

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P188405

Luminaire Tested: **22SR-LD2-19-C-UNV-L850-CD1-ST-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188405  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24794)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22SR-LD2-19-C-UNV-L850-CD1-ST-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STRAW SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

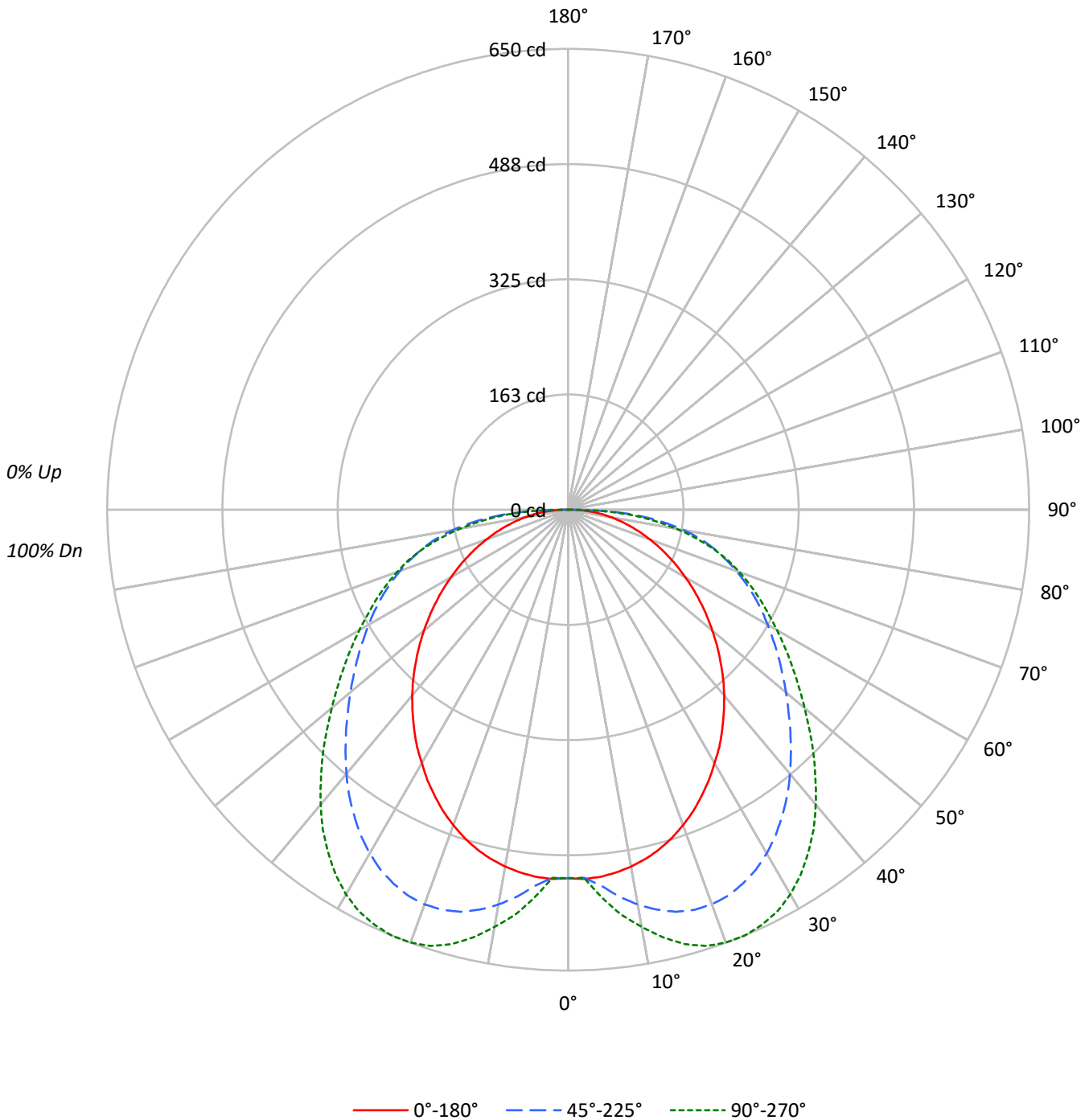
Lumens per Lamp: N/A  
Luminaire Lumens: 1968.0 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.62 / 1.55  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	83	80
2	97	87	80	74	94	86	79	73	82	76	71	79	74	69	75	71	68	65
3	88	76	67	60	85	75	66	60	72	64	59	69	63	58	66	61	57	54
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	60	50	43	71	59	50	43	56	49	42	54	47	42	52	46	42	39
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	47	41	36	34
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1523	1523	1523
5°	1529	1565	1616
10°	1521	1683	1777
15°	1504	1781	1924
20°	1476	1847	2026
25°	1439	1882	2088
30°	1396	1894	2119
35°	1354	1883	2111
40°	1309	1861	2077
45°	1259	1836	2028
50°	1209	1827	1983
55°	1163	1848	1970
60°	1118	1903	1992
65°	1081	2006	2066
70°	1049	2161	2198
75°	1034	2412	2389
80°	1039	2789	2617
85°	1096	3436	3096



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.7	2.6
10°-20°	162.7	8.3
20°-30°	260.7	13.2
30°-40°	318.3	16.2
40°-50°	327.8	16.7
50°-60°	303.9	15.4
60°-70°	260.5	13.2
70°-80°	195.9	10.0
80°-90°	86.5	4.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	475.0	24.1
0°-40°	793.4	40.3
0°-60°	1425.0	72.4
0°-90°	1968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1968.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	520	520	532	544	550	49
15°	496	532	587	621	634	140
25°	445	510	582	629	646	205
35°	378	453	526	573	590	237
45°	304	378	443	478	489	235
55°	228	303	362	381	386	204
65°	156	236	289	296	298	155
75°	91	167	213	212	211	97
85°	33	77	102	94	92	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	519.8	519.8	519.8	519.8	519.8	519.8	519.8	519.8	519.8	519.8	519.8
2.5°	521.3	520.5	519.8	520.5	519.8	519.8	519.1	518.4	519.8	519.8	519.8
5°	519.8	519.1	518.4	519.1	519.1	520.5	521.3	524.9	529.2	532.1	536.5
7.5°	516.2	515.5	514.7	516.9	519.8	524.9	530.7	537.9	544.5	550.3	555.3
10°	511.1	510.4	510.4	515.5	522.7	532.1	540.1	548.8	557.5	565.5	572.7
12.5°	504.6	504.6	505.3	514.7	525.6	537.2	546.6	557.5	568.4	577.8	586.5
15°	495.9	495.2	498.8	511.8	525.6	538.7	551.0	563.3	576.4	587.2	596.7
17.5°	485.7	485.0	492.3	508.2	522.7	537.9	552.4	566.2	580.0	591.6	602.5
20°	473.4	473.4	483.6	502.4	518.4	535.0	550.3	564.8	580.0	592.3	603.9
22.5°	460.4	461.1	474.1	493.7	511.1	528.5	544.5	560.4	575.6	589.4	601.0
25°	445.1	446.6	461.8	482.1	501.0	519.1	535.8	552.4	568.4	582.2	594.5
27.5°	429.9	431.4	449.5	469.8	489.4	507.5	524.9	542.3	559.0	572.7	585.1
30°	412.5	416.1	434.3	455.3	475.6	493.7	511.8	529.2	545.2	559.7	572.7
32.5°	396.6	399.5	419.8	440.1	461.1	479.2	497.3	514.0	530.0	544.5	556.8
35°	378.4	382.8	403.1	423.4	443.7	461.8	479.9	496.6	512.6	526.3	538.7
37.5°	360.3	366.1	385.7	406.7	426.3	444.4	462.5	478.5	494.4	507.5	519.1
40°	342.2	347.3	367.6	387.9	408.2	425.6	443.0	458.2	473.4	486.5	497.3
42.5°	323.3	329.1	349.4	369.0	388.6	406.0	423.4	438.6	453.1	464.7	474.9
45°	303.8	311.0	330.6	350.2	369.7	387.1	403.8	418.3	431.4	443.0	452.4
47.5°	284.9	292.9	312.5	332.0	350.9	367.6	384.2	398.7	411.1	421.2	429.9
50°	265.3	274.8	293.6	312.5	332.0	348.7	364.7	377.7	390.8	400.9	408.2
52.5°	246.5	255.9	275.5	294.3	313.2	329.9	345.8	359.6	371.2	380.6	388.6
55°	227.6	237.8	257.4	276.2	295.1	311.7	327.7	340.7	352.3	361.8	368.3
57.5°	209.5	220.4	239.2	258.8	277.7	294.3	310.3	323.3	334.2	342.9	349.4
60°	190.7	203.0	221.8	240.7	260.3	277.7	292.9	305.9	316.8	324.8	330.6
62.5°	173.3	185.6	204.4	224.0	243.6	261.0	276.2	289.3	299.4	307.4	311.7
65°	155.9	168.9	187.8	207.3	226.9	244.3	259.5	272.6	282.0	289.3	293.6
67.5°	139.2	152.2	171.1	190.7	210.2	227.6	242.9	255.2	264.6	271.1	274.0
70°	122.5	135.6	154.4	174.0	192.8	211.0	226.2	237.8	247.2	252.3	254.5
72.5°	106.6	120.3	138.5	156.6	176.2	193.6	208.8	221.1	228.4	232.7	236.3
75°	91.3	104.4	121.8	139.9	158.0	176.2	190.7	201.5	208.8	213.1	214.6
77.5°	76.1	89.2	105.8	122.5	140.6	157.3	171.8	182.0	187.8	191.4	193.6
80°	61.6	73.2	88.4	104.4	121.1	136.3	149.3	158.8	163.8	165.3	165.3
82.5°	47.8	57.3	70.3	84.1	98.6	112.4	124.0	131.2	134.8	135.6	134.8
85°	32.6	39.1	49.3	60.2	71.0	83.4	93.5	98.6	100.8	102.2	100.8
87.5°	17.4	19.6	25.4	31.9	39.9	47.8	54.4	58.0	60.2	60.2	60.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	519.8	519.8	519.8	519.8	519.8	519.8	519.8	519.8
2.5°	519.8	519.8	520.5	519.8	519.8	520.5	519.8	519.8
5°	538.7	540.1	543.7	545.2	545.9	548.1	548.1	549.5
7.5°	559.0	562.6	566.2	569.1	571.3	574.2	574.9	576.4
10°	577.8	582.2	586.5	590.9	593.8	595.2	596.7	597.4
12.5°	593.0	598.8	604.6	609.0	612.6	614.8	617.0	617.7
15°	603.9	611.9	618.4	624.2	627.8	630.7	632.9	634.4
17.5°	611.2	619.9	627.1	633.6	638.0	640.9	643.8	645.2
20°	613.3	622.0	630.7	637.3	642.3	646.0	648.1	649.6
22.5°	611.2	620.6	629.3	636.5	641.6	646.0	648.1	650.3
25°	605.4	615.5	624.9	632.2	638.0	642.3	644.5	646.0
27.5°	596.7	607.5	617.0	624.2	630.0	634.4	637.3	638.7
30°	584.3	594.5	604.6	611.9	617.7	622.0	624.9	626.4
32.5°	569.1	579.3	588.7	595.9	602.5	606.1	609.0	610.4
35°	550.3	560.4	569.8	576.4	582.9	586.5	589.4	590.1
37.5°	530.0	540.1	548.8	554.6	561.1	564.0	567.7	568.4
40°	507.5	516.9	524.9	530.7	536.5	539.4	541.6	543.0
42.5°	484.3	493.0	501.0	506.0	510.4	513.3	516.2	516.2
45°	461.8	468.3	475.6	479.9	484.3	486.5	488.6	489.4
47.5°	438.6	445.1	450.9	453.8	458.2	459.6	461.1	461.8
50°	416.1	421.9	426.3	429.2	432.1	433.5	435.0	435.0
52.5°	394.4	399.5	403.1	404.5	407.4	408.2	408.9	409.6
55°	374.1	377.7	380.6	381.3	383.5	383.5	385.0	385.7
57.5°	354.5	356.7	358.9	358.9	360.3	360.3	361.8	362.5
60°	334.9	336.4	337.1	337.1	338.6	337.8	339.3	340.0
62.5°	315.4	316.1	316.1	316.1	316.8	316.8	317.5	318.3
65°	295.8	295.8	295.8	295.8	296.5	295.8	297.2	298.0
67.5°	276.2	275.5	275.5	274.8	276.2	275.5	276.9	277.7
70°	255.9	255.9	254.5	254.5	255.2	255.9	256.6	256.6
72.5°	235.6	234.2	234.2	233.4	234.2	234.9	236.3	235.6
75°	214.6	213.9	212.4	211.7	211.7	211.0	211.7	211.0
77.5°	189.9	187.8	184.9	184.1	182.7	182.0	182.7	183.4
80°	160.9	158.8	156.6	155.9	154.4	154.4	154.4	155.1
82.5°	130.5	129.0	126.9	126.9	125.4	125.4	125.4	124.7
85°	96.4	95.7	94.2	94.2	92.8	92.8	92.8	92.1
87.5°	56.5	56.5	55.1	55.8	53.6	53.6	53.6	54.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)