

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.

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

Equipped standard with a 0-10V continuous dimming driver that works with any standard 0-10V control/dimmer. Dimming range is 5% to 100%; varies by control device. Combine with energy-saving products like occupancy sensors, daylighting controls, and lighting relay panels from Cooper Controls (www.coopercontrol.com) to maximize energy savings.

Electrical

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

Driver Access

Drivers can be accessed via plenum.

Finish

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

Catalog #		Type	
Project			
Comments		Date	
Prepared by			

Optics

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

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

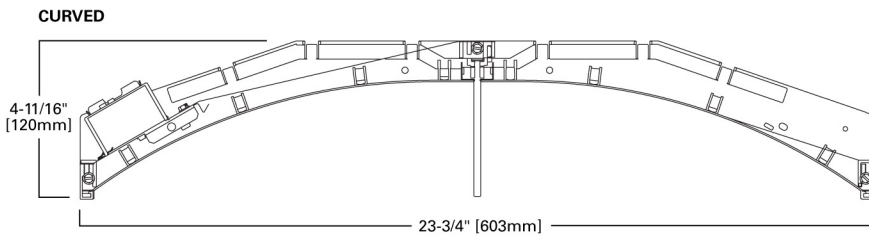
Five year warranty.



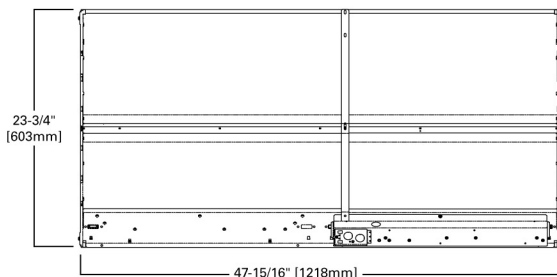
**24SR
LED**

**2' X 4' TROFFER
LED MODULE**

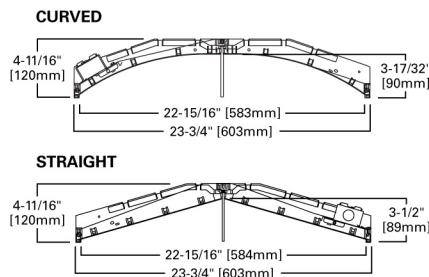
Specification Grade Troffer



MOUNTING DATA



LAMP CONFIGURATIONS



CEILING COMPATIBILITY

G	F	Ceiling Type	Trim Type
Grid/Lay-in Standard	Drywall Frame Kit	Exposed Grid	G
		Concealed T	G or T
		Slot Grid	G or T
		Flange	*

CERTIFICATION DATA

- cULus - Damp Location
- IC Rated
- LM79/LM80 Compliant
- ROHS Compliant
- DesignLights™ Consortium Qualified
- NOM Compliant
- CA Title 24

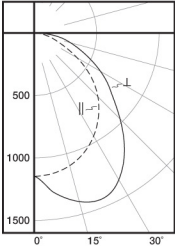
*See Drywall Frame Kit Accessory in Ordering Information section.



Specifications and dimensions subject to change without notice.
Consult your representative for additional options and finishes.

PHOTOMETRICS

24SR LED 2' X 4'



24SR-LD1-39-C-UNV-L835-CD1-U
Dimming Driver
Linear LED 3500K
Spacing criterion:
(II) 1.2 x mounting
height, (L) 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

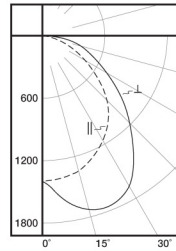
rc	Effective floor cavity reflectance																	
	80%			70%			50%			30%			10%			0%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
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, (L) 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

rc	Effective floor cavity reflectance																	
	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

LUMEN MAINTENANCE

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

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

24SR LED 2' X 4'

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-LD1-34-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-LD1-39-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-LD1-45-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-LD1-48-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

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-LD1-34-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	3572	32.9	107
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-LD1-45-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-LD1-48-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

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

ORDERING INFORMATION

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

Rating Blank=Standard ATW-SW4= Chicago Rated ⁽⁸⁾	Lamp Type LD1=LED 1.0	Optics Blank=Standard	Driver Type⁽⁵⁾ CD=0-10V Dimming Driver (Standard) 5LTD=Fifth Light (DALI) Driver ⁽³⁾	Packaging U=Unit Pack PALC=Job Pack, in carton
Series⁽¹⁰⁾ 24SR=2' x 4' SkyRidge Series	Stock Lumen Outputs 39=3900 Lumens 48=4800 Lumens MTO Lumen Outputs⁽⁶⁾ 29=2900 Lumens ⁽⁷⁾ 34=3400 Lumens 45=4500 Lumens	Voltage⁽¹¹⁾ 347V=347 Volt UNV=Universal Voltage 120-277	Number of Drivers 1=1 Driver	
Air [Blank]=Standard A=Air (Vented) ⁽⁹⁾	Reflector C=Curved (Standard) S=Straight	Options Emergency EL=Emergency Installed, 700 Lumens ⁽⁴⁾ EL14=Emergency Installed, 1400 Lumens ^{(2), (4)} EL10W=Emergency Installed, 10 Watts ⁽¹¹⁾ CCT L830=3000K L835=3500K L840=4000K Flex Multiple Configurations Available	ACCESSORIES T3A END E.Q. BRACKET PARTS BAG (Standard with fixture) DF-24-W=2' x 4' Drywall Frame Kit	

NOTES: ⁽¹⁾ Products also available in non-US voltages and frequencies for international markets. ⁽²⁾ Must specify voltage (120V or 277V) when selecting EL option. ⁽³⁾ For a complete listing of Fifth Light Technology products and other solutions from Cooper Controls, visit www.coopercontrol.com. ⁽⁴⁾ EL options are non-integral. ⁽⁵⁾ Call factory for step-dimming options. ⁽⁶⁾ Made-to-order (MTO) requires four week lead time. ⁽⁷⁾ 2900 lumen option is not available with Fifth Light (DALI) driver. ⁽⁸⁾ Chicago rated version does not allow for row mounting. ⁽⁹⁾ Air version is vented but does not meet air handling requirements. Air version is non-IC. ⁽¹⁰⁾ DesignLights™ Consortium Qualified (all lumen packages). Refer to www.designlights.org Qualified Products List under Family Models for details. ⁽¹¹⁾ For delivered lumens, take lumens per watt of desired fixture and multiply by 10 watts (100 lp/W x 10 = 1000 lumens delivered).

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

SHIPPING DATA

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

Specifications and dimensions subject to change without notice.