

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: P188376

Luminaire Tested: **22SR-LD2-20-C-UNV-L850-CD1-SO-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188376
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-LD2-20-C-UNV-L850-CD1-SO-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STORARO ORANGE SKYTRIM.

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1548.0 lumens
Efficiency: N/A
Efficacy: 100.5 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

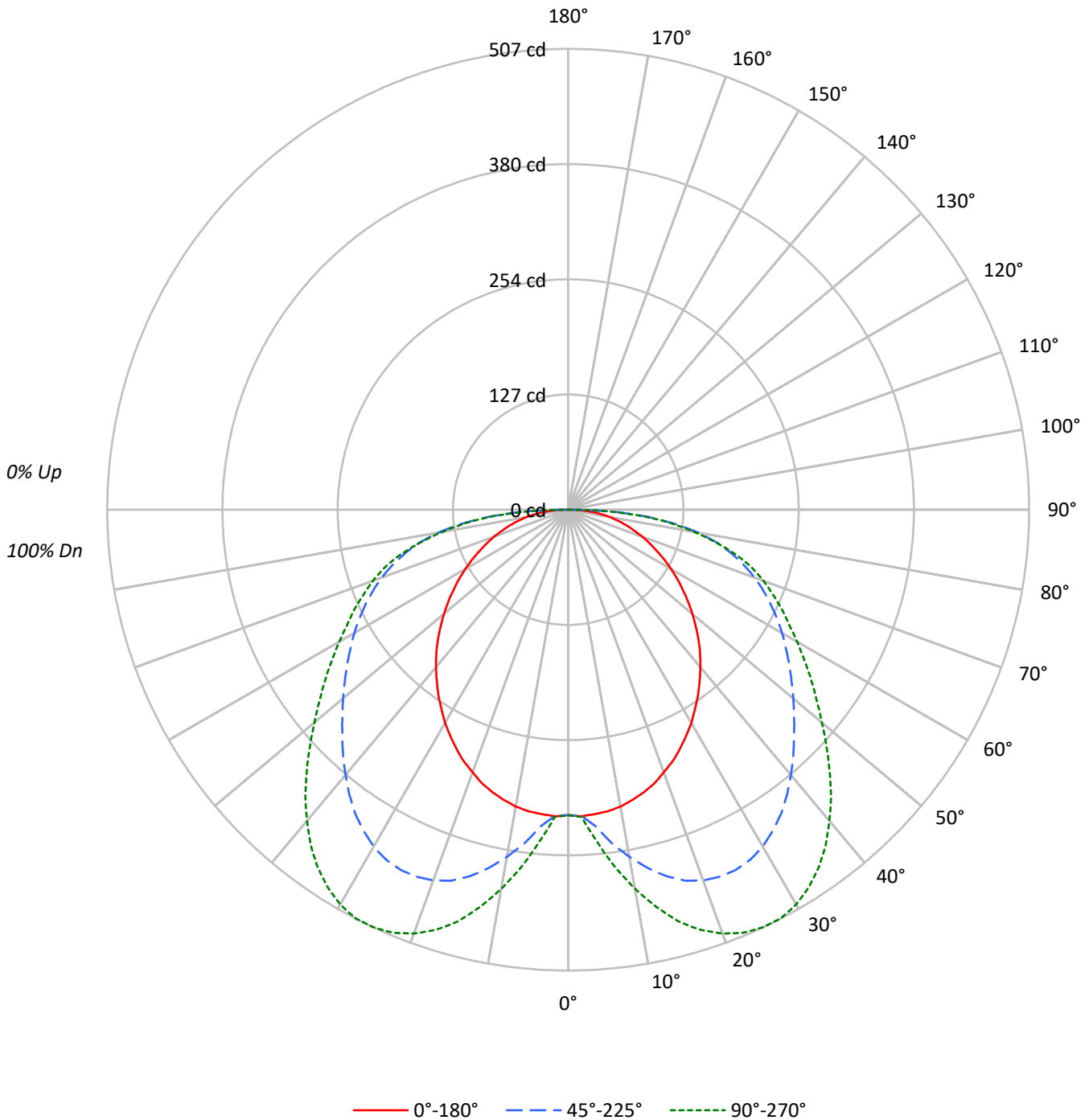
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	985	985	985
5°	989	1029	1080
10°	987	1154	1260
15°	976	1266	1422
20°	958	1353	1547
25°	940	1413	1638
30°	917	1448	1697
35°	890	1460	1718
40°	865	1457	1709
45°	840	1456	1685
50°	813	1473	1660
55°	787	1516	1666
60°	765	1592	1703
65°	747	1704	1799
70°	741	1866	1957
75°	747	2105	2165
80°	781	2445	2381
85°	840	2881	2780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	2.2
10°-20°	115.1	7.4
20°-30°	193.5	12.5
30°-40°	243.9	15.8
40°-50°	257.2	16.6
50°-60°	245.0	15.8
60°-70°	216.8	14.0
70°-80°	168.4	10.9
80°-90°	73.6	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°	343.1	22.2
0°-40°	587.0	37.9
0°-60°	1089.1	70.4
0°-90°	1548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	336	336	336	336	336	
5°	336	337	350	363	367	32
15°	322	360	417	456	469	91
25°	291	358	437	488	507	134
35°	249	327	408	461	480	156
45°	203	280	351	393	407	156
55°	154	232	297	321	326	138
65°	108	187	246	256	260	107
75°	66	137	186	190	191	70
85°	25	62	86	83	83	27
90°	0	0	0	0	0	



TEST NUMBER: P188376

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	336.1	336.1	336.1	336.1	336.1	336.1	336.1	336.1	336.1	336.1	336.1
2.5°	337.6	337.6	336.9	336.9	336.9	336.9	336.1	336.1	336.9	336.9	336.9
5°	336.1	336.1	336.1	336.1	336.1	337.6	339.1	342.9	346.0	349.8	353.6
7.5°	334.6	333.8	333.8	335.4	338.4	343.7	349.8	357.4	364.2	370.3	375.6
10°	331.6	331.6	331.6	336.1	343.7	353.6	362.7	371.0	379.4	387.7	396.1
12.5°	327.0	327.0	328.5	337.6	349.0	361.2	371.8	383.2	394.5	403.6	413.5
15°	321.7	321.7	325.5	338.4	352.8	366.5	380.1	393.0	405.9	417.3	427.9
17.5°	315.6	314.9	322.5	338.4	354.3	370.3	385.4	400.6	415.0	427.9	439.3
20°	307.3	308.0	318.7	336.9	354.3	372.5	388.5	404.4	420.3	434.0	446.1
22.5°	299.7	301.2	314.1	333.8	352.8	371.8	389.2	405.9	422.6	437.0	449.9
25°	290.6	292.1	307.3	328.5	348.3	368.0	386.2	404.4	421.1	437.0	450.7
27.5°	280.7	283.0	300.5	321.7	342.9	362.7	381.6	399.8	418.1	434.0	447.6
30°	270.9	273.9	292.9	314.9	335.4	355.8	375.6	393.8	412.0	427.9	442.3
32.5°	259.5	263.3	283.8	305.8	327.0	346.7	366.5	385.4	402.9	418.8	433.2
35°	248.9	253.4	273.9	295.9	317.1	337.6	356.6	375.6	392.3	408.2	422.6
37.5°	237.5	242.0	263.3	285.3	305.8	326.2	345.2	363.4	380.1	395.3	409.0
40°	226.1	231.4	251.9	273.9	293.6	314.1	332.3	350.5	366.5	380.9	394.5
42.5°	214.7	220.8	241.3	262.5	282.2	302.0	320.2	337.6	352.8	366.5	378.6
45°	202.6	209.4	229.1	250.4	270.1	289.1	307.3	324.0	338.4	351.3	363.4
47.5°	190.4	198.0	217.8	239.0	258.0	276.9	293.6	310.3	324.0	336.9	347.5
50°	178.3	186.6	206.4	226.9	245.8	264.8	281.5	297.4	310.3	323.2	333.1
52.5°	166.2	176.0	195.7	215.5	234.4	252.7	269.3	284.5	297.4	309.6	318.7
55°	154.0	164.6	184.4	204.1	223.1	241.3	257.2	273.1	285.3	296.7	305.0
57.5°	142.6	153.3	173.0	192.7	211.7	229.9	245.8	261.0	273.1	283.8	292.1
60°	130.5	142.6	161.6	181.3	200.3	218.5	234.4	249.6	261.8	271.6	278.5
62.5°	119.1	131.3	151.0	170.0	188.9	207.1	223.1	238.2	249.6	258.7	264.8
65°	107.7	120.6	139.6	158.6	177.5	195.7	211.7	226.1	237.5	245.8	251.1
67.5°	97.1	110.0	129.0	147.2	166.2	183.6	200.3	214.0	223.8	232.2	236.0
70°	86.5	99.4	117.6	135.8	154.0	171.5	187.4	201.1	210.9	217.8	221.5
72.5°	75.9	88.8	106.2	123.7	141.9	158.6	174.5	187.4	196.5	202.6	205.6
75°	66.0	78.1	94.8	111.5	128.2	144.9	160.1	172.2	180.6	185.9	188.9
77.5°	56.1	68.3	83.5	98.6	114.6	130.5	144.9	155.5	163.9	167.7	170.7
80°	46.3	56.9	70.6	84.2	99.4	113.0	126.7	135.8	142.6	144.9	145.7
82.5°	36.4	44.8	56.1	67.5	80.4	92.6	103.9	110.8	116.8	117.6	118.4
85°	25.0	30.3	38.7	47.0	56.9	66.8	75.9	81.2	85.7	85.7	86.5
87.5°	12.9	14.4	18.2	23.5	29.6	34.9	41.7	44.0	47.0	47.8	47.8
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: P188376

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L850-CD1-SO-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	336.1	336.1	336.1	336.1	336.1	336.1	336.1	336.1
2.5°	337.6	337.6	337.6	338.4	338.4	338.4	338.4	338.4
5°	356.6	358.9	361.9	363.4	364.9	366.5	367.2	367.2
7.5°	379.4	383.2	387.7	390.7	393.0	395.3	396.8	396.8
10°	401.4	407.4	411.2	416.5	419.6	421.1	423.4	423.4
12.5°	420.3	427.2	433.2	439.3	442.3	444.6	447.6	447.6
15°	436.3	445.4	452.2	459.0	462.8	465.9	468.1	468.9
17.5°	449.2	458.3	465.9	473.4	478.0	481.8	484.1	484.8
20°	456.7	467.4	475.7	483.3	488.6	493.2	495.4	496.2
22.5°	462.1	472.7	481.8	490.1	496.2	500.8	503.0	503.8
25°	462.8	474.2	484.1	492.4	499.2	503.8	506.1	506.8
27.5°	460.5	472.7	482.5	491.7	498.5	503.0	506.1	506.8
30°	455.2	467.4	478.0	487.1	493.2	498.5	500.8	501.5
32.5°	446.1	458.3	468.9	477.2	484.1	489.4	491.7	492.4
35°	435.5	446.9	456.7	465.9	471.9	477.2	480.3	480.3
37.5°	421.1	432.5	442.3	450.7	456.7	462.1	464.3	465.1
40°	405.9	416.5	425.6	434.0	440.1	444.6	446.9	446.9
42.5°	390.0	400.6	409.0	415.8	421.1	425.6	427.2	427.9
45°	373.3	382.4	390.0	396.1	400.6	404.4	405.9	406.7
47.5°	357.4	365.7	372.5	377.8	381.6	383.9	384.7	385.4
50°	341.4	349.0	354.3	358.9	361.2	363.4	364.2	364.2
52.5°	326.2	333.1	336.9	339.9	342.2	344.5	344.5	344.5
55°	311.8	317.1	320.2	322.5	324.0	325.5	326.2	326.2
57.5°	297.4	301.2	303.5	305.8	306.5	307.3	307.3	308.0
60°	283.0	286.0	287.6	289.1	289.1	289.8	290.6	290.6
62.5°	268.6	270.1	271.6	272.4	272.4	273.9	273.9	273.9
65°	253.4	254.9	255.7	255.7	256.4	258.0	258.0	259.5
67.5°	238.2	239.0	239.0	239.8	240.5	242.0	242.0	243.5
70°	223.1	223.8	223.1	224.6	224.6	226.1	226.9	228.4
72.5°	207.1	207.1	207.1	207.9	208.6	210.2	210.9	211.7
75°	188.9	189.7	189.7	189.7	188.9	189.7	189.7	191.2
77.5°	168.4	166.9	165.4	165.4	163.9	164.6	164.6	166.2
80°	143.4	141.9	140.4	140.4	138.8	140.4	141.1	141.1
82.5°	116.1	115.3	113.8	113.8	113.0	113.0	113.0	113.8
85°	85.0	84.2	82.7	82.7	81.9	81.9	82.7	82.7
87.5°	47.0	46.3	45.5	45.5	44.0	44.8	46.3	45.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)