

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: P188371

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188371  
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-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**

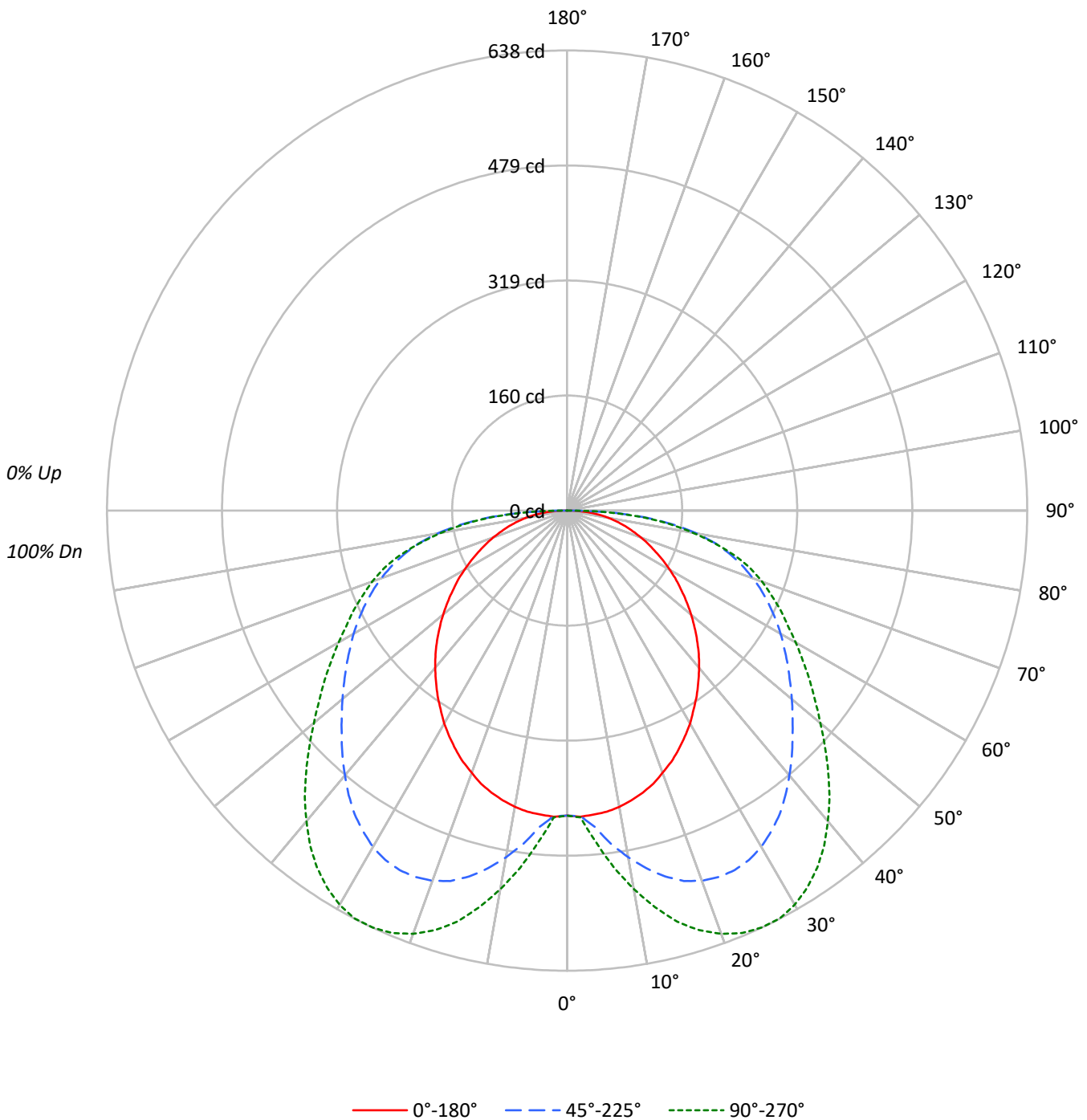
Lumens per Lamp: N/A  
Luminaire Lumens: 1948.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.85 / 1.71  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1239	1239	1239
5°	1244	1295	1359
10°	1241	1452	1585
15°	1228	1593	1790
20°	1206	1703	1947
25°	1182	1778	2062
30°	1153	1822	2135
35°	1120	1837	2162
40°	1088	1833	2151
45°	1056	1832	2121
50°	1023	1854	2089
55°	990	1907	2098
60°	962	2003	2143
65°	940	2144	2264
70°	932	2347	2462
75°	941	2648	2724
80°	982	3078	2997
85°	1059	3627	3500



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.4	2.2
10°-20°	144.8	7.4
20°-30°	243.5	12.5
30°-40°	306.9	15.8
40°-50°	323.6	16.6
50°-60°	308.3	15.8
60°-70°	272.8	14.0
70°-80°	211.9	10.9
80°-90°	92.7	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°	431.7	22.2
0°-40°	738.6	37.9
0°-60°	1370.6	70.4
0°-90°	1948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	423	423	423	423	423	
5°	423	424	440	456	462	40
15°	405	453	525	573	590	114
25°	366	451	550	614	638	168
35°	313	412	514	580	604	196
45°	255	352	442	495	512	197
55°	194	292	373	404	411	174
65°	136	235	309	322	326	135
75°	83	172	234	239	241	88
85°	32	78	108	104	104	33
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°	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0
2.5°	424.9	424.9	423.9	423.9	423.9	423.9	423.0	423.0	423.9	423.9	423.9
5°	423.0	423.0	423.0	423.0	423.0	424.9	426.8	431.6	435.4	440.2	444.9
7.5°	421.1	420.1	420.1	422.0	425.8	432.5	440.2	449.7	458.3	465.9	472.6
10°	417.2	417.2	417.2	423.0	432.5	444.9	456.4	466.9	477.4	487.9	498.4
12.5°	411.5	411.5	413.4	424.9	439.2	454.5	467.8	482.2	496.5	507.9	520.4
15°	404.8	404.8	409.6	425.8	444.0	461.2	478.3	494.6	510.8	525.1	538.5
17.5°	397.2	396.2	405.8	425.8	445.9	465.9	485.0	504.1	522.3	538.5	552.8
20°	386.7	387.6	401.0	423.9	445.9	468.8	488.8	508.9	528.9	546.1	561.4
22.5°	377.1	379.0	395.3	420.1	444.0	467.8	489.8	510.8	531.8	549.9	566.2
25°	365.7	367.6	386.7	413.4	438.2	463.1	486.0	508.9	529.9	549.9	567.1
27.5°	353.3	356.1	378.1	404.8	431.6	456.4	480.3	503.2	526.1	546.1	563.3
30°	340.9	344.7	368.5	396.2	422.0	447.8	472.6	495.5	518.4	538.5	556.6
32.5°	326.5	331.3	357.1	384.8	411.5	436.3	461.2	485.0	507.0	527.0	545.2
35°	313.2	318.9	344.7	372.4	399.1	424.9	448.7	472.6	493.6	513.7	531.8
37.5°	298.8	304.6	331.3	359.0	384.8	410.6	434.4	457.3	478.3	497.4	514.6
40°	284.5	291.2	317.0	344.7	369.5	395.3	418.2	441.1	461.2	479.3	496.5
42.5°	270.2	277.8	303.6	330.4	355.2	380.0	402.9	424.9	444.0	461.2	476.4
45°	254.9	263.5	288.3	315.1	339.9	363.8	386.7	407.7	425.8	442.1	457.3
47.5°	239.6	249.2	274.0	300.8	324.6	348.5	369.5	390.5	407.7	423.9	437.3
50°	224.4	234.9	259.7	285.5	309.3	333.2	354.2	374.3	390.5	406.7	419.1
52.5°	209.1	221.5	246.3	271.2	295.0	317.9	338.9	358.0	374.3	389.5	401.0
55°	193.8	207.2	232.0	256.8	280.7	303.6	323.7	343.7	359.0	373.3	383.8
57.5°	179.5	192.9	217.7	242.5	266.4	289.3	309.3	328.4	343.7	357.1	367.6
60°	164.2	179.5	203.4	228.2	252.1	275.0	295.0	314.1	329.4	341.8	350.4
62.5°	149.9	165.2	190.0	213.9	237.7	260.7	280.7	299.8	314.1	325.6	333.2
65°	135.6	151.8	175.7	199.5	223.4	246.3	266.4	284.5	298.8	309.3	316.0
67.5°	122.2	138.4	162.3	185.2	209.1	231.1	252.1	269.2	281.7	292.2	296.9
70°	108.8	125.1	148.0	170.9	193.8	215.8	235.8	253.0	265.4	274.0	278.8
72.5°	95.5	111.7	133.7	155.6	178.5	199.5	219.6	235.8	247.3	254.9	258.7
75°	83.1	98.3	119.3	140.4	161.4	182.4	201.5	216.7	227.2	233.9	237.7
77.5°	70.7	85.9	105.0	124.1	144.2	164.2	182.4	195.7	206.2	211.0	214.8
80°	58.2	71.6	88.8	106.0	125.1	142.3	159.4	170.9	179.5	182.4	183.3
82.5°	45.8	56.3	70.7	85.0	101.2	116.5	130.8	139.4	147.0	148.0	148.9
85°	31.5	38.2	48.7	59.2	71.6	84.0	95.5	102.2	107.9	107.9	108.8
87.5°	16.2	18.1	22.9	29.6	37.2	43.9	52.5	55.4	59.2	60.2	60.2
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°	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0
2.5°	424.9	424.9	424.9	425.8	425.8	425.8	425.8	425.8
5°	448.7	451.6	455.4	457.3	459.2	461.2	462.1	462.1
7.5°	477.4	482.2	487.9	491.7	494.6	497.4	499.3	499.3
10°	505.1	512.7	517.5	524.2	528.0	529.9	532.8	532.8
12.5°	528.9	537.5	545.2	552.8	556.6	559.5	563.3	563.3
15°	549.0	560.5	569.0	577.6	582.4	586.2	589.1	590.0
17.5°	565.2	576.7	586.2	595.8	601.5	606.3	609.1	610.1
20°	574.8	588.1	598.6	608.2	614.9	620.6	623.5	624.4
22.5°	581.5	594.8	606.3	616.8	624.4	630.1	633.0	634.0
25°	582.4	596.7	609.1	619.6	628.2	634.0	636.8	637.8
27.5°	579.5	594.8	607.2	618.7	627.3	633.0	636.8	637.8
30°	572.9	588.1	601.5	613.0	620.6	627.3	630.1	631.1
32.5°	561.4	576.7	590.0	600.6	609.1	615.8	618.7	619.6
35°	548.0	562.4	574.8	586.2	593.9	600.6	604.4	604.4
37.5°	529.9	544.2	556.6	567.1	574.8	581.5	584.3	585.3
40°	510.8	524.2	535.6	546.1	553.8	559.5	562.4	562.4
42.5°	490.8	504.1	514.6	523.2	529.9	535.6	537.5	538.5
45°	469.7	481.2	490.8	498.4	504.1	508.9	510.8	511.8
47.5°	449.7	460.2	468.8	475.5	480.3	483.1	484.1	485.0
50°	429.6	439.2	445.9	451.6	454.5	457.3	458.3	458.3
52.5°	410.6	419.1	423.9	427.7	430.6	433.5	433.5	433.5
55°	392.4	399.1	402.9	405.8	407.7	409.6	410.6	410.6
57.5°	374.3	379.0	381.9	384.8	385.7	386.7	386.7	387.6
60°	356.1	359.9	361.9	363.8	363.8	364.7	365.7	365.7
62.5°	338.0	339.9	341.8	342.8	342.8	344.7	344.7	344.7
65°	318.9	320.8	321.8	321.8	322.7	324.6	324.6	326.5
67.5°	299.8	300.8	300.8	301.7	302.7	304.6	304.6	306.5
70°	280.7	281.7	280.7	282.6	282.6	284.5	285.5	287.4
72.5°	260.7	260.7	260.7	261.6	262.6	264.5	265.4	266.4
75°	237.7	238.7	238.7	238.7	237.7	238.7	238.7	240.6
77.5°	212.0	210.0	208.1	208.1	206.2	207.2	207.2	209.1
80°	180.5	178.5	176.6	176.6	174.7	176.6	177.6	177.6
82.5°	146.1	145.1	143.2	143.2	142.3	142.3	142.3	143.2
85°	106.9	106.0	104.1	104.1	103.1	103.1	104.1	104.1
87.5°	59.2	58.2	57.3	57.3	55.4	56.3	58.2	57.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)