

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: P188373

Luminaire Tested: **22SR-LD2-25-C-UNV-L830-CD1-SO-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24795)
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-L830-CD1-SO-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STORARO ORANGE SKYTRIM.

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1702.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.85 / 1.71
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

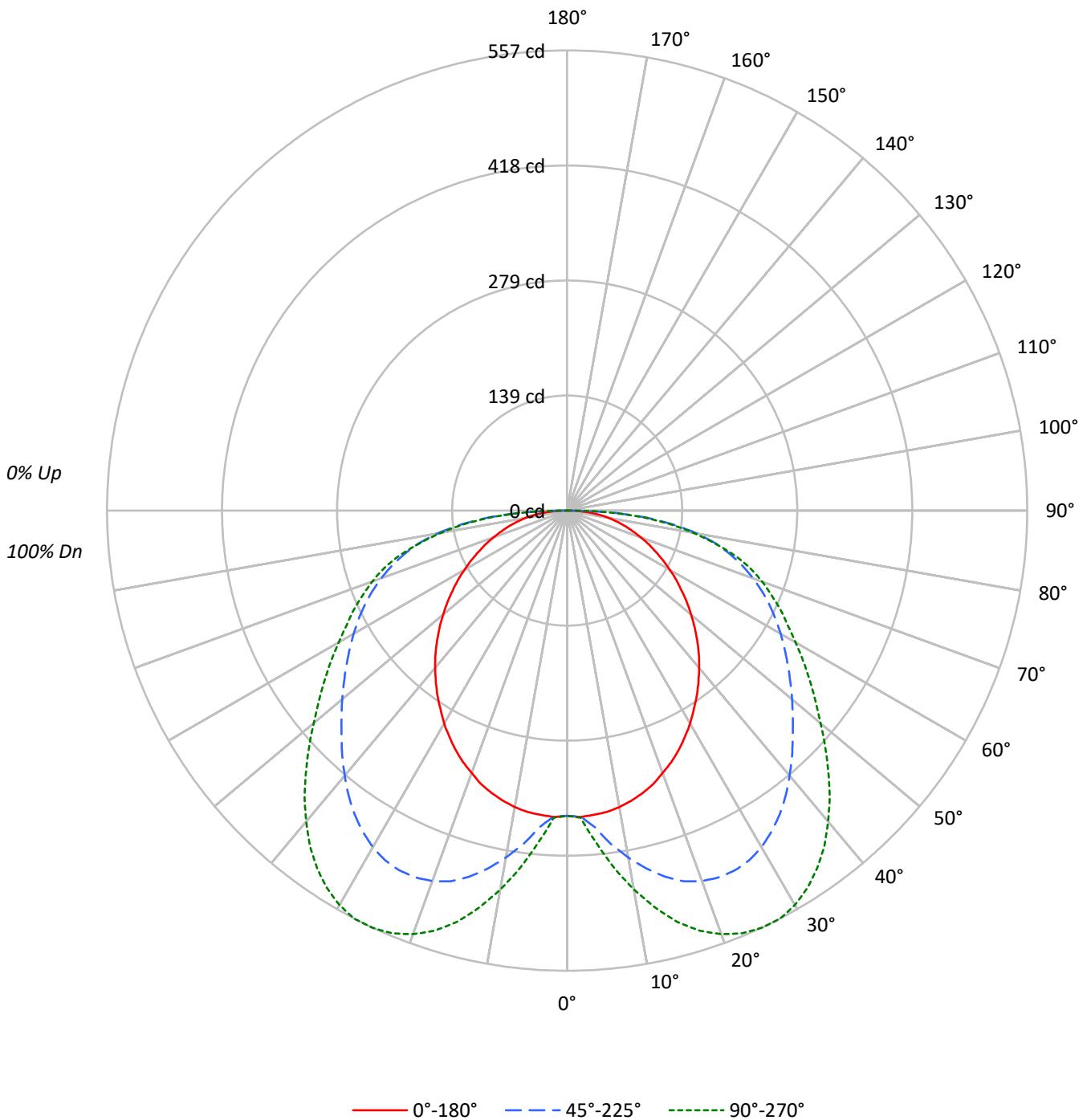
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	91	104	99	94	90	94	90	87	90	87	84	87	84	82	79
2	96	86	79	72	93	85	77	71	81	75	70	77	72	68	74	70	66	64
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	60	55	53
4	79	66	56	49	77	64	56	49	62	54	48	59	53	47	57	51	46	44
5	72	58	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40	38
6	67	52	43	36	65	51	42	36	49	41	35	48	41	35	46	40	35	32
7	62	47	38	31	60	46	38	31	45	37	31	43	36	31	42	35	31	28
8	57	43	34	28	56	42	34	28	41	33	27	40	32	27	38	32	27	25
9	53	39	31	25	52	39	30	25	37	30	25	36	29	24	35	29	24	22
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1083	1083	1083
5°	1087	1131	1188
10°	1084	1268	1385
15°	1073	1392	1564
20°	1054	1488	1701
25°	1033	1553	1801
30°	1008	1592	1866
35°	979	1605	1889
40°	951	1602	1879
45°	923	1600	1853
50°	893	1620	1825
55°	865	1666	1832
60°	841	1750	1872
65°	822	1874	1978
70°	815	2051	2151
75°	822	2314	2380
80°	859	2688	2619
85°	925	3170	3056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	2.2
10°-20°	126.5	7.4
20°-30°	212.8	12.5
30°-40°	268.1	15.8
40°-50°	282.7	16.6
50°-60°	269.4	15.8
60°-70°	238.4	14.0
70°-80°	185.2	10.9
80°-90°	81.0	4.8
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°	377.2	22.2
0°-40°	645.4	37.9
0°-60°	1197.5	70.4
0°-90°	1702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	370	370	370	370	370	
5°	370	370	385	399	404	35
15°	354	395	459	501	516	100
25°	320	394	480	537	557	147
35°	274	360	449	507	528	171
45°	223	307	386	432	447	172
55°	169	255	326	353	359	152
65°	118	205	270	281	285	118
75°	73	150	204	209	210	77
85°	28	68	94	91	91	29
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°	369.6	369.6	369.6	369.6	369.6	369.6	369.6	369.6	369.6	369.6	369.6
2.5°	371.2	371.2	370.4	370.4	370.4	370.4	369.6	369.6	370.4	370.4	370.4
5°	369.6	369.6	369.6	369.6	369.6	371.2	372.9	377.1	380.4	384.6	388.7
7.5°	367.9	367.0	367.0	368.7	372.1	377.9	384.6	392.9	400.4	407.1	412.9
10°	364.5	364.5	364.5	369.6	377.9	388.7	398.7	407.9	417.1	426.3	435.5
12.5°	359.5	359.5	361.2	371.2	383.7	397.1	408.8	421.3	433.8	443.8	454.6
15°	353.7	353.7	357.9	372.1	387.9	402.9	417.9	432.1	446.3	458.8	470.5
17.5°	347.0	346.2	354.5	372.1	389.6	407.1	423.8	440.5	456.3	470.5	483.0
20°	337.9	338.7	350.4	370.4	389.6	409.6	427.1	444.6	462.1	477.2	490.5
22.5°	329.5	331.2	345.4	367.0	387.9	408.8	427.9	446.3	464.6	480.5	494.7
25°	319.5	321.2	337.9	361.2	382.9	404.6	424.6	444.6	463.0	480.5	495.5
27.5°	308.7	311.2	330.3	353.7	377.1	398.7	419.6	439.6	459.6	477.2	492.2
30°	297.8	301.1	322.0	346.2	368.7	391.2	412.9	433.0	453.0	470.5	486.3
32.5°	285.3	289.5	312.0	336.2	359.5	381.2	402.9	423.8	443.0	460.5	476.3
35°	273.6	278.6	301.1	325.3	348.7	371.2	392.1	412.9	431.3	448.8	464.6
37.5°	261.1	266.1	289.5	313.7	336.2	358.7	379.6	399.6	417.9	434.6	449.6
40°	248.6	254.4	277.0	301.1	322.8	345.4	365.4	385.4	402.9	418.8	433.8
42.5°	236.1	242.8	265.3	288.6	310.3	332.0	352.0	371.2	387.9	402.9	416.3
45°	222.7	230.2	251.9	275.3	297.0	317.8	337.9	356.2	372.1	386.2	399.6
47.5°	209.4	217.7	239.4	262.8	283.6	304.5	322.8	341.2	356.2	370.4	382.1
50°	196.0	205.2	226.9	249.4	270.3	291.1	309.5	327.0	341.2	355.4	366.2
52.5°	182.7	193.5	215.2	236.9	257.8	277.8	296.1	312.8	327.0	340.4	350.4
55°	169.3	181.0	202.7	224.4	245.3	265.3	282.8	300.3	313.7	326.2	335.3
57.5°	156.8	168.5	190.2	211.9	232.7	252.8	270.3	287.0	300.3	312.0	321.2
60°	143.5	156.8	177.7	199.4	220.2	240.2	257.8	274.5	287.8	298.6	306.2
62.5°	131.0	144.3	166.0	186.9	207.7	227.7	245.3	261.9	274.5	284.5	291.1
65°	118.5	132.6	153.5	174.3	195.2	215.2	232.7	248.6	261.1	270.3	276.1
67.5°	106.8	121.0	141.8	161.8	182.7	201.9	220.2	235.2	246.1	255.3	259.4
70°	95.1	109.3	129.3	149.3	169.3	188.5	206.0	221.1	231.9	239.4	243.6
72.5°	83.4	97.6	116.8	136.0	156.0	174.3	191.9	206.0	216.1	222.7	226.1
75°	72.6	85.9	104.3	122.6	141.0	159.3	176.0	189.4	198.5	204.4	207.7
77.5°	61.7	75.1	91.8	108.4	126.0	143.5	159.3	171.0	180.2	184.4	187.7
80°	50.9	62.6	77.6	92.6	109.3	124.3	139.3	149.3	156.8	159.3	160.2
82.5°	40.0	49.2	61.7	74.2	88.4	101.8	114.3	121.8	128.5	129.3	130.1
85°	27.5	33.4	42.5	51.7	62.6	73.4	83.4	89.3	94.3	94.3	95.1
87.5°	14.2	15.8	20.0	25.9	32.5	38.4	45.9	48.4	51.7	52.6	52.6
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°	369.6	369.6	369.6	369.6	369.6	369.6	369.6	369.6
2.5°	371.2	371.2	371.2	372.1	372.1	372.1	372.1	372.1
5°	392.1	394.6	397.9	399.6	401.3	402.9	403.8	403.8
7.5°	417.1	421.3	426.3	429.6	432.1	434.6	436.3	436.3
10°	441.3	448.0	452.1	458.0	461.3	463.0	465.5	465.5
12.5°	462.1	469.7	476.3	483.0	486.3	488.8	492.2	492.2
15°	479.7	489.7	497.2	504.7	508.9	512.2	514.7	515.5
17.5°	493.8	503.9	512.2	520.5	525.5	529.7	532.2	533.1
20°	502.2	513.9	523.0	531.4	537.2	542.2	544.7	545.6
22.5°	508.0	519.7	529.7	538.9	545.6	550.6	553.1	553.9
25°	508.9	521.4	532.2	541.4	548.9	553.9	556.4	557.2
27.5°	506.4	519.7	530.6	540.6	548.1	553.1	556.4	557.2
30°	500.5	513.9	525.5	535.6	542.2	548.1	550.6	551.4
32.5°	490.5	503.9	515.5	524.7	532.2	538.1	540.6	541.4
35°	478.8	491.3	502.2	512.2	518.9	524.7	528.0	528.0
37.5°	463.0	475.5	486.3	495.5	502.2	508.0	510.5	511.4
40°	446.3	458.0	468.0	477.2	483.8	488.8	491.3	491.3
42.5°	428.8	440.5	449.6	457.1	463.0	468.0	469.7	470.5
45°	410.4	420.4	428.8	435.5	440.5	444.6	446.3	447.1
47.5°	392.9	402.1	409.6	415.4	419.6	422.1	422.9	423.8
50°	375.4	383.7	389.6	394.6	397.1	399.6	400.4	400.4
52.5°	358.7	366.2	370.4	373.7	376.2	378.7	378.7	378.7
55°	342.9	348.7	352.0	354.5	356.2	357.9	358.7	358.7
57.5°	327.0	331.2	333.7	336.2	337.0	337.9	337.9	338.7
60°	311.2	314.5	316.2	317.8	317.8	318.7	319.5	319.5
62.5°	295.3	297.0	298.6	299.5	299.5	301.1	301.1	301.1
65°	278.6	280.3	281.1	281.1	282.0	283.6	283.6	285.3
67.5°	261.9	262.8	262.8	263.6	264.4	266.1	266.1	267.8
70°	245.3	246.1	245.3	246.9	246.9	248.6	249.4	251.1
72.5°	227.7	227.7	227.7	228.6	229.4	231.1	231.9	232.7
75°	207.7	208.6	208.6	208.6	207.7	208.6	208.6	210.2
77.5°	185.2	183.5	181.9	181.9	180.2	181.0	181.0	182.7
80°	157.7	156.0	154.3	154.3	152.7	154.3	155.2	155.2
82.5°	127.6	126.8	125.1	125.1	124.3	124.3	124.3	125.1
85°	93.4	92.6	90.9	90.9	90.1	90.1	90.9	90.9
87.5°	51.7	50.9	50.1	50.1	48.4	49.2	50.9	50.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)