

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: P188409

Luminaire Tested: **22SR-LD2-19-C-UNV-L830-CD1-ST-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188409  
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-L830-CD1-ST-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STRAW SKYTRIM.  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

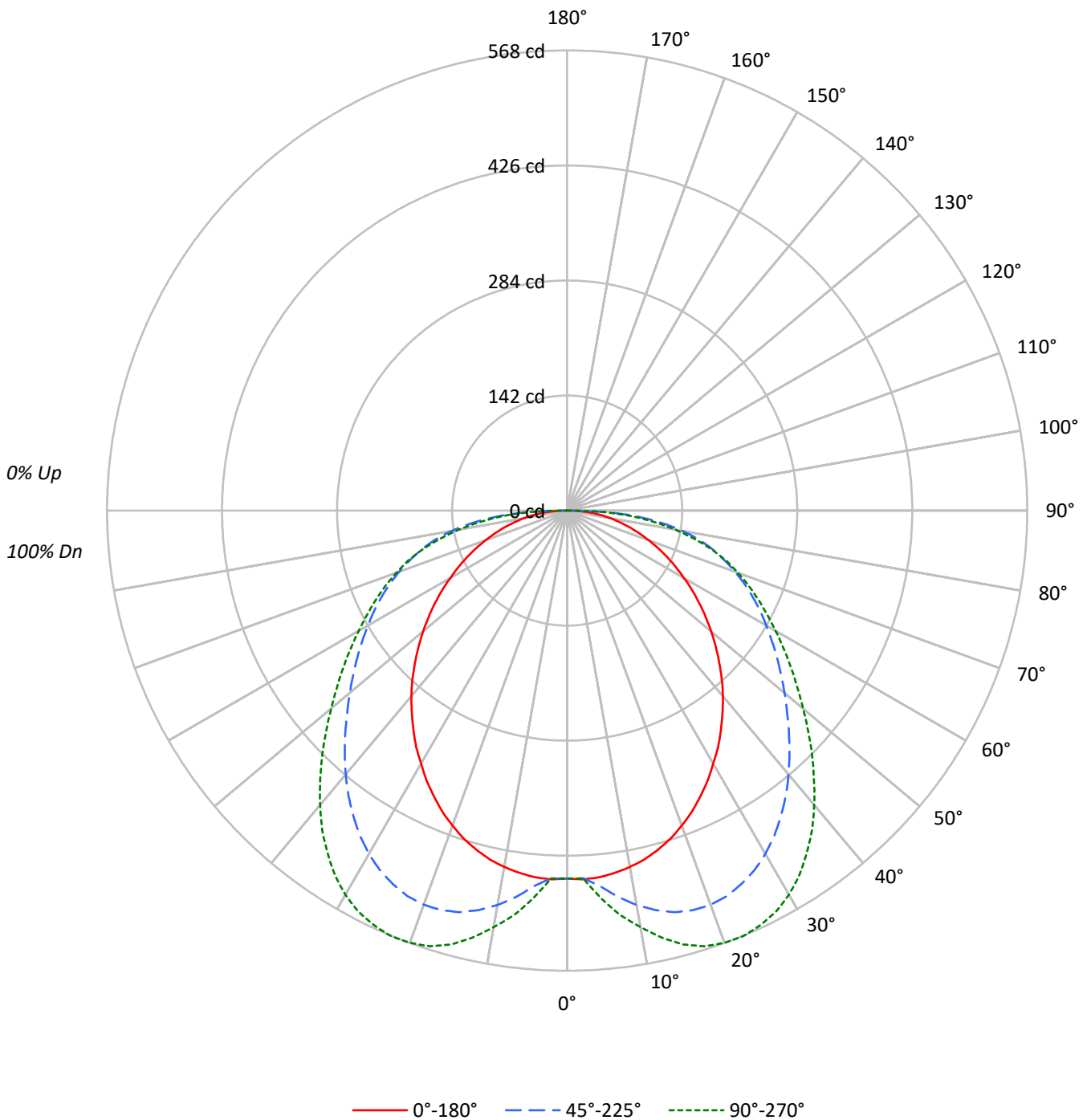
Lumens per Lamp: N/A  
Luminaire Lumens: 1720.0 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.62 / 1.55  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.7  
Input Voltage (V): NR  
Input Current (A<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°	1331	1331	1331
5°	1336	1368	1413
10°	1329	1470	1553
15°	1315	1557	1682
20°	1290	1614	1770
25°	1258	1645	1825
30°	1220	1655	1852
35°	1183	1645	1845
40°	1144	1626	1815
45°	1100	1604	1772
50°	1057	1597	1733
55°	1017	1615	1722
60°	976	1664	1742
65°	944	1753	1805
70°	918	1889	1922
75°	903	2109	2088
80°	909	2438	2288
85°	958	3002	2706



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.2	2.6
10°-20°	142.2	8.3
20°-30°	227.8	13.2
30°-40°	278.2	16.2
40°-50°	286.5	16.7
50°-60°	265.6	15.4
60°-70°	227.6	13.2
70°-80°	171.2	10.0
80°-90°	75.7	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°	415.2	24.1
0°-40°	693.4	40.3
0°-60°	1245.5	72.4
0°-90°	1720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	454	454	465	476	480	43
15°	433	465	513	543	554	122
25°	389	446	509	549	565	179
35°	331	396	460	501	516	207
45°	266	331	387	418	428	205
55°	199	265	316	333	337	178
65°	136	206	253	258	260	135
75°	80	146	186	185	184	84
85°	28	68	89	82	80	31
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°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3
2.5°	455.6	454.9	454.3	454.9	454.3	454.3	453.7	453.0	454.3	454.3	454.3
5°	454.3	453.7	453.0	453.7	453.7	454.9	455.6	458.7	462.5	465.1	468.9
7.5°	451.1	450.5	449.9	451.8	454.3	458.7	463.8	470.2	475.9	480.9	485.4
10°	446.7	446.1	446.1	450.5	456.8	465.1	472.1	479.7	487.3	494.2	500.6
12.5°	441.0	441.0	441.6	449.9	459.4	469.5	477.8	487.3	496.8	505.0	512.6
15°	433.4	432.8	435.9	447.3	459.4	470.8	481.6	492.3	503.7	513.2	521.5
17.5°	424.5	423.9	430.2	444.2	456.8	470.2	482.8	494.9	506.9	517.0	526.5
20°	413.8	413.8	422.6	439.1	453.0	467.6	480.9	493.6	506.9	517.7	527.8
22.5°	402.4	403.0	414.4	431.5	446.7	461.9	475.9	489.8	503.1	515.1	525.3
25°	389.0	390.3	403.6	421.4	437.8	453.7	468.3	482.8	496.8	508.8	519.6
27.5°	375.7	377.0	392.8	410.6	427.7	443.5	458.7	474.0	488.5	500.6	511.3
30°	360.5	363.7	379.5	397.9	415.7	431.5	447.3	462.5	476.5	489.2	500.6
32.5°	346.6	349.1	366.9	384.6	403.0	418.8	434.7	449.2	463.2	475.9	486.6
35°	330.8	334.6	352.3	370.0	387.8	403.6	419.5	434.0	448.0	460.0	470.8
37.5°	314.9	320.0	337.1	355.5	372.6	388.4	404.3	418.2	432.1	443.5	453.7
40°	299.1	303.5	321.2	339.0	356.7	371.9	387.1	400.5	413.8	425.2	434.7
42.5°	282.6	287.7	305.4	322.5	339.6	354.8	370.0	383.3	396.0	406.2	415.0
45°	265.5	271.8	288.9	306.0	323.2	338.4	352.9	365.6	377.0	387.1	395.4
47.5°	249.0	256.0	273.1	290.2	306.7	321.2	335.8	348.5	359.3	368.1	375.7
50°	231.9	240.1	256.6	273.1	290.2	304.8	318.7	330.1	341.5	350.4	356.7
52.5°	215.4	223.7	240.8	257.3	273.7	288.3	302.2	314.3	324.4	332.7	339.6
55°	199.0	207.8	224.9	241.4	257.9	272.5	286.4	297.8	307.9	316.2	321.9
57.5°	183.1	192.6	209.1	226.2	242.7	257.3	271.2	282.6	292.1	299.7	305.4
60°	166.6	177.4	193.9	210.4	227.5	242.7	256.0	267.4	276.9	283.9	288.9
62.5°	151.4	162.2	178.7	195.8	212.9	228.1	241.4	252.8	261.7	268.7	272.5
65°	136.2	147.6	164.1	181.2	198.3	213.5	226.8	238.2	246.5	252.8	256.6
67.5°	121.7	133.1	149.5	166.6	183.8	199.0	212.3	223.0	231.3	237.0	239.5
70°	107.1	118.5	135.0	152.1	168.5	184.4	197.7	207.8	216.1	220.5	222.4
72.5°	93.1	105.2	121.0	136.9	154.0	169.2	182.5	193.3	199.6	203.4	206.6
75°	79.8	91.2	106.4	122.3	138.1	154.0	166.6	176.1	182.5	186.3	187.6
77.5°	66.5	77.9	92.5	107.1	122.9	137.5	150.2	159.0	164.1	167.3	169.2
80°	53.9	64.0	77.3	91.2	105.8	119.1	130.5	138.8	143.2	144.5	144.5
82.5°	41.8	50.1	61.5	73.5	86.2	98.2	108.4	114.7	117.9	118.5	117.9
85°	28.5	34.2	43.1	52.6	62.1	72.9	81.7	86.2	88.1	89.3	88.1
87.5°	15.2	17.1	22.2	27.9	34.8	41.8	47.5	50.7	52.6	52.6	53.2
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°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3
2.5°	454.3	454.3	454.9	454.3	454.3	454.9	454.3	454.3
5°	470.8	472.1	475.2	476.5	477.1	479.0	479.0	480.3
7.5°	488.5	491.7	494.9	497.4	499.3	501.8	502.5	503.7
10°	505.0	508.8	512.6	516.4	518.9	520.2	521.5	522.1
12.5°	518.3	523.4	528.4	532.2	535.4	537.3	539.2	539.9
15°	527.8	534.8	540.5	545.6	548.7	551.3	553.2	554.4
17.5°	534.1	541.8	548.1	553.8	557.6	560.1	562.7	563.9
20°	536.0	543.7	551.3	557.0	561.4	564.6	566.5	567.7
22.5°	534.1	542.4	550.0	556.3	560.8	564.6	566.5	568.4
25°	529.1	538.0	546.2	552.5	557.6	561.4	563.3	564.6
27.5°	521.5	531.0	539.2	545.6	550.6	554.4	557.0	558.2
30°	510.7	519.6	528.4	534.8	539.9	543.7	546.2	547.5
32.5°	497.4	506.3	514.5	520.8	526.5	529.7	532.2	533.5
35°	480.9	489.8	498.0	503.7	509.4	512.6	515.1	515.8
37.5°	463.2	472.1	479.7	484.7	490.4	493.0	496.1	496.8
40°	443.5	451.8	458.7	463.8	468.9	471.4	473.3	474.6
42.5°	423.3	430.9	437.8	442.3	446.1	448.6	451.1	451.1
45°	403.6	409.3	415.7	419.5	423.3	425.2	427.1	427.7
47.5°	383.3	389.0	394.1	396.7	400.5	401.7	403.0	403.6
50°	363.7	368.8	372.6	375.1	377.6	378.9	380.2	380.2
52.5°	344.7	349.1	352.3	353.6	356.1	356.7	357.4	358.0
55°	327.0	330.1	332.7	333.3	335.2	335.2	336.5	337.1
57.5°	309.8	311.7	313.6	313.6	314.9	314.9	316.2	316.8
60°	292.7	294.0	294.6	294.6	295.9	295.3	296.5	297.2
62.5°	275.6	276.3	276.3	276.3	276.9	276.9	277.5	278.2
65°	258.5	258.5	258.5	258.5	259.2	258.5	259.8	260.4
67.5°	241.4	240.8	240.8	240.1	241.4	240.8	242.0	242.7
70°	223.7	223.7	222.4	222.4	223.0	223.7	224.3	224.3
72.5°	205.9	204.7	204.7	204.0	204.7	205.3	206.6	205.9
75°	187.6	186.9	185.7	185.0	185.0	184.4	185.0	184.4
77.5°	166.0	164.1	161.6	160.9	159.7	159.0	159.7	160.3
80°	140.7	138.8	136.9	136.2	135.0	135.0	135.0	135.6
82.5°	114.1	112.8	110.9	110.9	109.6	109.6	109.6	109.0
85°	84.3	83.6	82.4	82.4	81.1	81.1	81.1	80.5
87.5°	49.4	49.4	48.2	48.8	46.9	46.9	46.9	47.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)