

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: P188370

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188370  
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-L840-CD1-SO-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STORARO ORANGE SKYTRIM.  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

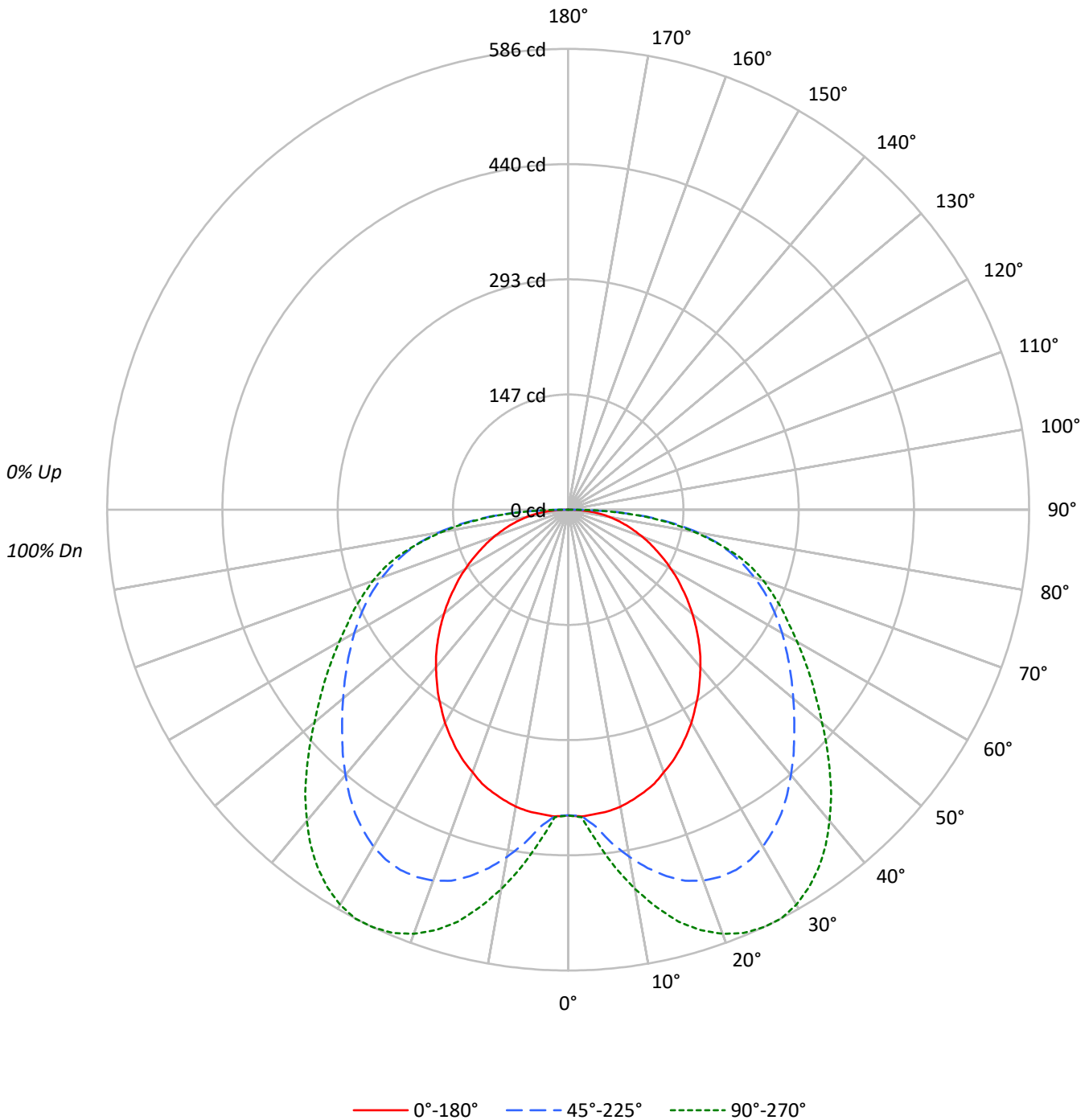
Lumens per Lamp: N/A  
Luminaire Lumens: 1790.0 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.85 / 1.71  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	1139	1139	1139
5°	1143	1190	1249
10°	1141	1334	1457
15°	1128	1464	1645
20°	1108	1565	1789
25°	1086	1634	1895
30°	1060	1674	1962
35°	1029	1688	1987
40°	1000	1684	1976
45°	970	1683	1948
50°	940	1703	1920
55°	910	1752	1927
60°	884	1841	1969
65°	864	1971	2080
70°	857	2157	2263
75°	864	2433	2503
80°	903	2828	2754
85°	975	3332	3214



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.9	2.2
10°-20°	133.1	7.4
20°-30°	223.8	12.5
30°-40°	282.0	15.8
40°-50°	297.4	16.6
50°-60°	283.3	15.8
60°-70°	250.7	14.0
70°-80°	194.8	10.9
80°-90°	85.2	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°	396.7	22.2
0°-40°	678.7	37.9
0°-60°	1259.4	70.4
0°-90°	1790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1790.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	389	389	389	389	389	
5°	389	390	404	419	425	37
15°	372	416	482	527	542	105
25°	336	414	505	565	586	155
35°	288	379	472	533	555	180
45°	234	323	406	454	470	181
55°	178	268	343	372	377	160
65°	125	216	284	296	300	124
75°	76	158	215	219	221	81
85°	29	72	99	96	96	31
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°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7
2.5°	390.4	390.4	389.5	389.5	389.5	389.5	388.7	388.7	389.5	389.5	389.5
5°	388.7	388.7	388.7	388.7	388.7	390.4	392.2	396.6	400.1	404.5	408.8
7.5°	386.9	386.0	386.0	387.8	391.3	397.4	404.5	413.2	421.1	428.1	434.3
10°	383.4	383.4	383.4	388.7	397.4	408.8	419.4	429.0	438.7	448.3	458.0
12.5°	378.1	378.1	379.9	390.4	403.6	417.6	429.9	443.1	456.2	466.7	478.1
15°	372.0	372.0	376.4	391.3	408.0	423.8	439.5	454.5	469.4	482.5	494.8
17.5°	365.0	364.1	372.9	391.3	409.7	428.1	445.7	463.2	479.9	494.8	508.0
20°	355.3	356.2	368.5	389.5	409.7	430.8	449.2	467.6	486.0	501.8	515.9
22.5°	346.5	348.3	363.2	386.0	408.0	429.9	450.1	469.4	488.7	505.3	520.3
25°	336.0	337.8	355.3	379.9	402.7	425.5	446.6	467.6	486.9	505.3	521.1
27.5°	324.6	327.2	347.4	372.0	396.6	419.4	441.3	462.4	483.4	501.8	517.6
30°	313.2	316.7	338.7	364.1	387.8	411.5	434.3	455.3	476.4	494.8	511.5
32.5°	300.0	304.4	328.1	353.6	378.1	400.9	423.8	445.7	465.9	484.3	501.0
35°	287.8	293.0	316.7	342.2	366.7	390.4	412.3	434.3	453.6	472.0	488.7
37.5°	274.6	279.9	304.4	329.9	353.6	377.3	399.2	420.2	439.5	457.1	472.9
40°	261.4	267.6	291.3	316.7	339.5	363.2	384.3	405.3	423.8	440.4	456.2
42.5°	248.3	255.3	279.0	303.6	326.4	349.2	370.2	390.4	408.0	423.8	437.8
45°	234.2	242.1	265.0	289.5	312.3	334.3	355.3	374.6	391.3	406.2	420.2
47.5°	220.2	229.0	251.8	276.4	298.3	320.2	339.5	358.8	374.6	389.5	401.8
50°	206.2	215.8	238.6	262.3	284.3	306.2	325.5	343.9	358.8	373.7	385.1
52.5°	192.1	203.5	226.4	249.2	271.1	292.2	311.5	329.0	343.9	358.0	368.5
55°	178.1	190.4	213.2	236.0	257.9	279.0	297.4	315.8	329.9	343.0	352.7
57.5°	164.9	177.2	200.0	222.8	244.8	265.8	284.3	301.8	315.8	328.1	337.8
60°	150.9	164.9	186.9	209.7	231.6	252.7	271.1	288.6	302.7	314.1	322.0
62.5°	137.7	151.8	174.6	196.5	218.5	239.5	257.9	275.5	288.6	299.2	306.2
65°	124.6	139.5	161.4	183.4	205.3	226.4	244.8	261.4	274.6	284.3	290.4
67.5°	112.3	127.2	149.1	170.2	192.1	212.3	231.6	247.4	258.8	268.5	272.9
70°	100.0	114.9	136.0	157.0	178.1	198.3	216.7	232.5	243.9	251.8	256.2
72.5°	87.7	102.6	122.8	143.0	164.1	183.4	201.8	216.7	227.2	234.2	237.8
75°	76.3	90.4	109.7	129.0	148.3	167.6	185.1	199.2	208.8	214.9	218.5
77.5°	64.9	79.0	96.5	114.1	132.5	150.9	167.6	179.9	189.5	193.9	197.4
80°	53.5	65.8	81.6	97.4	114.9	130.7	146.5	157.0	164.9	167.6	168.4
82.5°	42.1	51.8	64.9	78.1	93.0	107.0	120.2	128.1	135.1	136.0	136.9
85°	29.0	35.1	44.7	54.4	65.8	77.2	87.7	93.9	99.1	99.1	100.0
87.5°	14.9	16.7	21.1	27.2	34.2	40.4	48.3	50.9	54.4	55.3	55.3
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°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7
2.5°	390.4	390.4	390.4	391.3	391.3	391.3	391.3	391.3
5°	412.3	415.0	418.5	420.2	422.0	423.8	424.6	424.6
7.5°	438.7	443.1	448.3	451.8	454.5	457.1	458.8	458.8
10°	464.1	471.1	475.5	481.7	485.2	486.9	489.6	489.6
12.5°	486.0	493.9	501.0	508.0	511.5	514.1	517.6	517.6
15°	504.5	515.0	522.9	530.8	535.2	538.7	541.3	542.2
17.5°	519.4	529.9	538.7	547.5	552.7	557.1	559.7	560.6
20°	528.2	540.4	550.1	558.9	565.0	570.3	572.9	573.8
22.5°	534.3	546.6	557.1	566.8	573.8	579.0	581.7	582.5
25°	535.2	548.3	559.7	569.4	577.3	582.5	585.2	586.1
27.5°	532.5	546.6	558.0	568.5	576.4	581.7	585.2	586.1
30°	526.4	540.4	552.7	563.2	570.3	576.4	579.0	579.9
32.5°	515.9	529.9	542.2	551.8	559.7	565.9	568.5	569.4
35°	503.6	516.7	528.2	538.7	545.7	551.8	555.4	555.4
37.5°	486.9	500.1	511.5	521.1	528.2	534.3	536.9	537.8
40°	469.4	481.7	492.2	501.8	508.9	514.1	516.7	516.7
42.5°	450.9	463.2	472.9	480.8	486.9	492.2	493.9	494.8
45°	431.6	442.2	450.9	458.0	463.2	467.6	469.4	470.2
47.5°	413.2	422.9	430.8	436.9	441.3	443.9	444.8	445.7
50°	394.8	403.6	409.7	415.0	417.6	420.2	421.1	421.1
52.5°	377.3	385.1	389.5	393.0	395.7	398.3	398.3	398.3
55°	360.6	366.7	370.2	372.9	374.6	376.4	377.3	377.3
57.5°	343.9	348.3	350.9	353.6	354.4	355.3	355.3	356.2
60°	327.2	330.8	332.5	334.3	334.3	335.1	336.0	336.0
62.5°	310.6	312.3	314.1	315.0	315.0	316.7	316.7	316.7
65°	293.0	294.8	295.7	295.7	296.5	298.3	298.3	300.0
67.5°	275.5	276.4	276.4	277.2	278.1	279.9	279.9	281.6
70°	257.9	258.8	257.9	259.7	259.7	261.4	262.3	264.1
72.5°	239.5	239.5	239.5	240.4	241.3	243.0	243.9	244.8
75°	218.5	219.3	219.3	219.3	218.5	219.3	219.3	221.1
77.5°	194.8	193.0	191.3	191.3	189.5	190.4	190.4	192.1
80°	165.8	164.1	162.3	162.3	160.6	162.3	163.2	163.2
82.5°	134.2	133.4	131.6	131.6	130.7	130.7	130.7	131.6
85°	98.3	97.4	95.6	95.6	94.8	94.8	95.6	95.6
87.5°	54.4	53.5	52.6	52.6	50.9	51.8	53.5	52.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)