

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: P188400

Luminaire Tested: **22SR-LD2-25-C-UNV-L835-CD1-ST-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188400
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-L835-CD1-ST-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STRAW SKYTRIM.

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2336.0 lumens
Efficiency: N/A
Efficacy: 119.2 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

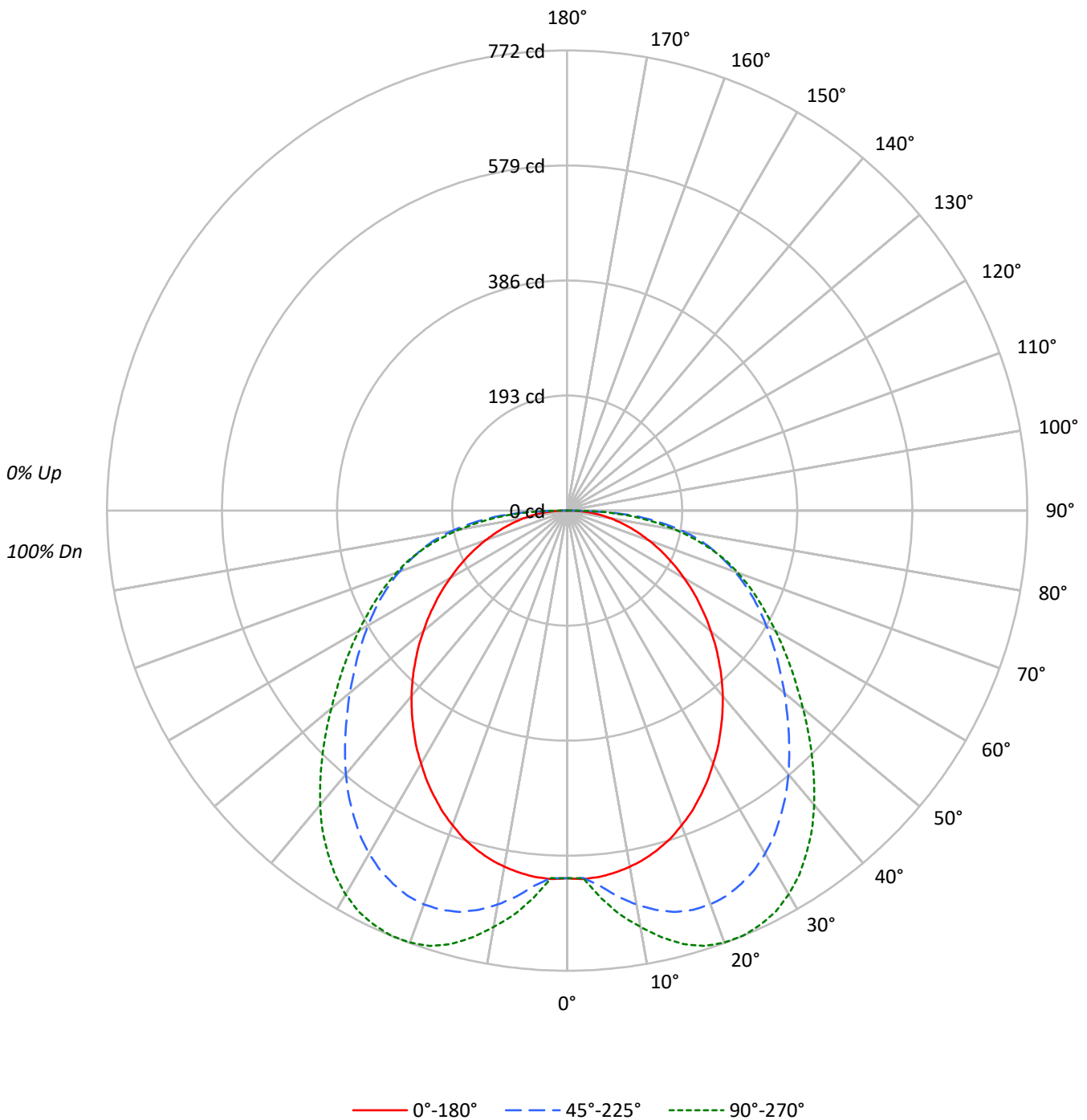
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1808	1808	1808
5°	1815	1858	1919
10°	1805	1997	2110
15°	1785	2115	2284
20°	1752	2192	2404
25°	1708	2234	2479
30°	1657	2248	2516
35°	1607	2235	2506
40°	1554	2209	2466
45°	1494	2179	2407
50°	1436	2169	2353
55°	1380	2194	2339
60°	1326	2259	2365
65°	1283	2381	2452
70°	1246	2566	2609
75°	1227	2864	2835
80°	1233	3311	3108
85°	1301	4078	3675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	2.6
10°-20°	193.1	8.3
20°-30°	309.4	13.2
30°-40°	377.9	16.2
40°-50°	389.1	16.7
50°-60°	360.7	15.4
60°-70°	309.2	13.2
70°-80°	232.6	10.0
80°-90°	102.7	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°	563.8	24.1
0°-40°	941.7	40.3
0°-60°	1691.5	72.4
0°-90°	2336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	617	617	632	646	652	59
15°	589	632	697	738	753	166
25°	528	605	691	746	767	243
35°	449	537	625	680	700	281
45°	361	449	526	567	581	278
55°	270	360	429	452	458	242
65°	185	280	343	351	354	184
75°	108	198	253	252	250	115
85°	39	92	121	112	109	42
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°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	618.7	617.9	617.0	617.9	617.0	617.0	616.2	615.3	617.0	617.0	617.0
5°	617.0	616.2	615.3	616.2	616.2	617.9	618.7	623.0	628.2	631.6	636.8
7.5°	612.7	611.9	611.0	613.6	617.0	623.0	629.9	638.5	646.3	653.2	659.2
10°	606.7	605.8	605.8	611.9	620.5	631.6	641.1	651.4	661.8	671.2	679.8
12.5°	598.9	598.9	599.8	611.0	623.9	637.7	648.9	661.8	674.7	685.9	696.2
15°	588.6	587.8	592.1	607.6	623.9	639.4	654.0	668.7	684.1	697.1	708.2
17.5°	576.6	575.7	584.3	603.2	620.5	638.5	655.7	672.1	688.4	702.2	715.1
20°	561.9	561.9	574.0	596.4	615.3	635.1	653.2	670.4	688.4	703.1	716.8
22.5°	546.5	547.3	562.8	586.0	606.7	627.3	646.3	665.2	683.3	699.6	713.4
25°	528.4	530.1	548.2	572.3	594.6	616.2	636.0	655.7	674.7	691.0	705.7
27.5°	510.3	512.0	533.5	557.6	580.9	602.4	623.0	643.7	663.5	679.8	694.5
30°	489.7	494.0	515.5	540.4	564.5	586.0	607.6	628.2	647.1	664.3	679.8
32.5°	470.7	474.2	498.3	522.4	547.3	568.8	590.3	610.1	629.1	646.3	660.9
35°	449.2	454.4	478.5	502.6	526.7	548.2	569.7	589.5	608.4	624.8	639.4
37.5°	427.7	434.6	457.8	482.8	506.0	527.5	549.0	568.0	586.9	602.4	616.2
40°	406.2	412.2	436.3	460.4	484.5	505.1	525.8	543.9	561.9	577.4	590.3
42.5°	383.8	390.7	414.8	438.0	461.3	481.9	502.6	520.6	537.8	551.6	563.7
45°	360.6	369.2	392.4	415.6	438.9	459.5	479.3	496.5	512.0	525.8	537.0
47.5°	338.2	347.7	370.9	394.1	416.5	436.3	456.1	473.3	487.9	500.0	510.3
50°	315.0	326.2	348.5	370.9	394.1	413.9	432.9	448.3	463.8	475.9	484.5
52.5°	292.6	303.8	327.0	349.4	371.8	391.6	410.5	426.8	440.6	451.8	461.3
55°	270.2	282.3	305.5	327.9	350.2	370.0	389.0	404.5	418.2	429.4	437.2
57.5°	248.7	261.6	284.0	307.2	329.6	349.4	368.3	383.8	396.7	407.0	414.8
60°	226.3	241.0	263.3	285.7	308.9	329.6	347.7	363.2	376.1	385.5	392.4
62.5°	205.7	220.3	242.7	265.9	289.1	309.8	327.9	343.4	355.4	364.9	370.0
65°	185.0	200.5	222.9	246.1	269.4	290.0	308.1	323.6	334.8	343.4	348.5
67.5°	165.2	180.7	203.1	226.3	249.6	270.2	288.3	302.9	314.1	321.8	325.3
70°	145.4	160.9	183.3	206.5	228.9	250.4	268.5	282.3	293.4	299.5	302.1
72.5°	126.5	142.9	164.4	185.9	209.1	229.8	247.8	262.5	271.1	276.2	280.5
75°	108.4	123.9	144.6	166.1	187.6	209.1	226.3	239.2	247.8	253.0	254.7
77.5°	90.4	105.8	125.6	145.4	166.9	186.7	204.0	216.0	222.9	227.2	229.8
80°	73.1	86.9	105.0	123.9	143.7	161.8	177.3	188.5	194.5	196.2	196.2
82.5°	56.8	68.0	83.5	99.8	117.0	133.4	147.2	155.8	160.1	160.9	160.1
85°	38.7	46.5	58.5	71.4	84.3	99.0	111.0	117.0	119.6	121.3	119.6
87.5°	20.7	23.2	30.1	37.9	47.3	56.8	64.5	68.8	71.4	71.4	72.3
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°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	617.0	617.0	617.9	617.0	617.0	617.9	617.0	617.0
5°	639.4	641.1	645.4	647.1	648.0	650.6	650.6	652.3
7.5°	663.5	667.8	672.1	675.5	678.1	681.6	682.4	684.1
10°	685.9	691.0	696.2	701.4	704.8	706.5	708.2	709.1
12.5°	703.9	710.8	717.7	722.9	727.2	729.8	732.3	733.2
15°	716.8	726.3	734.1	740.9	745.2	748.7	751.3	753.0
17.5°	725.4	735.8	744.4	752.1	757.3	760.7	764.2	765.9
20°	728.0	738.4	748.7	756.4	762.5	766.8	769.3	771.1
22.5°	725.4	736.6	747.0	755.6	761.6	766.8	769.3	771.9
25°	718.6	730.6	741.8	750.4	757.3	762.5	765.0	766.8
27.5°	708.2	721.1	732.3	740.9	747.8	753.0	756.4	758.1
30°	693.6	705.7	717.7	726.3	733.2	738.4	741.8	743.5
32.5°	675.5	687.6	698.8	707.4	715.1	719.4	722.9	724.6
35°	653.2	665.2	676.4	684.1	691.9	696.2	699.6	700.5
37.5°	629.1	641.1	651.4	658.3	666.1	669.5	673.8	674.7
40°	602.4	613.6	623.0	629.9	636.8	640.3	642.8	644.6
42.5°	574.9	585.2	594.6	600.7	605.8	609.3	612.7	612.7
45°	548.2	555.9	564.5	569.7	574.9	577.4	580.0	580.9
47.5°	520.6	528.4	535.3	538.7	543.9	545.6	547.3	548.2
50°	494.0	500.8	506.0	509.4	512.9	514.6	516.3	516.3
52.5°	468.1	474.2	478.5	480.2	483.6	484.5	485.4	486.2
55°	444.0	448.3	451.8	452.7	455.2	455.2	457.0	457.8
57.5°	420.8	423.4	426.0	426.0	427.7	427.7	429.4	430.3
60°	397.6	399.3	400.2	400.2	401.9	401.0	402.7	403.6
62.5°	374.3	375.2	375.2	375.2	376.1	376.1	376.9	377.8
65°	351.1	351.1	351.1	351.1	352.0	351.1	352.8	353.7
67.5°	327.9	327.0	327.0	326.2	327.9	327.0	328.7	329.6
70°	303.8	303.8	302.1	302.1	302.9	303.8	304.6	304.6
72.5°	279.7	278.0	278.0	277.1	278.0	278.8	280.5	279.7
75°	254.7	253.9	252.1	251.3	251.3	250.4	251.3	250.4
77.5°	225.5	222.9	219.4	218.6	216.9	216.0	216.9	217.7
80°	191.0	188.5	185.9	185.0	183.3	183.3	183.3	184.2
82.5°	154.9	153.2	150.6	150.6	148.9	148.9	148.9	148.0
85°	114.5	113.6	111.9	111.9	110.2	110.2	110.2	109.3
87.5°	67.1	67.1	65.4	66.3	63.7	63.7	63.7	64.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)