

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: P188396

Luminaire Tested: **22SR-LD2-25-C-UNV-L840-CD1-ST-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188396
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-L840-CD1-ST-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STRAW SKYTRIM.

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2382.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

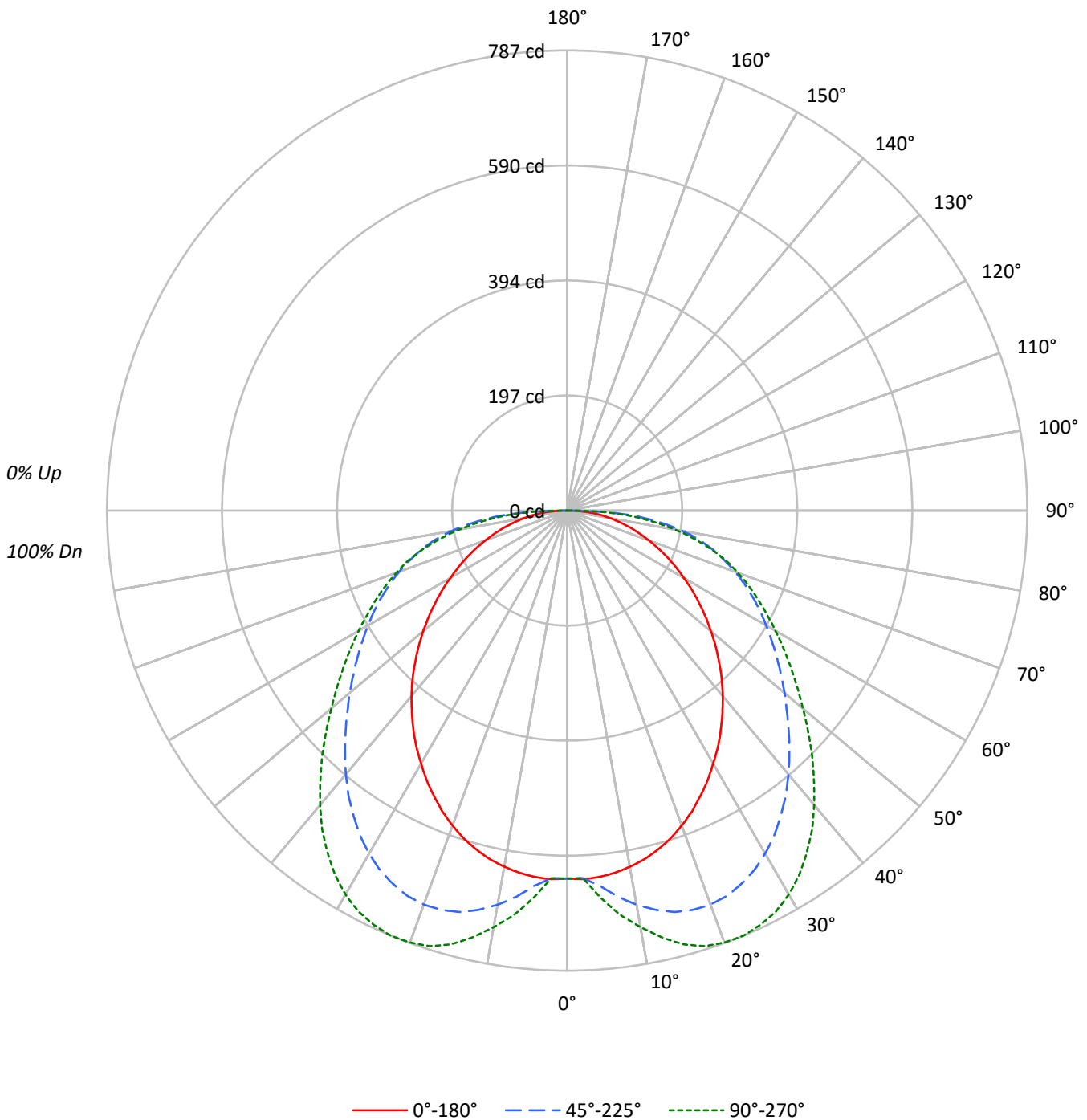
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1844	1844	1844
5°	1851	1894	1956
10°	1840	2037	2151
15°	1821	2156	2329
20°	1787	2235	2451
25°	1742	2278	2528
30°	1689	2292	2565
35°	1639	2279	2555
40°	1584	2252	2514
45°	1524	2222	2454
50°	1464	2212	2400
55°	1407	2237	2385
60°	1353	2304	2411
65°	1308	2427	2501
70°	1270	2616	2661
75°	1252	2921	2891
80°	1259	3376	3169
85°	1328	4159	3745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	2.6
10°-20°	196.9	8.3
20°-30°	315.5	13.2
30°-40°	385.3	16.2
40°-50°	396.8	16.7
50°-60°	367.8	15.4
60°-70°	315.3	13.2
70°-80°	237.1	10.0
80°-90°	104.8	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°	574.9	24.1
0°-40°	960.3	40.3
0°-60°	1724.9	72.4
0°-90°	2382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	629	629	644	659	665	60
15°	600	644	711	752	768	169
25°	539	617	705	761	782	248
35°	458	548	637	694	714	286
45°	368	458	536	578	592	284
55°	276	367	438	461	467	247
65°	189	285	350	358	361	187
75°	111	202	258	257	255	117
85°	40	93	124	114	111	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°	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2
2.5°	630.9	630.0	629.2	630.0	629.2	629.2	628.3	627.4	629.2	629.2	629.2
5°	629.2	628.3	627.4	628.3	628.3	630.0	630.9	635.3	640.6	644.1	649.4
7.5°	624.8	623.9	623.0	625.7	629.2	635.3	642.3	651.1	659.0	666.0	672.2
10°	618.6	617.8	617.8	623.9	632.7	644.1	653.7	664.3	674.8	684.5	693.2
12.5°	610.7	610.7	611.6	623.0	636.2	650.2	661.6	674.8	688.0	699.4	709.9
15°	600.2	599.3	603.7	619.5	636.2	652.0	666.9	681.8	697.6	710.8	722.2
17.5°	587.9	587.0	595.8	615.1	632.7	651.1	668.7	685.3	702.0	716.0	729.2
20°	573.0	573.0	585.3	608.1	627.4	647.6	666.0	683.6	702.0	716.9	731.0
22.5°	557.2	558.1	573.9	597.6	618.6	639.7	659.0	678.3	696.7	713.4	727.4
25°	538.8	540.5	559.0	583.5	606.4	628.3	648.5	668.7	688.0	704.6	719.6
27.5°	520.4	522.1	544.1	568.6	592.3	614.3	635.3	656.4	676.6	693.2	708.1
30°	499.3	503.7	525.6	551.1	575.6	597.6	619.5	640.6	659.9	677.4	693.2
32.5°	480.0	483.5	508.1	532.6	558.1	580.0	602.0	622.1	641.5	659.0	673.9
35°	458.1	463.3	487.9	512.5	537.0	559.0	580.9	601.1	620.4	637.1	652.0
37.5°	436.1	443.1	466.8	492.3	516.0	537.9	559.8	579.2	598.5	614.3	628.3
40°	414.2	420.3	444.9	469.5	494.0	515.1	536.2	554.6	573.0	588.8	602.0
42.5°	391.4	398.4	423.0	446.6	470.3	491.4	512.5	530.9	548.4	562.5	574.8
45°	367.7	376.4	400.1	423.8	447.5	468.6	488.8	506.3	522.1	536.2	547.6
47.5°	344.9	354.5	378.2	401.9	424.7	444.9	465.1	482.6	497.5	509.8	520.4
50°	321.2	332.6	355.4	378.2	401.9	422.1	441.4	457.2	473.0	485.3	494.0
52.5°	298.4	309.8	333.5	356.3	379.1	399.3	418.6	435.2	449.3	460.7	470.3
55°	275.5	287.8	311.5	334.3	357.1	377.3	396.6	412.4	426.5	437.9	445.8
57.5°	253.6	266.8	289.6	313.3	336.1	356.3	375.6	391.4	404.5	415.1	423.0
60°	230.8	245.7	268.5	291.3	315.0	336.1	354.5	370.3	383.5	393.1	400.1
62.5°	209.7	224.6	247.5	271.1	294.8	315.9	334.3	350.1	362.4	372.1	377.3
65°	188.7	204.5	227.3	251.0	274.7	295.7	314.1	329.9	341.3	350.1	355.4
67.5°	168.5	184.3	207.1	230.8	254.5	275.5	294.0	308.9	320.3	328.2	331.7
70°	148.3	164.1	186.9	210.6	233.4	255.4	273.8	287.8	299.2	305.4	308.0
72.5°	129.0	145.7	167.6	189.5	213.2	234.3	252.7	267.6	276.4	281.7	286.1
75°	110.6	126.4	147.4	169.4	191.3	213.2	230.8	243.9	252.7	258.0	259.7
77.5°	92.1	107.9	128.1	148.3	170.2	190.4	208.0	220.3	227.3	231.7	234.3
80°	74.6	88.6	107.1	126.4	146.5	165.0	180.8	192.2	198.3	200.1	200.1
82.5°	57.9	69.3	85.1	101.8	119.3	136.0	150.1	158.8	163.2	164.1	163.2
85°	39.5	47.4	59.7	72.8	86.0	100.9	113.2	119.3	122.0	123.7	122.0
87.5°	21.1	23.7	30.7	38.6	48.3	57.9	65.8	70.2	72.8	72.8	73.7
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°	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2
2.5°	629.2	629.2	630.0	629.2	629.2	630.0	629.2	629.2
5°	652.0	653.7	658.1	659.9	660.8	663.4	663.4	665.1
7.5°	676.6	680.9	685.3	688.8	691.5	695.0	695.9	697.6
10°	699.4	704.6	709.9	715.2	718.7	720.4	722.2	723.1
12.5°	717.8	724.8	731.8	737.1	741.5	744.1	746.8	747.6
15°	731.0	740.6	748.5	755.5	759.9	763.4	766.1	767.8
17.5°	739.7	750.3	759.0	766.9	772.2	775.7	779.2	781.0
20°	742.4	752.9	763.4	771.3	777.5	781.9	784.5	786.2
22.5°	739.7	751.1	761.7	770.4	776.6	781.9	784.5	787.1
25°	732.7	745.0	756.4	765.2	772.2	777.5	780.1	781.9
27.5°	722.2	735.3	746.8	755.5	762.5	767.8	771.3	773.1
30°	707.3	719.6	731.8	740.6	747.6	752.9	756.4	758.2
32.5°	688.8	701.1	712.5	721.3	729.2	733.6	737.1	738.9
35°	666.0	678.3	689.7	697.6	705.5	709.9	713.4	714.3
37.5°	641.5	653.7	664.3	671.3	679.2	682.7	687.1	688.0
40°	614.3	625.7	635.3	642.3	649.4	652.9	655.5	657.2
42.5°	586.2	596.7	606.4	612.5	617.8	621.3	624.8	624.8
45°	559.0	566.9	575.6	580.9	586.2	588.8	591.4	592.3
47.5°	530.9	538.8	545.8	549.3	554.6	556.3	558.1	559.0
50°	503.7	510.7	516.0	519.5	523.0	524.7	526.5	526.5
52.5°	477.4	483.5	487.9	489.6	493.2	494.0	494.9	495.8
55°	452.8	457.2	460.7	461.6	464.2	464.2	466.0	466.8
57.5°	429.1	431.7	434.4	434.4	436.1	436.1	437.9	438.8
60°	405.4	407.2	408.0	408.0	409.8	408.9	410.7	411.5
62.5°	381.7	382.6	382.6	382.6	383.5	383.5	384.3	385.2
65°	358.0	358.0	358.0	358.0	358.9	358.0	359.8	360.7
67.5°	334.3	333.5	333.5	332.6	334.3	333.5	335.2	336.1
70°	309.8	309.8	308.0	308.0	308.9	309.8	310.6	310.6
72.5°	285.2	283.4	283.4	282.6	283.4	284.3	286.1	285.2
75°	259.7	258.9	257.1	256.2	256.2	255.4	256.2	255.4
77.5°	229.9	227.3	223.8	222.9	221.1	220.3	221.1	222.0
80°	194.8	192.2	189.5	188.7	186.9	186.9	186.9	187.8
82.5°	158.0	156.2	153.6	153.6	151.8	151.8	151.8	150.9
85°	116.7	115.8	114.1	114.1	112.3	112.3	112.3	111.4
87.5°	68.4	68.4	66.7	67.6	64.9	64.9	64.9	65.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)