

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: P188399

Luminaire Tested: **22SR-LD2-25-C-UNV-L830-CD1-ST-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188399
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-LD2-25-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: 2266.0 lumens
Efficiency: N/A
Efficacy: 115.6 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

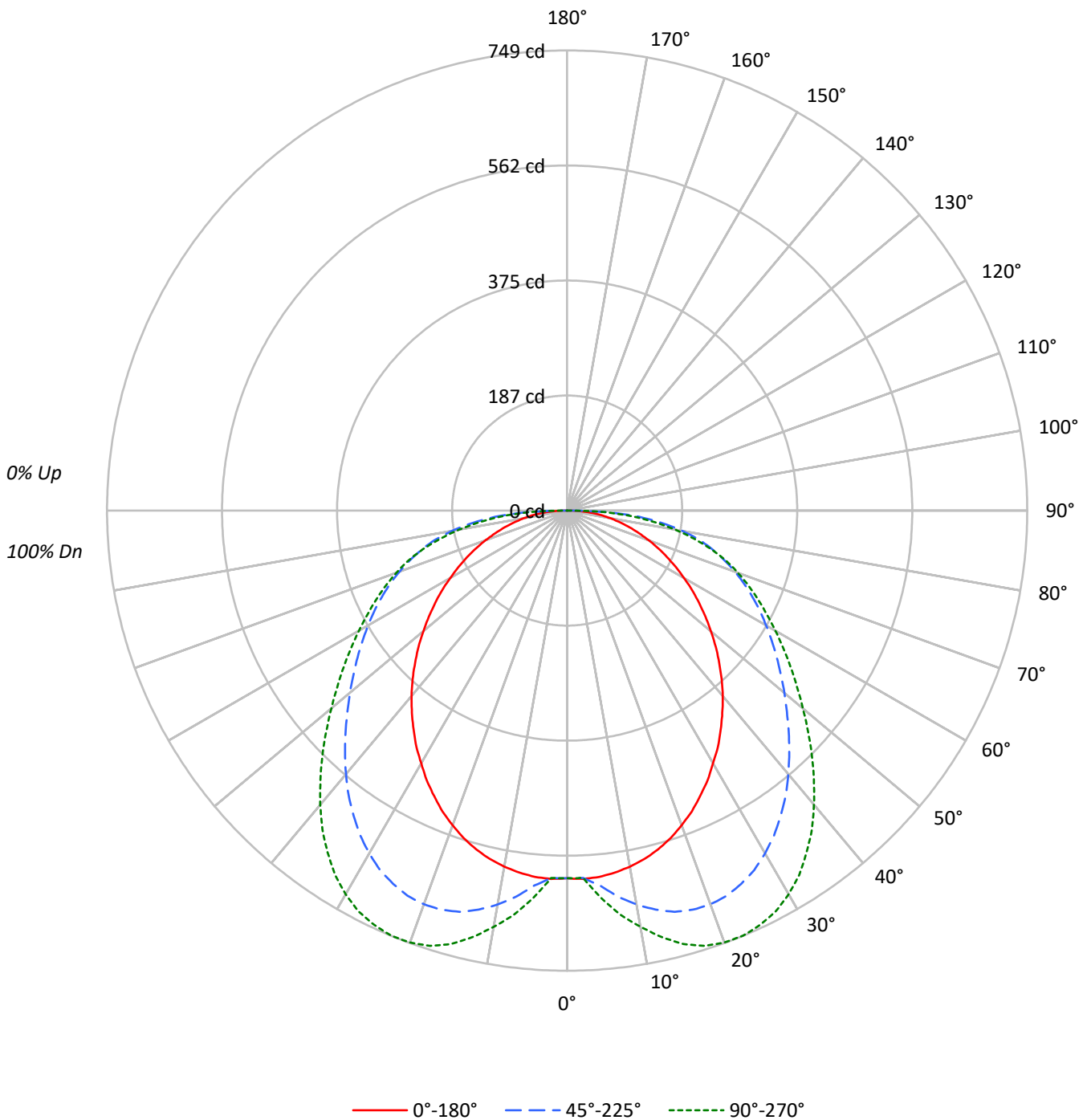
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1754	1754	1754
5°	1760	1802	1861
10°	1751	1937	2046
15°	1732	2051	2216
20°	1700	2127	2332
25°	1657	2167	2405
30°	1607	2180	2440
35°	1558	2168	2431
40°	1507	2142	2391
45°	1449	2113	2335
50°	1393	2104	2283
55°	1339	2128	2269
60°	1286	2192	2294
65°	1244	2309	2379
70°	1209	2489	2532
75°	1191	2778	2750
80°	1198	3211	3014
85°	1264	3957	3564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	2.6
10°-20°	187.3	8.3
20°-30°	300.1	13.2
30°-40°	366.5	16.2
40°-50°	377.4	16.7
50°-60°	349.9	15.4
60°-70°	299.9	13.2
70°-80°	225.6	10.0
80°-90°	99.7	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°	546.9	24.1
0°-40°	913.5	40.3
0°-60°	1640.8	72.4
0°-90°	2266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	598	599	613	627	633	57
15°	571	613	676	715	730	161
25°	512	587	670	724	744	236
35°	436	521	606	660	680	273
45°	350	436	510	550	564	270
55°	262	349	416	439	444	235
65°	180	271	333	341	343	178
75°	105	192	245	244	243	111
85°	38	89	118	108	106	40
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°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5
2.5°	600.2	599.4	598.5	599.4	598.5	598.5	597.7	596.9	598.5	598.5	598.5
5°	598.5	597.7	596.9	597.7	597.7	599.4	600.2	604.4	609.4	612.7	617.7
7.5°	594.4	593.5	592.7	595.2	598.5	604.4	611.1	619.4	626.9	633.6	639.4
10°	588.5	587.7	587.7	593.5	601.9	612.7	621.9	631.9	641.9	651.1	659.5
12.5°	581.0	581.0	581.8	592.7	605.2	618.6	629.4	641.9	654.5	665.3	675.3
15°	571.0	570.1	574.3	589.3	605.2	620.2	634.4	648.6	663.6	676.2	687.0
17.5°	559.3	558.5	566.8	585.2	601.9	619.4	636.1	652.0	667.8	681.2	693.7
20°	545.1	545.1	556.8	578.5	596.9	616.1	633.6	650.3	667.8	682.0	695.4
22.5°	530.1	530.9	545.9	568.5	588.5	608.5	626.9	645.3	662.8	678.7	692.0
25°	512.5	514.2	531.7	555.1	576.8	597.7	616.9	636.1	654.5	670.3	684.5
27.5°	495.0	496.7	517.6	540.9	563.5	584.3	604.4	624.4	643.6	659.5	673.7
30°	475.0	479.2	500.0	524.2	547.6	568.5	589.3	609.4	627.7	644.4	659.5
32.5°	456.6	460.0	483.3	506.7	530.9	551.8	572.7	591.9	610.2	626.9	641.1
35°	435.7	440.8	464.1	487.5	510.9	531.7	552.6	571.8	590.2	606.0	620.2
37.5°	414.9	421.6	444.1	468.3	490.8	511.7	532.6	550.9	569.3	584.3	597.7
40°	394.0	399.9	423.2	446.6	470.0	490.0	510.0	527.6	545.1	560.1	572.7
42.5°	372.3	379.0	402.4	424.9	447.4	467.5	487.5	505.0	521.7	535.1	546.8
45°	349.8	358.1	380.7	403.2	425.7	445.8	465.0	481.7	496.7	510.0	520.9
47.5°	328.1	337.2	359.8	382.3	404.0	423.2	442.4	459.1	473.3	485.0	495.0
50°	305.5	316.4	338.1	359.8	382.3	401.5	419.9	434.9	449.9	461.6	470.0
52.5°	283.8	294.7	317.2	338.9	360.6	379.8	398.2	414.0	427.4	438.3	447.4
55°	262.1	273.8	296.3	318.0	339.8	359.0	377.3	392.3	405.7	416.5	424.1
57.5°	241.2	253.8	275.5	298.0	319.7	338.9	357.3	372.3	384.8	394.8	402.4
60°	219.5	233.7	255.4	277.1	299.7	319.7	337.2	352.3	364.8	374.0	380.7
62.5°	199.5	213.7	235.4	257.9	280.5	300.5	318.0	333.1	344.8	353.9	359.0
65°	179.5	194.5	216.2	238.7	261.3	281.3	298.8	313.9	324.7	333.1	338.1
67.5°	160.3	175.3	197.0	219.5	242.1	262.1	279.6	293.8	304.7	312.2	315.5
70°	141.1	156.1	177.8	200.3	222.0	242.9	260.4	273.8	284.7	290.5	293.0
72.5°	122.7	138.6	159.4	180.3	202.8	222.9	240.4	254.6	263.0	268.0	272.1
75°	105.2	120.2	140.2	161.1	182.0	202.8	219.5	232.1	240.4	245.4	247.1
77.5°	87.7	102.7	121.9	141.1	161.9	181.1	197.8	209.5	216.2	220.4	222.9
80°	71.0	84.3	101.8	120.2	139.4	156.9	172.0	182.8	188.7	190.3	190.3
82.5°	55.1	65.9	81.0	96.8	113.5	129.4	142.7	151.1	155.3	156.1	155.3
85°	37.6	45.1	56.8	69.3	81.8	96.0	107.7	113.5	116.0	117.7	116.0
87.5°	20.0	22.5	29.2	36.7	45.9	55.1	62.6	66.8	69.3	69.3	70.1
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°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5
2.5°	598.5	598.5	599.4	598.5	598.5	599.4	598.5	598.5
5°	620.2	621.9	626.1	627.7	628.6	631.1	631.1	632.8
7.5°	643.6	647.8	652.0	655.3	657.8	661.1	662.0	663.6
10°	665.3	670.3	675.3	680.3	683.7	685.3	687.0	687.8
12.5°	682.8	689.5	696.2	701.2	705.4	707.9	710.4	711.2
15°	695.4	704.5	712.1	718.7	722.9	726.2	728.8	730.4
17.5°	703.7	713.7	722.1	729.6	734.6	737.9	741.3	742.9
20°	706.2	716.2	726.2	733.8	739.6	743.8	746.3	748.0
22.5°	703.7	714.6	724.6	732.9	738.8	743.8	746.3	748.8
25°	697.0	708.7	719.6	727.9	734.6	739.6	742.1	743.8
27.5°	687.0	699.5	710.4	718.7	725.4	730.4	733.8	735.4
30°	672.8	684.5	696.2	704.5	711.2	716.2	719.6	721.2
32.5°	655.3	667.0	677.8	686.2	693.7	697.9	701.2	702.9
35°	633.6	645.3	656.1	663.6	671.2	675.3	678.7	679.5
37.5°	610.2	621.9	631.9	638.6	646.1	649.5	653.6	654.5
40°	584.3	595.2	604.4	611.1	617.7	621.1	623.6	625.2
42.5°	557.6	567.6	576.8	582.7	587.7	591.0	594.4	594.4
45°	531.7	539.3	547.6	552.6	557.6	560.1	562.6	563.5
47.5°	505.0	512.5	519.2	522.6	527.6	529.2	530.9	531.7
50°	479.2	485.8	490.8	494.2	497.5	499.2	500.9	500.9
52.5°	454.1	460.0	464.1	465.8	469.1	470.0	470.8	471.6
55°	430.7	434.9	438.3	439.1	441.6	441.6	443.3	444.1
57.5°	408.2	410.7	413.2	413.2	414.9	414.9	416.5	417.4
60°	385.7	387.3	388.2	388.2	389.8	389.0	390.7	391.5
62.5°	363.1	364.0	364.0	364.0	364.8	364.8	365.6	366.5
65°	340.6	340.6	340.6	340.6	341.4	340.6	342.3	343.1
67.5°	318.0	317.2	317.2	316.4	318.0	317.2	318.9	319.7
70°	294.7	294.7	293.0	293.0	293.8	294.7	295.5	295.5
72.5°	271.3	269.6	269.6	268.8	269.6	270.5	272.1	271.3
75°	247.1	246.3	244.6	243.8	243.8	242.9	243.8	242.9
77.5°	218.7	216.2	212.9	212.0	210.4	209.5	210.4	211.2
80°	185.3	182.8	180.3	179.5	177.8	177.8	177.8	178.6
82.5°	150.3	148.6	146.1	146.1	144.4	144.4	144.4	143.6
85°	111.0	110.2	108.5	108.5	106.9	106.9	106.9	106.0
87.5°	65.1	65.1	63.4	64.3	61.8	61.8	61.8	62.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)