

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: P188394

Luminaire Tested: **22SR-LD2-29-C-UNV-L830-CD1-ST-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188394
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-LD2-29-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: 2645.0 lumens
Efficiency: N/A
Efficacy: 113.0 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

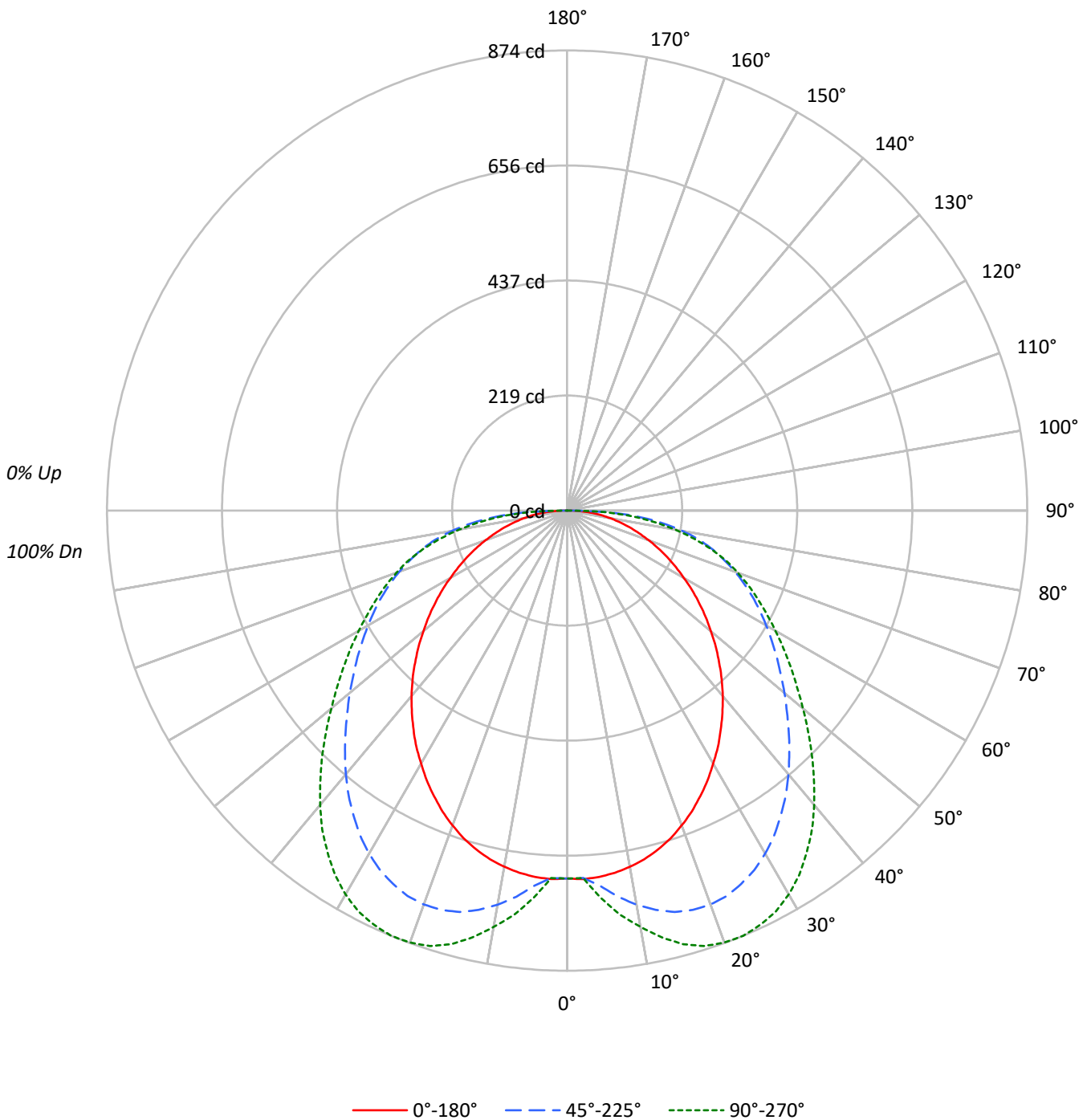
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2047	2047	2047
5°	2055	2104	2172
10°	2044	2261	2389
15°	2022	2394	2586
20°	1984	2482	2722
25°	1934	2529	2807
30°	1876	2545	2848
35°	1819	2530	2837
40°	1759	2501	2791
45°	1692	2467	2725
50°	1626	2456	2665
55°	1563	2484	2648
60°	1502	2558	2678
65°	1452	2696	2777
70°	1411	2905	2955
75°	1390	3243	3209
80°	1397	3749	3518
85°	1472	4619	4159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	2.6
10°-20°	218.6	8.3
20°-30°	350.3	13.2
30°-40°	427.9	16.2
40°-50°	440.6	16.7
50°-60°	408.4	15.4
60°-70°	350.1	13.2
70°-80°	263.3	10.0
80°-90°	116.3	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°	638.4	24.1
0°-40°	1066.3	40.3
0°-60°	1915.3	72.4
0°-90°	2645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2645.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	699	699	715	732	739	66
15°	666	715	789	835	853	188
25°	598	686	782	845	868	275
35°	509	608	707	770	793	318
45°	408	509	595	642	658	315
55°	306	408	486	512	518	274
65°	210	317	389	398	400	208
75°	123	225	286	285	284	130
85°	44	104	137	127	124	47
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°	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6
2.5°	700.6	699.6	698.6	699.6	698.6	698.6	697.7	696.7	698.6	698.6	698.6
5°	698.6	697.7	696.7	697.7	697.7	699.6	700.6	705.5	711.3	715.2	721.0
7.5°	693.8	692.8	691.8	694.7	698.6	705.5	713.3	723.0	731.8	739.6	746.4
10°	686.9	686.0	686.0	692.8	702.5	715.2	725.9	737.6	749.3	760.0	769.8
12.5°	678.2	678.2	679.1	691.8	706.4	722.0	734.7	749.3	763.9	776.6	788.3
15°	666.5	665.5	670.4	687.9	706.4	724.0	740.5	757.1	774.6	789.3	801.9
17.5°	652.8	651.9	661.6	683.0	702.5	723.0	742.5	761.0	779.5	795.1	809.7
20°	636.3	636.3	649.9	675.3	696.7	719.1	739.6	759.0	779.5	796.1	811.7
22.5°	618.7	619.7	637.2	663.6	686.9	710.3	731.8	753.2	773.7	792.2	807.8
25°	598.3	600.2	620.7	648.0	673.3	697.7	720.1	742.5	763.9	782.4	799.0
27.5°	577.8	579.8	604.1	631.4	657.7	682.1	705.5	728.8	751.3	769.8	786.3
30°	554.4	559.3	583.7	611.9	639.2	663.6	687.9	711.3	732.7	752.2	769.8
32.5°	533.0	536.9	564.2	591.5	619.7	644.1	668.4	690.8	712.3	731.8	748.3
35°	508.6	514.5	541.8	569.0	596.3	620.7	645.0	667.5	688.9	707.4	724.0
37.5°	484.3	492.1	518.4	546.6	572.9	597.3	621.7	643.1	664.5	682.1	697.7
40°	459.9	466.7	494.0	521.3	548.6	572.0	595.4	615.8	636.3	653.8	668.4
42.5°	434.6	442.4	469.7	496.0	522.3	545.7	569.0	589.5	609.0	624.6	638.2
45°	408.3	418.0	444.3	470.6	496.9	520.3	542.7	562.2	579.8	595.4	608.0
47.5°	382.9	393.7	420.0	446.3	471.6	494.0	516.4	535.9	552.5	566.1	577.8
50°	356.6	369.3	394.6	420.0	446.3	468.7	490.1	507.7	525.2	538.8	548.6
52.5°	331.3	344.0	370.3	395.6	420.9	443.3	464.8	483.3	498.9	511.6	522.3
55°	306.0	319.6	345.9	371.2	396.6	419.0	440.4	458.0	473.6	486.2	495.0
57.5°	281.6	296.2	321.5	347.9	373.2	395.6	417.0	434.6	449.2	460.9	469.7
60°	256.3	272.8	298.2	323.5	349.8	373.2	393.7	411.2	425.8	436.5	444.3
62.5°	232.9	249.4	274.8	301.1	327.4	350.8	371.2	388.8	402.4	413.1	419.0
65°	209.5	227.0	252.4	278.7	305.0	328.4	348.8	366.4	379.0	388.8	394.6
67.5°	187.1	204.6	230.0	256.3	282.6	306.0	326.4	343.0	355.7	364.4	368.3
70°	164.7	182.2	207.5	233.9	259.2	283.5	304.0	319.6	332.3	339.1	342.0
72.5°	143.2	161.7	186.1	210.5	236.8	260.2	280.6	297.2	306.9	312.8	317.7
75°	122.8	140.3	163.7	188.1	212.4	236.8	256.3	270.9	280.6	286.5	288.4
77.5°	102.3	119.8	142.3	164.7	189.0	211.4	230.9	244.6	252.4	257.2	260.2
80°	82.8	98.4	118.9	140.3	162.7	183.2	200.7	213.4	220.2	222.2	222.2
82.5°	64.3	77.0	94.5	113.0	132.5	151.0	166.6	176.4	181.2	182.2	181.2
85°	43.8	52.6	66.3	80.9	95.5	112.1	125.7	132.5	135.4	137.4	135.4
87.5°	23.4	26.3	34.1	42.9	53.6	64.3	73.1	78.0	80.9	80.9	81.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P188394

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6
2.5°	698.6	698.6	699.6	698.6	698.6	699.6	698.6	698.6
5°	724.0	725.9	730.8	732.7	733.7	736.6	736.6	738.6
7.5°	751.3	756.1	761.0	764.9	767.8	771.7	772.7	774.6
10°	776.6	782.4	788.3	794.1	798.0	800.0	801.9	802.9
12.5°	797.0	804.8	812.6	818.5	823.4	826.3	829.2	830.2
15°	811.7	822.4	831.2	838.9	843.8	847.7	850.6	852.6
17.5°	821.4	833.1	842.8	851.6	857.5	861.4	865.3	867.2
20°	824.3	836.0	847.7	856.5	863.3	868.2	871.1	873.1
22.5°	821.4	834.1	845.8	855.5	862.3	868.2	871.1	874.0
25°	813.6	827.3	839.9	849.7	857.5	863.3	866.2	868.2
27.5°	801.9	816.5	829.2	838.9	846.7	852.6	856.5	858.4
30°	785.4	799.0	812.6	822.4	830.2	836.0	839.9	841.9
32.5°	764.9	778.5	791.2	800.9	809.7	814.6	818.5	820.4
35°	739.6	753.2	765.9	774.6	783.4	788.3	792.2	793.2
37.5°	712.3	725.9	737.6	745.4	754.2	758.1	762.9	763.9
40°	682.1	694.7	705.5	713.3	721.0	724.9	727.9	729.8
42.5°	650.9	662.6	673.3	680.1	686.0	689.9	693.8	693.8
45°	620.7	629.5	639.2	645.0	650.9	653.8	656.7	657.7
47.5°	589.5	598.3	606.1	610.0	615.8	617.8	619.7	620.7
50°	559.3	567.1	572.9	576.8	580.7	582.7	584.6	584.6
52.5°	530.1	536.9	541.8	543.7	547.6	548.6	549.6	550.5
55°	502.8	507.7	511.6	512.5	515.5	515.5	517.4	518.4
57.5°	476.5	479.4	482.3	482.3	484.3	484.3	486.2	487.2
60°	450.2	452.1	453.1	453.1	455.0	454.1	456.0	457.0
62.5°	423.9	424.8	424.8	424.8	425.8	425.8	426.8	427.8
65°	397.6	397.6	397.6	397.6	398.5	397.6	399.5	400.5
67.5°	371.2	370.3	370.3	369.3	371.2	370.3	372.2	373.2
70°	344.0	344.0	342.0	342.0	343.0	344.0	344.9	344.9
72.5°	316.7	314.7	314.7	313.8	314.7	315.7	317.7	316.7
75°	288.4	287.4	285.5	284.5	284.5	283.5	284.5	283.5
77.5°	255.3	252.4	248.5	247.5	245.5	244.6	245.5	246.5
80°	216.3	213.4	210.5	209.5	207.5	207.5	207.5	208.5
82.5°	175.4	173.4	170.5	170.5	168.6	168.6	168.6	167.6
85°	129.6	128.6	126.7	126.7	124.7	124.7	124.7	123.7
87.5°	76.0	76.0	74.1	75.0	72.1	72.1	72.1	73.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)