], [12]
34=3400 Lumens [12]
45=4500 Lumens
53=5300 Lumens [13]
59=5900 Lumens [13]
64=6400 Lumens [13]

Reflector
C=Curved (Standard)
S=Straight

Optics
Blank=Standard

Voltage [1]
347V=347 Volt
UNV=Universal Voltage 120-277

Options
Emergency
EL7W=7-watt, 120V-277V emergency battery pack installed [2]
EL14W=14-watt 120V-277V emergency battery pack installed [2]
GTD2=Bodine Generator Transfer Device [17]
ETS2=IOTA Emergency Transfer Switch [17]

CCT
L830=3000K
L835=3500K
L840=4000K
L850=5000K

Flex [15]
Multiple Configurations Available

Driver Type
CD=0-10V Dimming Driver (10% - 100% Dimming)
HCD=0-10V Dimming Driver (1% - 100% Dimming) [16]
SD=Step-Dim Driver [11]
5LTD=Fifth Light DALI Driver [3] (10%- 100% Dimming)
5LTHD=Fifth Light DALI Driver [3] (1%- 100% Dimming)

Number of Drivers
1=1 Driver

Product Family
S=Integrated Sensor

Control Type
B=Sensor Mounting, No Sensor
V=Analog (0-10V) Output for Local Control [14]

Occupancy Technology
P=Passive Infrared

Sensing Technology
D=Dimming Daylight Harvesting (Closed Loop)

Coverage Pattern
1= ~144 Square Feet

SkyTrim [9]
TB=Tahitian Blue
PG=Primary Green
SO=Storaro Orange
PL=Pearl
BR=Belladonna Rose
MR=Medium Red
ST=Straw
CC=Custom [10]

Packaging
U=Unit Pack
PALC=Job Pack, in carton

ACCESSORIES

T3A END E.Q. BRACKET PARTS BAG (Standard with fixture)
DF-24-W=2' x 4' Drywall Frame Kit
SK-24-WT=2' x 4' Tall Surface Mount Kit
DF10P-C_=Decorator Dimmer, 0-10V
SF10P-_=Decorator Slide Dimmer, 0-10V
HHPRG-MS=Programming Remote for Integrated Sensor
ISHH-02=Personal Control Remote for Integrated Sensor

NOTES: [1] Products also available in non-US voltages and frequencies for international markets. [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. [3] Must be used in conjunction with a DALI control system. For complete DALI soluitions by Fifth Light, visit www.coopercontrol.com. [4] Made-to-order (MTO) requites four week lead time. [5] 2900 lumen option is not available with Step-Dim. [6] Chicago rated version does not allow for row mounting. [7] Air version is vented but does not meet air handling requirements. Air version is non-IC. Air version is not available with integrated sensor. [8] DesignLights Consortium™ Qualified and classified for DLC Standard (all lumen packages). Refer to www.designlights.org for details. [9] Fixtures using factory installed SkyTrim option are not DLC qualified. [10] Custom color must list Roscolux numeric color specification code. [11] 2900, 3400, 5900 and 6400 lumen packages are not available with Step-Dim driver. [12] 5LTD option is not available in 2900 and 3400 lumen packages. [13] 5LTHD not available in 4800, 5300, 5900 and 6400 lumen packages. [14] Integral sensor works only with "CD" driver and is factory prewired to the driver for stand-alone control. [15] Flex does not include dimming leads. Control leads provided by others. [16] HCD driver option is not available with 6400 lumen package. [17] Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating under emergency power.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

SHIPPING DATA

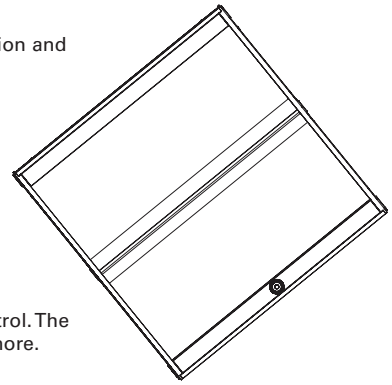
Catalog No.	Wt.
24SR-LD1-39	24 lbs.
24SR-LD1-48	24 lbs.

Powering Business Worldwide

Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

INTEGRATED SENSOR



Description
This innovative luminaire-integrated sensor control system is optimized for code-compliant occupancy detection and daylight harvesting – all from within the foot print of Metalux's award-winning recessed ambient luminaires.

No New Wires
An in-place fixture retrofit is all that's needed to meet most energy codes in commercial spaces. The sensor system is factory wired to the luminaire, switching on or off based on occupancy, and dimming the light when enough daylight is available.

Sophisticated lighting control without commissioning
The luminaire-integrated sensor system offers out-of-the-box operation using thoughtful default settings.

Flexibility and Individual Control
When the application demands more, the sensor system has the option to make changes using a remote control. The remote allows changes from the default settings for occupancy, target light level, preset lighting levels, and more.

Cost-effective, Stand-alone Operation
With a single product to mount and a single electrical connection to make, the Metalux luminaire with an integrated sensor system saves money on the total installed cost when occupancy or daylight harvesting controls are needed. The integrated sensor system works stand-alone, without the need for additional switches and dimmers. When manual-on, manual dimming or other code-required control schemes are needed, please see the comprehensive offering of Greengate and Fifth Light solutions from Cooper Controls at www.coopercontrol.com.

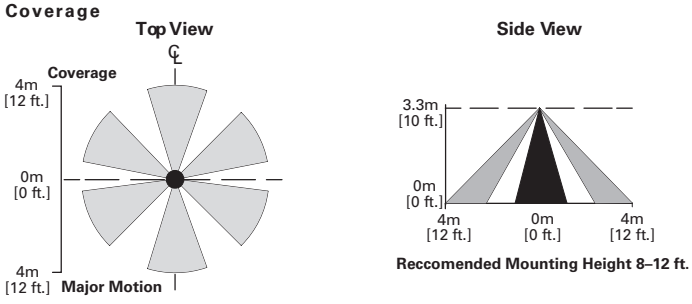
Metalux Integrated Sensor Sequence of Operation
The occupancy sensing portion of the sensor uses Passive Infrared (PIR) technology with Auto-on/Auto-off operation. The small lens in the center of the sensor directs the view of a passive infrared occupancy detector to sense occupants moving through the room. To trigger the light on, an occupant must cross at least two passive infrared beams. When motion in the coverage area ceases, the sensor logic concludes the room is unoccupied, and begins a count-down timer. By default, the timer is factory-set to 20 minutes, and can be adjusted to 5, 10, 15 and 20 minutes using the optional remote control, model number HHPRG-MS. Any motion detected during the count-down timer will cause the light to remain on and resets the timer. When motion is detected, a red LED will blink. In addition to the default on/off functionality, the sensor has an Energy Saver feature, where the light can be set to dim to a preset level after the sensor detects no occupancy for half of the count-down timer, when the timer is complete the lighting will change to the unoccupied setting. The Energy Saver feature works when the count-down timer is set to at least 15 minutes, and the preset level and feature are configured using the optional remote control. See the Sensor Programming Guide that comes with the HHPRG-MS remote for details on this feature. The sensitivity of the occupancy detection can be adjusted, using the HHPRG-MS remote. By default, the sensor operates at the full detection range shown on the coverage pattern diagram. Using the "LO" button on the HHPRG-MS remote, reduces the sensor detection range by 50%. Full coverage can be restored at any time by pressing the "HI" button on the remote. The red LED indicator will blink repeatedly to confirm any programming change.

The dimming daylight harvesting portion of the sensor uses a small photo sensor located next to the occupancy sensing lens. The sensor continuously measures the available light in the room, even when the fixture is turned off. This allows sensor to operate in one of three daylighting modes, where the artificial light from the paired Metalux luminaire can adjust the light based on the amount of ambient light from surrounding natural and artificial light sources. Since the sensor measures light from its luminaire along with other light sources, this sensor follows a closed-loop dimming daylight harvesting style. The first mode, Daytime, is active when the sensor detects light of at least 100 lux in the room. In Daytime mode, when the light is turned on after detecting occupancy, the sensor will begin balancing the luminaire light level relative to the total available light it measures. The default light balancing target in daytime mode is 500 lux. This level can be adjusted higher or lower using the optional HHPRG-MS remote, and pressing "SET" and then the "DO" (Daytime Occupied) button to store the new light level. Similarly, the Daytime Unoccupied, "DU" has a default of level of 0 lux, or off, but can be adjusted higher to prevent the lights from turning off completely when unoccupied. More details on this function are found in the Sensor Programming Guide for the HHPRG-MS remote.

The next two modes, Twilight and Nighttime, function in a similar way, allowing the artificial light to adjust to different levels based on the surroundings. While primarily for use in outdoor luminaires, these modes are available for use in areas with a wide range of natural light, including atriums, day lit stairwells, and rooms with large or continuous windows. The Twilight mode is active when the sensor detects 50-100 lux in the off position, and has a 300 lux default light balancing target. The Nighttime mode is active when the sensor detects less than 50 lux, and has a 250 lux default light balancing target. Like the Daytime mode, there are separate settings for Twilight Occupied ("TO"), Twilight Unoccupied ("TU"), Nighttime Occupied ("NO") and Nighttime Unoccupied ("NU") which can be adjusted and set using the optional HHPRG-MS remote.

In addition to programming the sensor, the optional HHPRG-MS remote can be used for personal control to adjust the lighting temporarily override the functions of the sensor temporarily. The remote has raise/lower buttons to adjust the light level for special tasks, as well as a power button to turn the lights on or off. Unless the SET button and another function is selected, any changes made using these buttons will revert to the programmed settings after the sensor has detected no occupancy for its programmed time out, and turned off the lighting. The next time the sensor detects occupancy, it will revert to its programmed settings for count-down timer and light balancing.

Coverage



Optional Remote Control

HHPRG-MS Remote

Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Powering Business Worldwide

Specifications and dimensions subject to change without notice.

DESCRIPTION

The SkyRidge™ transforms ambient lighting by perfectly blending a refined modern styling with our breakthrough WaveStream™ LED technology to deliver exceptional performance and superior energy savings. SkyRidge's advanced engineered LED system with superior optical design delivers an unparalleled combination of optimal light uniformity and exceptional efficiency for greater energy savings.

SkyRidge is compatible with all of today's popular ceiling systems and available in a variety of configurations for application versatility. Its perfect balance of form and function make it an ideal choice for commercial office spaces, schools, hospitals, retail and other indoor ambient applications.

Catalog #		Type
Project		
Comments		Date
Prepared by		

24SR LED

2' X 4' TROFFER LED MODULE

Specification Grade Troffer

SPECIFICATION FEATURES

Construction
Shallow 4.75" deep housing is extruded aluminum frame and injected molded composite end plates. End plates are securely attached with screws for strength and rigidity and the elimination of gaps. End plates have accessory grid-lock feature for safety and convenience. Four auxiliary fixture end suspension points are provided. Large access plate for supply connection.

Controls
The SkyRidge LED is Powered by Fifth Light, with a standard 0-10V continuous dimming driver that works with any 0-10V control/ dimmer. Combine with energy saving products like occupancy sensors, daylighting controls and lighting relay panels to maximize energy savings. In addition, the SkyRidge can include a factory-installed integrated sensor system for occupancy and daylight dimming control and manual control from an optional handheld remote. Or, specify the Digital Addressable Lighting Interface (DALI) drivers, dimmable down to 1% with the HD option, for use with Fifth Light controls. See ordering information for details on all three options.

Electrical
Long-life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3000K, 3500K, 4000K or 5000K with a typical CRI ≥ 85. Projected life is 60,000 hours at 84% lumen output. Electronic drivers are available for 120-277V applications.

Emergency Battery Pack Option
Optional 120v-277v integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

Driver Access
Drivers can be accessed via plenum.

Finish
Durable frame has high reflectance baked matte white enamel finish for luminous uniformity.

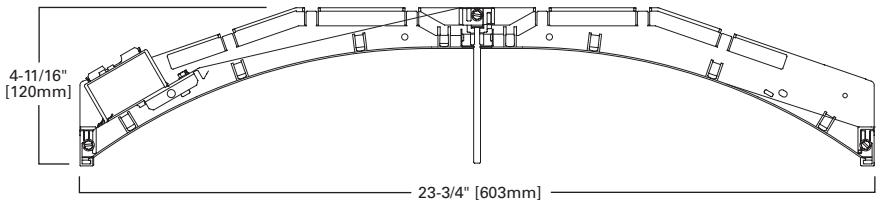
Optics
Precision formed optical assembly with positively retained high optical grade acrylic lens provides a directed optical distribution using WaveStream LED technology.

SkyTrim Accessory
Designed for an array of interior applications, SkyTrim is 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. It is ideal for spaces where color is necessary to provide visual cues, emphasize brand identity, directional awareness or simply as an artistic expression.

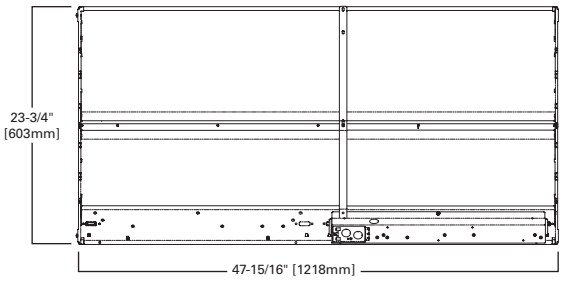
Compliance
Components are UL recognized. Indoor luminaires are cULus listed for 25° C ambient environments, RoHS compliant, and comply with IESNA LM-79. LEDs comply with LM-80 standards. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.

Warranty
Five year warranty.

CURVED

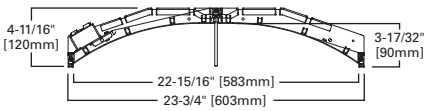


MOUNTING DATA

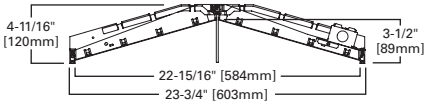


LAMP CONFIGURATIONS

CURVED



STRAIGHT



powered by fifthlight technology

CERTIFICATION DATA

cULus - 1598 and 2043**
Damp Location Listed
IC Rated
LM79/LM80 Compliant
ROHS Compliant
DesignLights Consortium® Qualified
NOM Compliant

*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.

LINEAR DISCONNECT
Safe and convenient means of disconnecting power

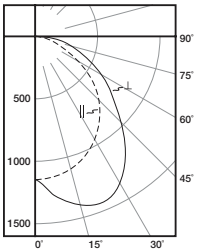
CEILING COMPATIBILITY

G
Grid/Lay-in
Standard

F
Drywall Frame
Kit

Ceiling Type	Trim Type
Exposed Grid	G
Concealed T	G or T
Slot Grid	G or T
Flange	*

PHOTOMETRICS



24SR-LD1-39-C-UNV-L835-CD1-U
Dimming Driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.6 x mounting height
Lumens: 3940
Input Watts: 38.8W
Efficacy: 102 LPW
Test Report: 22SR-LD1-39-C-UNV-L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across ⊥
0	1140	1140	1140
5	1140	1203	1251
10	1123	1270	1338
15	1097	1301	1400
20	1060	1311	1435
25	1012	1291	1421
30	951	1244	1355
35	883	1162	1247
40	804	1062	1111
45	717	954	970
50	621	840	834
55	513	724	702
60	402	609	592
65	299	502	486
70	213	408	393
75	143	321	303
80	91	238	205
85	47	134	111
90	0	0	0

Coefficients of Utilization

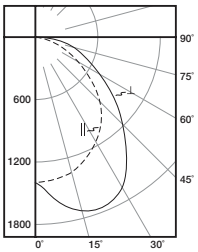
	Effective floor cavity reflectance				20%													
rc	80%				70%				50%			30%			10%			0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1063	27.0
0-40	1763	44.7
0-60	3060	77.7
0-90	3940	100.0
0-180	3940	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	1453	1934	1966
55	1282	1809	1754
65	1014	1703	1648
75	792	1778	1678
85	773	2204	1825



24SR-LD1-48-C-UNV-L835-CD1-U
Dimming Driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.6 x mounting height
Lumens: 4810
Input Watts: 49.1W
Efficacy: 98 LPW
Test Report: 22SR-LD1-48-C-UNV-L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across ⊥
0	1388	1388	1388
5	1389	1461	1524
10	1371	1547	1639
15	1338	1591	1718
20	1291	1605	1759
25	1230	1584	1741
30	1159	1520	1661
35	1071	1422	1523
40	976	1302	1354
45	867	1167	1180
50	746	1026	1015
55	616	881	854
60	481	742	722
65	359	614	596
70	251	497	483
75	170	396	376
80	107	293	256
85	57	167	133
90	0	0	0

Coefficients of Utilization

	Effective floor cavity reflectance				20%													
rc	80%				70%				50%			30%			10%			0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1298	27.0
0-40	2154	44.8
0-60	3734	77.6
0-90	4810	100.0
0-180	4810	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	1649	2220	2240
55	1444	2066	2003
65	1143	1954	1897
75	883	2058	1954
85	880	2577	2052

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (LPW)
MTO	24SR-LD1-29-C-UNV-L830-CD1-U	2867	28.2	102
MTO	24SR-LD1-29-C-UNV-L835-CD1-U	2998	28.2	106
MTO	24SR-LD1-29-C-UNV-L840-CD1-U	3034	28.2	108
MTO	24SR-LD1-29-C-UNV-L850-CD1-U	3209	28.1	114
MTO	24SR-LD1-34-C-UNV-L830-CD1-U	3302	33.1	100
MTO	24SR-LD1-34-C-UNV-L835-CD1-U	3451	33.0	104
MTO	24SR-LD1-34-C-UNV-L840-CD1-U	3503	33.0	106
MTO	24SR-LD1-34-C-UNV-L850-CD1-U	3705	33.1	112
MTO	24SR-LD1-39-C-UNV-L830-CD1-U	3713	39.1	95
Stock	24SR-LD1-39-C-UNV-L835-CD1-U	3940	38.8	102
Stock	24SR-LD1-39-C-UNV-L840-CD1-U	4019	39.2	102
MTO	24SR-LD1-39-C-UNV-L850-CD1-U	4251	39.2	108
MTO	24SR-LD1-45-C-UNV-L830-CD1-U	4288	46.7	92
MTO	24SR-LD1-45-C-UNV-L835-CD1-U	4538	46.2	98
MTO	24SR-LD1-45-C-UNV-L840-CD1-U	4656	46.3	101
MTO	24SR-LD1-45-C-UNV-L850-CD1-U	4925	46.8	105
MTO	24SR-LD1-48-C-UNV-L830-CD1-U	4512	49.0	92
Stock	24SR-LD1-48-C-UNV-L835-CD1-U	4810	49.1	98
Stock	24SR-LD1-48-C-UNV-L840-CD1-U	4944	49.0	101
MTO	24SR-LD1-48-C-UNV-L850-CD1-U	5230	49.0	107
MTO	24SR-LD1-53-C-UNV-L830-CD1-U	5053	56.6	89
MTO	24SR-LD1-53-C-UNV-L835-CD1-U	5396	56.6	95
MTO	24SR-LD1-53-C-UNV-L840-CD1-U	5567	56.6	98
MTO	24SR-LD1-53-C-UNV-L850-CD1-U	5888	56.6	104
MTO	24SR-LD1-59-C-UNV-L830-CD1-U	5530	63.4	87
MTO	24SR-LD1-59-C-UNV-L835-CD1-U	5909	63.6	93
MTO	24SR-LD1-59-C-UNV-L840-CD1-U	6111	63.4	96
MTO	24SR-LD1-59-C-UNV-L850-CD1-U	6464	63.5	102
MTO	24SR-LD1-64-C-UNV-L830-CD1-U	6007	70.9	85
MTO	24SR-LD1-64-C-UNV-L835-CD1-U	6420	71.0	90
MTO	24SR-LD1-64-C-UNV-L840-CD1-U	6656	70.8	94
MTO	24SR-LD1-64-C-UNV-L850-CD1-U	7041	71.1	99

*Made to order (MTO) requires a typical four week lead time.

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic (Straight)	Delivered Lumens	Watts	Efficacy (LPW)
MTO	24SR-LD1-29-S-UNV-L830-CD1-U	2886	28.1	103
MTO	24SR-LD1-29-S-UNV-L835-CD1-U	2959	28.1	105
MTO	24SR-LD1-29-S-UNV-L840-CD1-U	3048	28.1	108
MTO	24SR-LD1-29-S-UNV-L850-CD1-U	3224	28.1	115
MTO	24SR-LD1-34-S-UNV-L830-CD1-U	3325	32.9	101
MTO	24SR-LD1-34-S-UNV-L835-CD1-U	3409	32.9	104
MTO	24SR-LD1-34-S-UNV-L840-CD1-U	3512	32.9	107
MTO	24SR-LD1-34-S-UNV-L850-CD1-U	3715	32.9	113
MTO	24SR-LD1-39-S-UNV-L830-CD1-U	3789	39.1	97
MTO	24SR-LD1-39-S-UNV-L835-CD1-U	3884	39.1	99
MTO	24SR-LD1-39-S-UNV-L840-CD1-U	4002	39.1	102
MTO	24SR-LD1-39-S-UNV-L850-CD1-U	4233	39.1	108
MTO	24SR-LD1-45-S-UNV-L830-CD1-U	4384	46.7	94
MTO	24SR-LD1-45-S-UNV-L835-CD1-U	4494	46.7	96
MTO	24SR-LD1-45-S-UNV-L840-CD1-U	4630	46.7	99
MTO	24SR-LD1-45-S-UNV-L850-CD1-U	4898	46.7	105
MTO	24SR-LD1-48-S-UNV-L830-CD1-U	4659	49.0	95
MTO	24SR-LD1-48-S-UNV-L835-CD1-U	4776	49.0	97
MTO	24SR-LD1-48-S-UNV-L840-CD1-U	4921	49.0	100
MTO	24SR-LD1-48-S-UNV-L850-CD1-U	5205	49.0	106
MTO	24SR-LD1-53-S-UNV-L830-CD1-U	5057	56.7	89
MTO	24SR-LD1-53-S-UNV-L835-CD1-U	5401	56.7	95
MTO	24SR-LD1-53-S-UNV-L840-CD1-U	5572	56.7	98
MTO	24SR-LD1-53-S-UNV-L850-CD1-U	5894	56.7	104
MTO	24SR-LD1-59-S-UNV-L830-CD1-U	5520	63.5	87
MTO	24SR-LD1-59-S-UNV-L835-CD1-U	5898	63.5	93
MTO	24SR-LD1-59-S-UNV-L840-CD1-U	6100	63.5	96
MTO	24SR-LD1-59-S-UNV-L850-CD1-U	6452	63.5	102
MTO	24SR-LD1-64-S-UNV-L830-CD1-U	5990	71.0	84
MTO	24SR-LD1-64-S-UNV-L835-CD1-U	6402	71.0	90
MTO	24SR-LD1-64-S-UNV-L840-CD1-U	6637	71.0	93
MTO	24SR-LD1-64-S-UNV-L850-CD1-U	7020	71.0	99

*Made to order (MTO) requires a typical four week lead time.

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	> 85%	> 154,000

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
Custom Color	STK-4-CC-*-10PK	10

*Custom color requires Roscolux numeric specification color code, consult factory for more information.

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

ORDERING INFORMATION

SAMPLE NUMBER: 24SR-LD1-48-C-UNV-L835-CD1-SVDP1-U

Rating
Blank=Standard
ATW-SW4= Chicago Rated [6]

Series [8]
24SR=2' x 4' SkyRidge Series

Air
[Blank]=Standard
A=Air (Vented) [7]

Lamp Type
LD1=LED 1.0

Stock Lumen Outputs
39=3900 Lumens
48=4800 Lumens [13]

MTO Lumen Outputs [4]
29=2900 Lumens [5], [12]
34=3400 Lumens [12]
45=4500 Lumens
53=5300 Lumens [13]
59=5900 Lumens [13]
64=6400 Lumens [13]

Reflector
C=Curved (Standard)
S=Straight

Optics
Blank=Standard

Voltage [1]
347V=347 Volt
UNV=Universal Voltage 120-277

Options
Emergency
EL7W=7-watt, 120V-277V emergency battery pack installed [2]
EL14W=14-watt 120V-277V emergency battery pack installed [2]
GTD2=Bodine Generator Transfer Device [17]
ETS2=IOTA Emergency Transfer Switch [17]

CCT
L830=3000K
L835=3500K
L840=4000K
L850=5000K

Flex [15]
Multiple Configurations Available

Driver Type
CD=0-10V Dimming Driver (10% - 100% Dimming)
HCD=0-10V Dimming Driver (1% - 100% Dimming) [16]
SD=Step-Dim Driver [11]
5LTD=Fifth Light DALI Driver [3] (10%- 100% Dimming)
5LTHD=Fifth Light DALI Driver [3] (1%- 100% Dimming)

Number of Drivers
1=1 Driver

Product Family
S=Integrated Sensor

Control Type
B=Sensor Mounting, No Sensor
V=Analog (0-10V) Output for Local Control [14]

Occupancy Technology
P=Passive Infrared

Sensing Technology
D=Dimming Daylight Harvesting (Closed Loop)

Coverage Pattern
1= ~144 Square Feet

SkyTrim [9]
TB=Tahitian Blue
PG=Primary Green
SO=Storaro Orange
PL=Pearl
BR=Belladonna Rose
MR=Medium Red
ST=Straw
CC=Custom [10]

Packaging
U=Unit Pack
PALC=Job Pack, in carton

ACCESSORIES

T3A END E.Q. BRACKET PARTS BAG (Standard with fixture)
DF-24-W=2' x 4' Drywall Frame Kit
SK-24-WT=2' x 4' Tall Surface Mount Kit
DF10P-C_=Decorator Dimmer, 0-10V
SF10P-_=Decorator Slide Dimmer, 0-10V
HHPRG-MS=Programming Remote for Integrated Sensor
ISHH-02=Personal Control Remote for Integrated Sensor

NOTES: [1] Products also available in non-US voltages and frequencies for international markets. [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. [3] Must be used in conjunction with a DALI control system. For complete DALI soluitions by Fifth Light, visit www.coopercontrol.com. [4] Made-to-order (MTO) requites four week lead time. [5] 2900 lumen option is not available with Step-Dim. [6] Chicago rated version does not allow for row mounting. [7] Air version is vented but does not meet air handling requirements. Air version is non-IC. Air version is not available with integrated sensor. [8] DesignLights Consortium™ Qualified and classified for DLC Standard (all lumen packages). Refer to www.designlights.org for details. [9] Fixtures using factory installed SkyTrim option are not DLC qualified. [10] Custom color must list Roscolux numeric color specification code. [11] 2900, 3400, 5900 and 6400 lumen packages are not available with Step-Dim driver. [12] 5LTD option is not available in 2900 and 3400 lumen packages. [13] 5LTHD not available in 4800, 5300, 5900 and 6400 lumen packages. [14] Integral sensor works only with "CD" driver and is factory prewired to the driver for stand-alone control. [15] Flex does not include dimming leads. Control leads provided by others. [16] HCD driver option is not available with 6400 lumen package. [17] Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating under emergency power.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

SHIPPING DATA

Catalog No.	Wt.
24SR-LD1-39	24 lbs.
24SR-LD1-48	24 lbs.

Powering Business Worldwide

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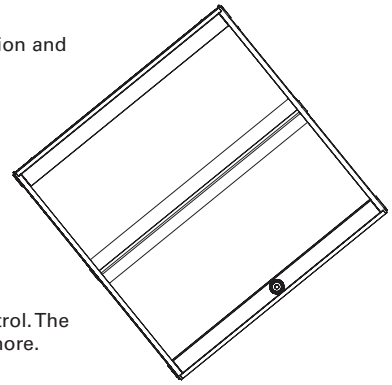
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

INTEGRATED SENSOR



Description
This innovative luminaire-integrated sensor control system is optimized for code-compliant occupancy detection and daylight harvesting – all from within the foot print of Metalux's award-winning recessed ambient luminaires.

No New Wires
An in-place fixture retrofit is all that's needed to meet most energy codes in commercial spaces. The sensor system is factory wired to the luminaire, switching on or off based on occupancy, and dimming the light when enough daylight is available.

Sophisticated lighting control without commissioning
The luminaire-integrated sensor system offers out-of-the-box operation using thoughtful default settings.

Flexibility and Individual Control
When the application demands more, the sensor system has the option to make changes using a remote control. The remote allows changes from the default settings for occupancy, target light level, preset lighting levels, and more.

Cost-effective, Stand-alone Operation
With a single product to mount and a single electrical connection to make, the Metalux luminaire with an integrated sensor system saves money on the total installed cost when occupancy or daylight harvesting controls are needed. The integrated sensor system works stand-alone, without the need for additional switches and dimmers. When manual-on, manual dimming or other code-required control schemes are needed, please see the comprehensive offering of Greengate and Fifth Light solutions from Cooper Controls at www.coopercontrol.com.

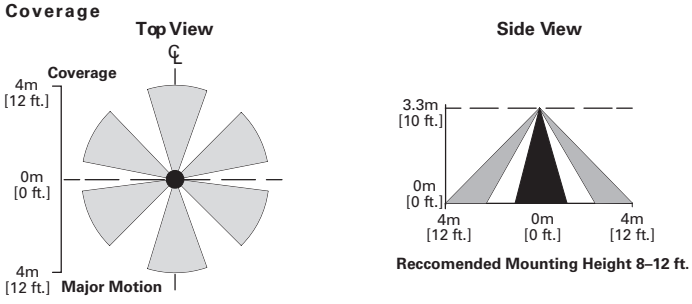
Metalux Integrated Sensor Sequence of Operation
The occupancy sensing portion of the sensor uses Passive Infrared (PIR) technology with Auto-on/Auto-off operation. The small lens in the center of the sensor directs the view of a passive infrared occupancy detector to sense occupants moving through the room. To trigger the light on, an occupant must cross at least two passive infrared beams. When motion in the coverage area ceases, the sensor logic concludes the room is unoccupied, and begins a count-down timer. By default, the timer is factory-set to 20 minutes, and can be adjusted to 5, 10, 15 and 20 minutes using the optional remote control, model number HHPRG-MS. Any motion detected during the count-down timer will cause the light to remain on and resets the timer. When motion is detected, a red LED will blink. In addition to the default on/off functionality, the sensor has an Energy Saver feature, where the light can be set to dim to a preset level after the sensor detects no occupancy for half of the count-down timer, when the timer is complete the lighting will change to the unoccupied setting. The Energy Saver feature works when the count-down timer is set to at least 15 minutes, and the preset level and feature are configured using the optional remote control. See the Sensor Programming Guide that comes with the HHPRG-MS remote for details on this feature. The sensitivity of the occupancy detection can be adjusted, using the HHPRG-MS remote. By default, the sensor operates at the full detection range shown on the coverage pattern diagram. Using the "LO" button on the HHPRG-MS remote, reduces the sensor detection range by 50%. Full coverage can be restored at any time by pressing the "HI" button on the remote. The red LED indicator will blink repeatedly to confirm any programming change.

The dimming daylight harvesting portion of the sensor uses a small photo sensor located next to the occupancy sensing lens. The sensor continuously measures the available light in the room, even when the fixture is turned off. This allows sensor to operate in one of three daylighting modes, where the artificial light from the paired Metalux luminaire can adjust the light based on the amount of ambient light from surrounding natural and artificial light sources. Since the sensor measures light from its luminaire along with other light sources, this sensor follows a closed-loop dimming daylight harvesting style. The first mode, Daytime, is active when the sensor detects light of at least 100 lux in the room. In Daytime mode, when the light is turned on after detecting occupancy, the sensor will begin balancing the luminaire light level relative to the total available light it measures. The default light balancing target in daytime mode is 500 lux. This level can be adjusted higher or lower using the optional HHPRG-MS remote, and pressing "SET" and then the "DO" (Daytime Occupied) button to store the new light level. Similarly, the Daytime Unoccupied, "DU" has a default of level of 0 lux, or off, but can be adjusted higher to prevent the lights from turning off completely when unoccupied. More details on this function are found in the Sensor Programming Guide for the HHPRG-MS remote.

The next two modes, Twilight and Nighttime, function in a similar way, allowing the artificial light to adjust to different levels based on the surroundings. While primarily for use in outdoor luminaires, these modes are available for use in areas with a wide range of natural light, including atriums, day lit stairwells, and rooms with large or continuous windows. The Twilight mode is active when the sensor detects 50-100 lux in the off position, and has a 300 lux default light balancing target. The Nighttime mode is active when the sensor detects less than 50 lux, and has a 250 lux default light balancing target. Like the Daytime mode, there are separate settings for Twilight Occupied ("TO"), Twilight Unoccupied ("TU"), Nighttime Occupied ("NO") and Nighttime Unoccupied ("NU") which can be adjusted and set using the optional HHPRG-MS remote.

In addition to programming the sensor, the optional HHPRG-MS remote can be used for personal control to adjust the lighting temporarily override the functions of the sensor temporarily. The remote has raise/lower buttons to adjust the light level for special tasks, as well as a power button to turn the lights on or off. Unless the SET button and another function is selected, any changes made using these buttons will revert to the programmed settings after the sensor has detected no occupancy for its programmed time out, and turned off the lighting. The next time the sensor detects occupancy, it will revert to its programmed settings for count-down timer and light balancing.

Coverage



Optional Remote Control

HHPRG-MS Remote

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