

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: P188402

Luminaire Tested: **22SR-LD2-20-C-UNV-L850-CD1-ST-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188402
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-LD2-20-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: 2061.0 lumens
Efficiency: N/A
Efficacy: 133.8 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

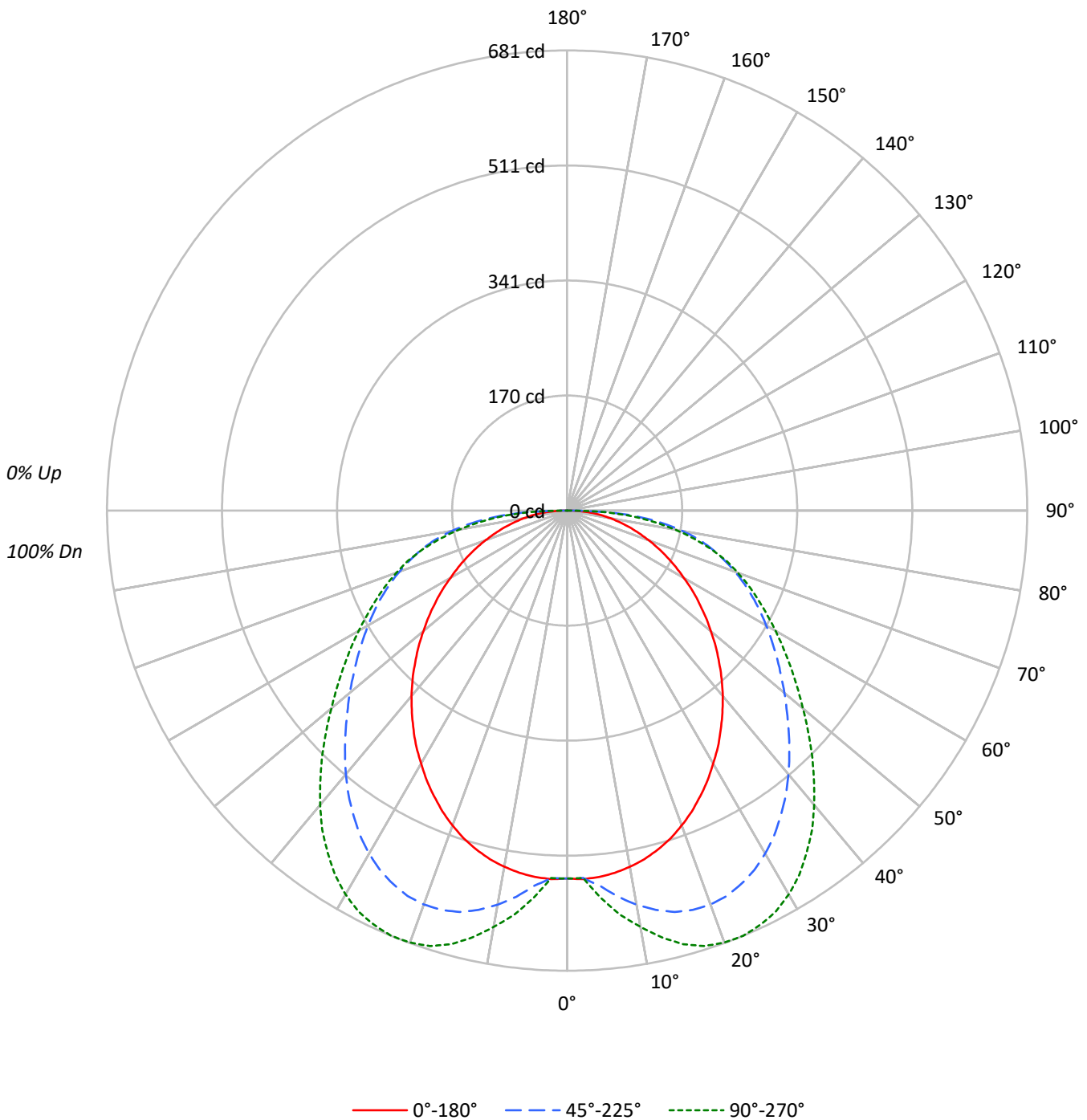
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1595	1595	1595
5°	1601	1639	1693
10°	1593	1762	1861
15°	1575	1866	2015
20°	1546	1934	2121
25°	1507	1971	2187
30°	1462	1983	2219
35°	1418	1972	2211
40°	1371	1949	2175
45°	1318	1922	2124
50°	1267	1914	2076
55°	1218	1936	2063
60°	1170	1993	2087
65°	1131	2100	2164
70°	1099	2263	2303
75°	1083	2527	2501
80°	1088	2921	2742
85°	1150	3601	3241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	2.6
10°-20°	170.3	8.3
20°-30°	273.0	13.2
30°-40°	333.4	16.2
40°-50°	343.3	16.7
50°-60°	318.2	15.4
60°-70°	272.8	13.2
70°-80°	205.2	10.0
80°-90°	90.6	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°	497.5	24.1
0°-40°	830.9	40.3
0°-60°	1492.4	72.4
0°-90°	2061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	544	544	557	570	576	52
15°	519	557	615	651	664	146
25°	466	534	610	658	676	215
35°	396	474	551	600	618	248
45°	318	396	464	500	512	246
55°	238	318	379	399	404	213
65°	163	247	303	310	312	162
75°	96	175	223	222	221	101
85°	34	81	107	99	96	37
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°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4
2.5°	545.9	545.1	544.4	545.1	544.4	544.4	543.6	542.9	544.4	544.4	544.4
5°	544.4	543.6	542.9	543.6	543.6	545.1	545.9	549.7	554.3	557.3	561.8
7.5°	540.6	539.8	539.1	541.3	544.4	549.7	555.8	563.4	570.2	576.3	581.6
10°	535.3	534.5	534.5	539.8	547.4	557.3	565.6	574.8	583.9	592.2	599.8
12.5°	528.4	528.4	529.2	539.1	550.5	562.6	572.5	583.9	595.3	605.1	614.2
15°	519.3	518.6	522.4	536.0	550.5	564.1	577.0	589.9	603.6	615.0	624.9
17.5°	508.7	507.9	515.5	532.2	547.4	563.4	578.5	593.0	607.4	619.5	630.9
20°	495.8	495.8	506.4	526.2	542.9	560.3	576.3	591.5	607.4	620.3	632.5
22.5°	482.1	482.9	496.5	517.0	535.3	553.5	570.2	586.9	602.8	617.3	629.4
25°	466.2	467.7	483.6	504.9	524.6	543.6	561.1	578.5	595.3	609.7	622.6
27.5°	450.2	451.8	470.7	492.0	512.5	531.5	549.7	567.9	585.4	599.8	612.7
30°	432.0	435.8	454.8	476.8	498.1	517.0	536.0	554.3	571.0	586.1	599.8
32.5°	415.3	418.3	439.6	460.9	482.9	501.9	520.8	538.3	555.0	570.2	583.1
35°	396.3	400.9	422.1	443.4	464.7	483.6	502.6	520.1	536.8	551.2	564.1
37.5°	377.3	383.4	403.9	425.9	446.4	465.4	484.4	501.1	517.8	531.5	543.6
40°	358.4	363.7	384.9	406.2	427.5	445.7	463.9	479.8	495.8	509.5	520.8
42.5°	338.6	344.7	366.0	386.5	407.0	425.2	443.4	459.3	474.5	486.7	497.3
45°	318.1	325.7	346.2	366.7	387.2	405.4	422.9	438.1	451.8	463.9	473.8
47.5°	298.4	306.7	327.2	347.7	367.5	384.9	402.4	417.6	430.5	441.1	450.2
50°	277.9	287.8	307.5	327.2	347.7	365.2	381.9	395.6	409.2	419.9	427.5
52.5°	258.1	268.0	288.5	308.3	328.0	345.5	362.2	376.6	388.7	398.6	407.0
55°	238.4	249.0	269.5	289.3	309.0	326.5	343.2	356.8	369.0	378.9	385.7
57.5°	219.4	230.8	250.6	271.1	290.8	308.3	325.0	338.6	350.0	359.1	366.0
60°	199.7	212.6	232.3	252.1	272.6	290.8	306.7	320.4	331.8	340.1	346.2
62.5°	181.5	194.4	214.1	234.6	255.1	273.3	289.3	302.9	313.6	321.9	326.5
65°	163.2	176.9	196.6	217.1	237.6	255.9	271.8	285.5	295.3	302.9	307.5
67.5°	145.8	159.4	179.2	199.7	220.2	238.4	254.3	267.3	277.1	284.0	287.0
70°	128.3	142.0	161.7	182.2	202.0	220.9	236.9	249.0	258.9	264.2	266.5
72.5°	111.6	126.0	145.0	164.0	184.5	202.7	218.7	231.6	239.2	243.7	247.5
75°	95.7	109.3	127.6	146.5	165.5	184.5	199.7	211.1	218.7	223.2	224.7
77.5°	79.7	93.4	110.9	128.3	147.3	164.8	179.9	190.6	196.6	200.4	202.7
80°	64.5	76.7	92.6	109.3	126.8	142.7	156.4	166.3	171.6	173.1	173.1
82.5°	50.1	60.0	73.6	88.1	103.3	117.7	129.8	137.4	141.2	142.0	141.2
85°	34.2	41.0	51.6	63.0	74.4	87.3	97.9	103.3	105.5	107.1	105.5
87.5°	18.2	20.5	26.6	33.4	41.8	50.1	56.9	60.7	63.0	63.0	63.8
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°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4
2.5°	544.4	544.4	545.1	544.4	544.4	545.1	544.4	544.4
5°	564.1	565.6	569.4	571.0	571.7	574.0	574.0	575.5
7.5°	585.4	589.2	593.0	596.0	598.3	601.3	602.1	603.6
10°	605.1	609.7	614.2	618.8	621.8	623.3	624.9	625.6
12.5°	621.1	627.1	633.2	637.8	641.6	643.8	646.1	646.9
15°	632.5	640.8	647.6	653.7	657.5	660.5	662.8	664.3
17.5°	640.0	649.2	656.8	663.6	668.1	671.2	674.2	675.7
20°	642.3	651.4	660.5	667.4	672.7	676.5	678.8	680.3
22.5°	640.0	649.9	659.0	666.6	671.9	676.5	678.8	681.0
25°	634.0	644.6	654.5	662.1	668.1	672.7	675.0	676.5
27.5°	624.9	636.3	646.1	653.7	659.8	664.3	667.4	668.9
30°	612.0	622.6	633.2	640.8	646.9	651.4	654.5	656.0
32.5°	596.0	606.6	616.5	624.1	630.9	634.7	637.8	639.3
35°	576.3	586.9	596.8	603.6	610.4	614.2	617.3	618.0
37.5°	555.0	565.6	574.8	580.8	587.7	590.7	594.5	595.3
40°	531.5	541.3	549.7	555.8	561.8	564.9	567.2	568.7
42.5°	507.2	516.3	524.6	530.0	534.5	537.5	540.6	540.6
45°	483.6	490.5	498.1	502.6	507.2	509.5	511.7	512.5
47.5°	459.3	466.2	472.3	475.3	479.8	481.4	482.9	483.6
50°	435.8	441.9	446.4	449.5	452.5	454.0	455.5	455.5
52.5°	413.0	418.3	422.1	423.7	426.7	427.5	428.2	429.0
55°	391.8	395.6	398.6	399.4	401.6	401.6	403.2	403.9
57.5°	371.3	373.6	375.8	375.8	377.3	377.3	378.9	379.6
60°	350.8	352.3	353.1	353.1	354.6	353.8	355.3	356.1
62.5°	330.3	331.0	331.0	331.0	331.8	331.8	332.6	333.3
65°	309.8	309.8	309.8	309.8	310.5	309.8	311.3	312.1
67.5°	289.3	288.5	288.5	287.8	289.3	288.5	290.0	290.8
70°	268.0	268.0	266.5	266.5	267.3	268.0	268.8	268.8
72.5°	246.8	245.2	245.2	244.5	245.2	246.0	247.5	246.8
75°	224.7	224.0	222.5	221.7	221.7	220.9	221.7	220.9
77.5°	198.9	196.6	193.6	192.8	191.3	190.6	191.3	192.1
80°	168.6	166.3	164.0	163.2	161.7	161.7	161.7	162.5
82.5°	136.7	135.1	132.9	132.9	131.4	131.4	131.4	130.6
85°	101.0	100.2	98.7	98.7	97.2	97.2	97.2	96.4
87.5°	59.2	59.2	57.7	58.5	56.2	56.2	56.2	56.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)