

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		

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.

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.



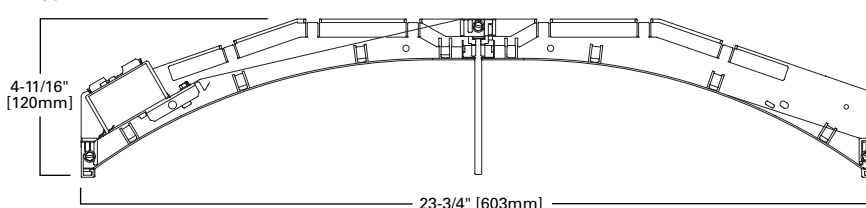
**22SR
LED**

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

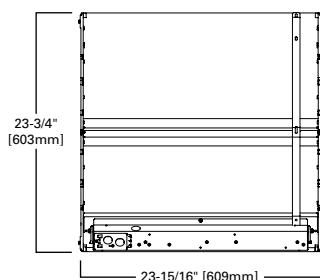
Specification Grade Troffer



CURVED

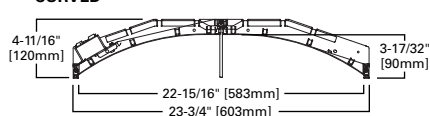


MOUNTING DATA

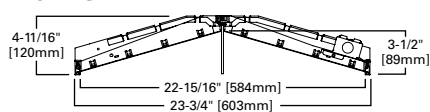


LAMP CONFIGURATIONS



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STRAIGHT



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	*

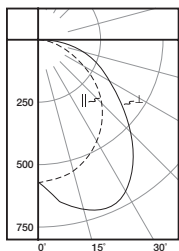
CERTIFICATION DATA

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.

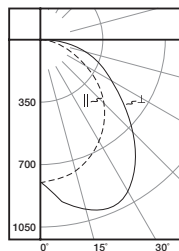


PHOTOMETRICS



22SR-LD1-20-C-UNV-L835-CD1-U
 Dimming Driver
 Linear LED 3500K
 Spacing criterion:
 (||) 1.2 x mounting
 height, (⊥) 1.6 x
 mounting height
 Lumens: 2046
 Input Watts: 19.9W
 Efficacy: 103 LPW
 Test Report:
 22SR-LD1-20-C-UNV-
 L835-CD1-U.IES

Candlepower			
Angle	Along	45°	Across ⊥
0	572	572	572
5	567	611	634
10	559	644	678
15	543	658	709
20	524	659	728
25	499	647	727
30	469	623	700
35	435	584	650
40	396	536	585
45	353	484	515
50	306	431	446
55	257	378	383
60	207	327	327
65	160	278	277
70	119	231	230
75	86	187	182
80	57	138	124
85	30	75	63
90	0	0	0



22SR-LD1-29-C-UNV-L835-CD1-U
 Dimming Driver
 Linear LED 3500K
 Spacing criterion:
 (||) 1.2 x mounting
 height, (⊥) 1.6 x
 mounting height
 Lumens: 2935
 Input Watts: 30.0W
 Efficacy: 98 LPW
 Test Report:
 22SR-LD1-29-C-UNV-
 L835-CD1-U.IES

Candlepower			
Angle	Along	45°	Across ⊥
0	818	818	818
5	811	869	904
10	799	918	965
15	778	938	1011
20	749	940	1039
25	715	924	1039
30	672	890	1001
35	624	836	933
40	568	768	840
45	507	693	738
50	438	617	641
55	369	542	549
60	299	469	470
65	231	398	397
70	174	333	332
75	124	268	265
80	83	200	180
85	45	113	94
90	0	0	0

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance																	
	80%				70%				50%				30%					
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance																	
	80%				70%				50%				30%					
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	533	26.1
0-40	886	43.3
0-60	1556	76.0
0-90	2046	100.0
0-180	2046	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	1343	1841	1959
55	1205	1773	1796
65	1018	1769	1763
75	894	1944	1892
85	926	2315	1944

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	762	26.0
0-40	1267	43.2
0-60	2227	75.9
0-90	2935	100.0
0-180	2935	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	1929	2636	2808
55	1731	2542	2575
65	1470	2533	2527
75	1289	2785	2754
85	1389	3488	2901

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	> 84%	> 144,000

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic (Curved)	Delivered Lumens	Watts	Efficacy (LPW)
MTO	22SR-LD1-20-C-UNV-L830-CD1-U	1981	19.9	99
Stock	22SR-LD1-20-C-UNV-L835-CD1-U	2046	19.9	103
Stock	22SR-LD1-20-C-UNV-L840-CD1-U	2095	19.9	105
MTO	22SR-LD1-25-C-UNV-L830-CD1-U	2464	25.5	97
MTO	22SR-LD1-25-C-UNV-L835-CD1-U	2550	25.5	100
MTO	22SR-LD1-25-C-UNV-L840-CD1-U	2617	25.5	103
MTO	22SR-LD1-29-C-UNV-L830-CD1-U	2820	29.9	94
Stock	22SR-LD1-29-C-UNV-L835-CD1-U	2935	30.0	98
Stock	22SR-LD1-29-C-UNV-L840-CD1-U	3003	30.0	100

Stock or MTO*	Catalog Logic (Straight)	Delivered Lumens	Watts	Efficacy (LPW)
MTO	22SR-LD1-20-S-UNV-L830-CD1-U	1977	19.7	101
MTO	22SR-LD1-20-S-UNV-L835-CD1-U	2083	19.7	106
MTO	22SR-LD1-20-S-UNV-L840-CD1-U	2140	19.7	109
MTO	22SR-LD1-25-S-UNV-L830-CD1-U	2467	25.1	98
MTO	22SR-LD1-25-S-UNV-L835-CD1-U	2597	25.1	103
MTO	22SR-LD1-25-S-UNV-L840-CD1-U	2672	25.1	106
MTO	22SR-LD1-29-S-UNV-L830-CD1-U	2824	29.6	95
MTO	22SR-LD1-29-S-UNV-L835-CD1-U	2984	29.7	101
MTO	22SR-LD1-29-S-UNV-L840-CD1-U	3075	29.7	104

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

ORDERING INFORMATION

SAMPLE NUMBER: 22SR-LD1-29-C-UNV-L835-CD1-U

Rating Blank=Standard ATW-SW4= Chicago Rated ⁽⁷⁾	Lamp Type LD1=LED 1.0	Optics Blank=Standard	Driver Type ⁽⁶⁾ CD=0-10V Dimming Driver (Standard)	Packaging U=Unit Pack PALC=Job Pack, in carton
Series ⁽⁹⁾ 22SR=2' x 2' SkyRidge Series	Stock Lumen Outputs ⁽⁵⁾ 20=2000 Lumens 29=2900 Lumens MTO Lumen Outputs ⁽⁶⁾ 25=2500 Lumens	Voltage ⁽¹⁾ 347V=347 Volt UNV=Universal Voltage 120-277	Number of Drivers 1=1 Driver	
Air [Blank]=Standard A=Air (Vented) ⁽⁸⁾	Reflector C=Curved (Standard) S=Straight	Options Emergency EL=Emergency Installed, 700 Lumens ⁽⁴⁾ EL14=Emergency Installed, 1400 Lumens ^{(2), (4)} CCT L830=3000K L835=3500K L840=4000K Flex Multiple Configurations Available	ACCESSORIES T3A END E.Q. BRACKET PARTS BAG (Standard with fixture) DF-22-W=2' x 2' 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⁾ 2' x 2' SkyRidge is not available with a Fifth Light (DALI) driver. ⁽⁴⁾ EL options are non-integral. ⁽⁵⁾ Call factory for step-dimming options. ⁽⁶⁾ Made-to-order (MTO) requires four week lead time. ⁽⁷⁾ Chicago rated version does not allow for row mounting. ⁽⁸⁾ Air version is vented but does not meet air handling requirements. Air version is non-IC. ⁽⁹⁾ DesignLights™ Consortium Qualified (all lumen packages). Refer to www.designlights.org Qualified Products List under Family Models for details.

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

SHIPPING DATA

Catalog No.	Wt.
22SR-LD1-20	12 lbs.
22SR-LD1-29	12 lbs.