

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: P188397

Luminaire Tested: **22SR-LD2-25-C-UNV-L850-CD1-ST-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188397
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-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: 2593.0 lumens
Efficiency: N/A
Efficacy: 132.3 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

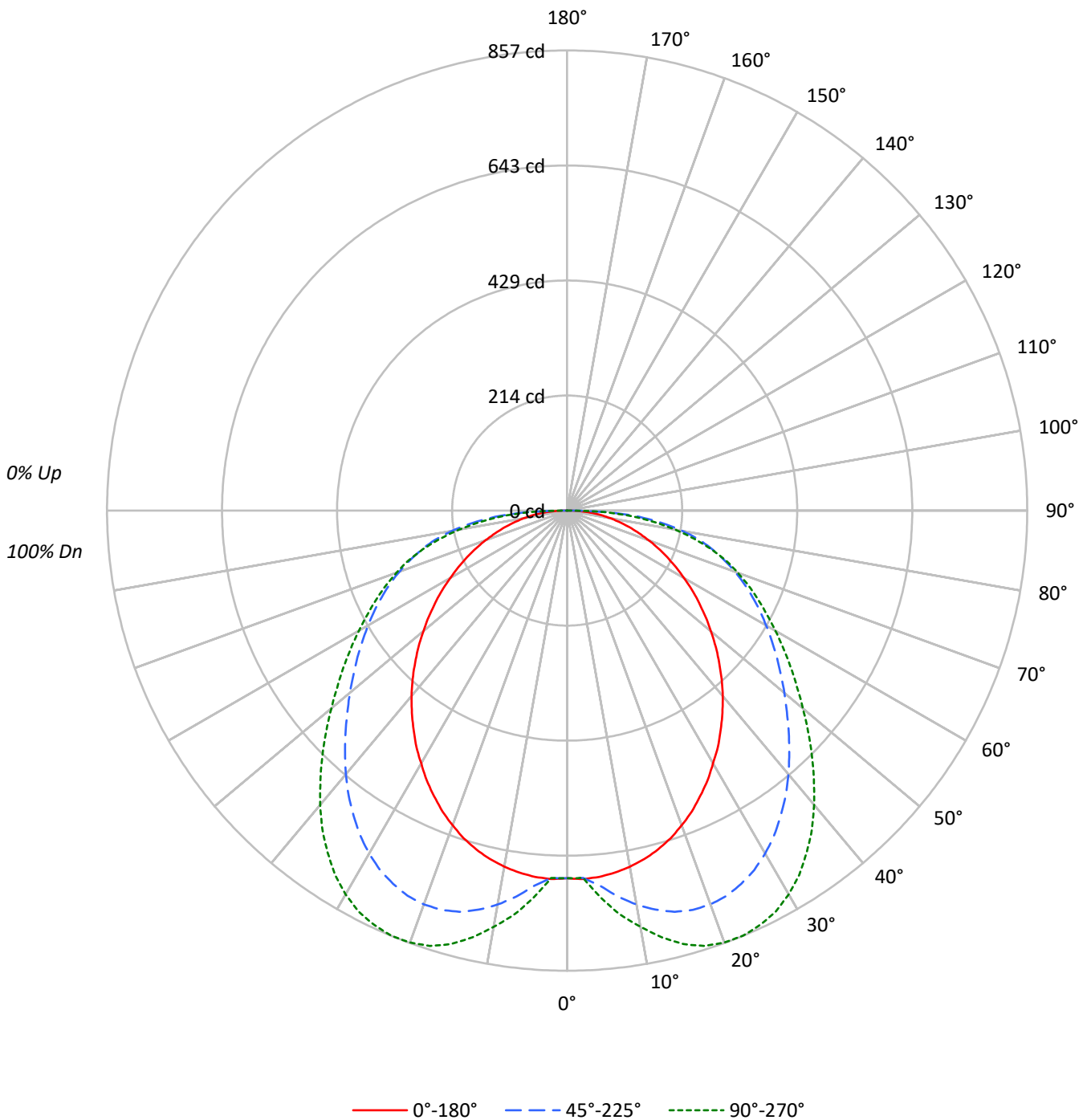
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2007	2007	2007
5°	2014	2062	2130
10°	2004	2217	2342
15°	1982	2347	2535
20°	1945	2433	2669
25°	1896	2480	2752
30°	1839	2495	2792
35°	1783	2481	2781
40°	1725	2452	2737
45°	1658	2418	2672
50°	1594	2408	2612
55°	1532	2435	2596
60°	1472	2508	2625
65°	1424	2642	2722
70°	1383	2848	2897
75°	1363	3179	3147
80°	1370	3675	3449
85°	1446	4528	4078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	2.6
10°-20°	214.3	8.3
20°-30°	343.5	13.2
30°-40°	419.4	16.2
40°-50°	431.9	16.7
50°-60°	400.4	15.4
60°-70°	343.2	13.2
70°-80°	258.1	10.0
80°-90°	114.0	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°	625.9	24.1
0°-40°	1045.3	40.3
0°-60°	1877.6	72.4
0°-90°	2593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	685	685	685	685	685	
5°	685	685	701	717	724	65
15°	653	701	774	819	836	184
25°	586	672	767	828	851	270
35°	499	597	694	755	778	312
45°	400	499	584	630	645	309
55°	300	400	477	502	508	269
65°	205	310	381	390	393	204
75°	120	220	281	279	278	127
85°	43	102	135	124	121	46
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°	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
2.5°	686.8	685.9	684.9	685.9	684.9	684.9	683.9	683.0	684.9	684.9	684.9
5°	684.9	683.9	683.0	683.9	683.9	685.9	686.8	691.6	697.3	701.1	706.9
7.5°	680.1	679.2	678.2	681.1	684.9	691.6	699.2	708.8	717.4	725.0	731.7
10°	673.4	672.5	672.5	679.2	688.7	701.1	711.6	723.1	734.6	745.1	754.6
12.5°	664.8	664.8	665.8	678.2	692.5	707.8	720.2	734.6	748.9	761.3	772.8
15°	653.4	652.4	657.2	674.4	692.5	709.7	726.0	742.2	759.4	773.7	786.2
17.5°	640.0	639.1	648.6	669.6	688.7	708.8	727.9	746.0	764.2	779.5	793.8
20°	623.8	623.8	637.1	662.0	683.0	705.0	725.0	744.1	764.2	780.4	795.7
22.5°	606.6	607.5	624.7	650.5	673.4	696.4	717.4	738.4	758.5	776.6	791.9
25°	586.5	588.4	608.5	635.2	660.1	683.9	705.9	727.9	748.9	767.1	783.3
27.5°	566.5	568.4	592.2	619.0	644.8	668.7	691.6	714.5	736.5	754.6	770.9
30°	543.5	548.3	572.2	599.9	626.6	650.5	674.4	697.3	718.3	737.4	754.6
32.5°	522.5	526.3	553.1	579.8	607.5	631.4	655.3	677.3	698.3	717.4	733.6
35°	498.6	504.4	531.1	557.9	584.6	608.5	632.4	654.3	675.3	693.5	709.7
37.5°	474.8	482.4	508.2	535.9	561.7	585.6	609.4	630.5	651.5	668.7	683.9
40°	450.9	457.6	484.3	511.0	537.8	560.7	583.6	603.7	623.8	641.0	655.3
42.5°	426.0	433.7	460.4	486.2	512.0	534.9	557.9	577.9	597.0	612.3	625.7
45°	400.2	409.8	435.6	461.4	487.2	510.1	532.1	551.2	568.4	583.6	596.1
47.5°	375.4	385.9	411.7	437.5	462.3	484.3	506.3	525.4	541.6	555.0	566.5
50°	349.6	362.0	386.9	411.7	437.5	459.5	480.5	497.7	514.9	528.2	537.8
52.5°	324.8	337.2	363.0	387.8	412.7	434.6	455.6	473.8	489.1	501.5	512.0
55°	299.9	313.3	339.1	363.9	388.8	410.7	431.8	449.0	464.2	476.7	485.3
57.5°	276.1	290.4	315.2	341.0	365.9	387.8	408.8	426.0	440.4	451.8	460.4
60°	251.2	267.5	292.3	317.1	342.9	365.9	385.9	403.1	417.4	427.9	435.6
62.5°	228.3	244.5	269.4	295.2	321.0	343.9	363.9	381.1	394.5	405.0	410.7
65°	205.4	222.6	247.4	273.2	299.0	321.9	342.0	359.2	371.6	381.1	386.9
67.5°	183.4	200.6	225.4	251.2	277.0	299.9	320.0	336.2	348.7	357.3	361.1
70°	161.4	178.6	203.5	229.3	254.1	278.0	298.0	313.3	325.7	332.4	335.3
72.5°	140.4	158.6	182.4	206.3	232.1	255.0	275.1	291.3	300.9	306.6	311.4
75°	120.4	137.6	160.5	184.4	208.2	232.1	251.2	265.6	275.1	280.8	282.7
77.5°	100.3	117.5	139.5	161.4	185.3	207.3	226.4	239.8	247.4	252.2	255.0
80°	81.2	96.5	116.5	137.6	159.5	179.6	196.8	209.2	215.9	217.8	217.8
82.5°	63.0	75.5	92.7	110.8	129.9	148.1	163.3	172.9	177.7	178.6	177.7
85°	43.0	51.6	65.0	79.3	93.6	109.9	123.2	129.9	132.8	134.7	132.8
87.5°	22.9	25.8	33.4	42.0	52.5	63.0	71.6	76.4	79.3	79.3	80.2
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°	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
2.5°	684.9	684.9	685.9	684.9	684.9	685.9	684.9	684.9
5°	709.7	711.6	716.4	718.3	719.3	722.2	722.2	724.1
7.5°	736.5	741.3	746.0	749.9	752.7	756.5	757.5	759.4
10°	761.3	767.1	772.8	778.5	782.3	784.2	786.2	787.1
12.5°	781.4	789.0	796.7	802.4	807.2	810.0	812.9	813.9
15°	795.7	806.2	814.8	822.5	827.2	831.1	833.9	835.8
17.5°	805.3	816.7	826.3	834.9	840.6	844.4	848.2	850.2
20°	808.1	819.6	831.1	839.6	846.3	851.1	854.0	855.9
22.5°	805.3	817.7	829.1	838.7	845.4	851.1	854.0	856.8
25°	797.6	811.0	823.4	833.0	840.6	846.3	849.2	851.1
27.5°	786.2	800.5	812.9	822.5	830.1	835.8	839.6	841.6
30°	769.9	783.3	796.7	806.2	813.9	819.6	823.4	825.3
32.5°	749.9	763.2	775.6	785.2	793.8	798.6	802.4	804.3
35°	725.0	738.4	750.8	759.4	768.0	772.8	776.6	777.6
37.5°	698.3	711.6	723.1	730.8	739.3	743.2	747.9	748.9
40°	668.7	681.1	691.6	699.2	706.9	710.7	713.6	715.5
42.5°	638.1	649.6	660.1	666.8	672.5	676.3	680.1	680.1
45°	608.5	617.1	626.6	632.4	638.1	641.0	643.8	644.8
47.5°	577.9	586.5	594.2	598.0	603.7	605.6	607.5	608.5
50°	548.3	555.9	561.7	565.5	569.3	571.2	573.1	573.1
52.5°	519.6	526.3	531.1	533.0	536.8	537.8	538.8	539.7
55°	492.9	497.7	501.5	502.5	505.3	505.3	507.2	508.2
57.5°	467.1	470.0	472.8	472.8	474.8	474.8	476.7	477.6
60°	441.3	443.2	444.2	444.2	446.1	445.1	447.0	448.0
62.5°	415.5	416.5	416.5	416.5	417.4	417.4	418.4	419.3
65°	389.7	389.7	389.7	389.7	390.7	389.7	391.6	392.6
67.5°	363.9	363.0	363.0	362.0	363.9	363.0	364.9	365.9
70°	337.2	337.2	335.3	335.3	336.2	337.2	338.2	338.2
72.5°	310.5	308.5	308.5	307.6	308.5	309.5	311.4	310.5
75°	282.7	281.8	279.9	278.9	278.9	278.0	278.9	278.0
77.5°	250.3	247.4	243.6	242.6	240.7	239.8	240.7	241.7
80°	212.1	209.2	206.3	205.4	203.5	203.5	203.5	204.4
82.5°	171.9	170.0	167.2	167.2	165.3	165.3	165.3	164.3
85°	127.0	126.1	124.2	124.2	122.3	122.3	122.3	121.3
87.5°	74.5	74.5	72.6	73.6	70.7	70.7	70.7	71.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)