

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: P188292

Luminaire Tested: **22SR-LD2-29-C-UNV-L850-CD1-MR-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188292  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24792)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22SR-LD2-29-C-UNV-L850-CD1-MR-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH MEDIUM RED SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

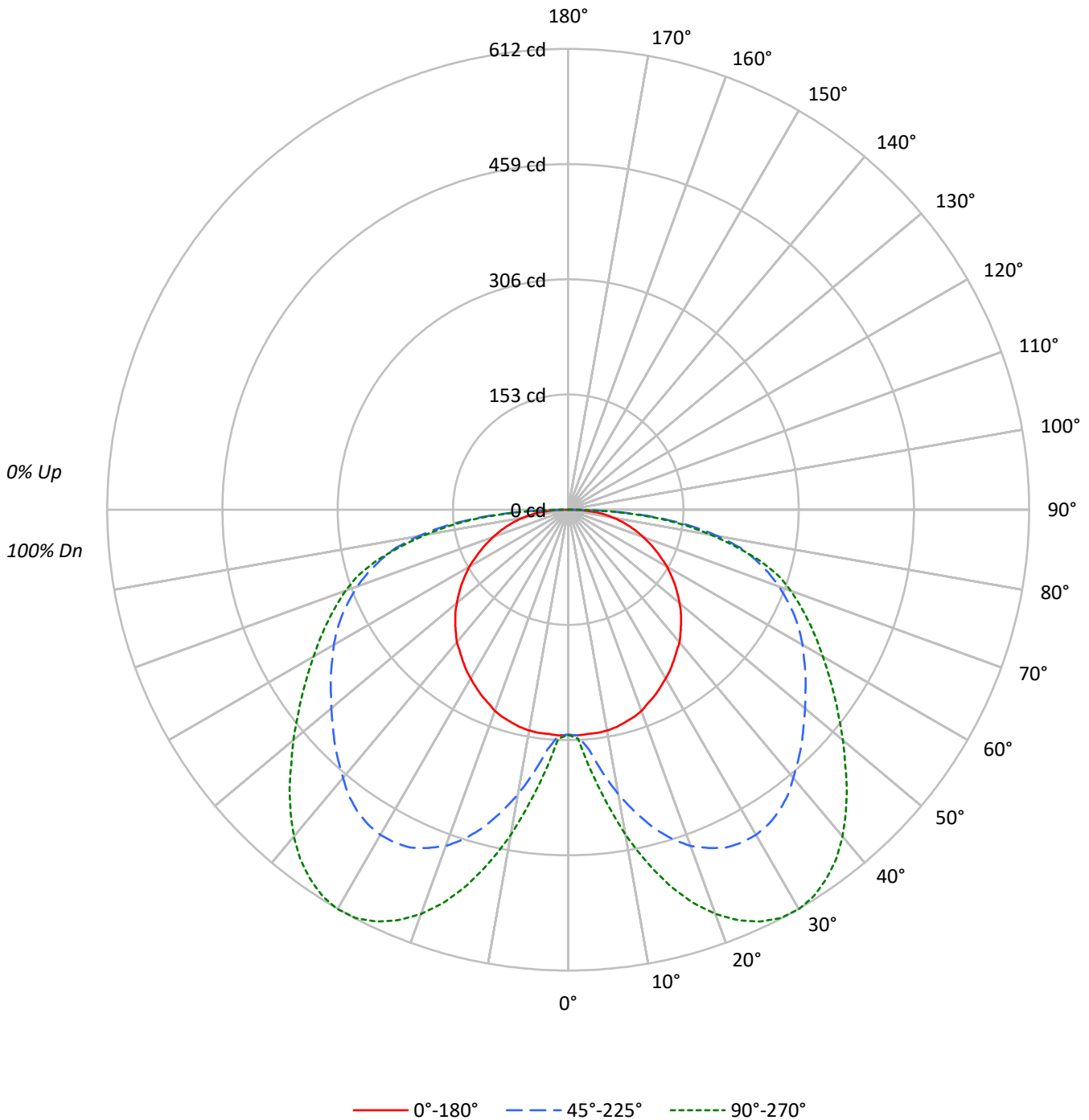
Lumens per Lamp: N/A  
Luminaire Lumens: 1907.0 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 2.21 / 2.01  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): 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	106	100	95	90	103	98	93	89	93	89	86	89	86	83	86	83	80	78
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	65	62
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	53	50
4	78	64	54	47	75	63	53	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	55	46	39	53	45	39	51	44	38	49	43	38	35
6	65	50	41	34	63	49	40	33	48	39	33	46	38	33	44	38	32	30
7	60	45	36	29	58	45	36	29	43	35	29	41	34	29	40	33	28	26
8	56	41	32	26	54	40	32	26	39	31	25	38	30	25	36	30	25	23
9	52	38	29	23	50	37	28	23	36	28	23	35	27	22	33	27	22	20
10	49	34	26	20	47	34	26	20	33	25	20	32	25	20	31	25	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	876	876	876
5°	879	941	1024
10°	886	1142	1304
15°	886	1326	1563
20°	887	1482	1781
25°	880	1601	1951
30°	876	1687	2072
35°	874	1747	2139
40°	879	1779	2167
45°	878	1817	2168
50°	880	1871	2171
55°	883	1966	2205
60°	889	2105	2288
65°	890	2297	2444
70°	908	2551	2694
75°	948	2917	2992
80°	1016	3407	3257
85°	1163	3937	3712



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.4	1.7
10°-20°	119.7	6.3
20°-30°	216.8	11.4
30°-40°	288.0	15.1
40°-50°	316.6	16.6
50°-60°	314.0	16.5
60°-70°	289.1	15.2
70°-80°	230.8	12.1
80°-90°	99.6	5.2
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°	368.9	19.3
0°-40°	656.9	34.4
0°-60°	1287.5	67.5
0°-90°	1907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1907.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	299	299	299	299	299	
5°	299	301	320	341	348	29
15°	292	350	437	495	515	83
25°	272	375	495	574	603	125
35°	244	364	488	570	598	153
45°	212	328	438	502	523	164
55°	173	288	385	423	432	154
65°	128	243	331	347	352	127
75°	84	185	258	263	264	88
85°	35	85	117	110	110	36
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°	298.9	298.9	298.9	298.9	298.9	298.9	298.9	298.9	298.9	298.9	298.9
2.5°	300.0	300.0	300.0	300.0	298.9	298.9	298.9	298.9	298.9	300.0	301.2
5°	298.9	298.9	298.9	300.0	300.0	302.3	305.6	310.1	314.5	320.1	326.8
7.5°	298.9	298.9	298.9	300.0	305.6	314.5	324.6	334.6	343.5	352.5	362.5
10°	297.8	297.8	297.8	304.5	316.8	331.3	345.8	359.2	371.4	383.7	396.0
12.5°	295.6	295.6	298.9	311.2	329.0	348.0	363.6	381.5	397.1	411.6	426.1
15°	292.2	292.2	298.9	317.9	340.2	360.3	381.5	401.5	420.5	437.2	454.0
17.5°	288.9	288.9	300.0	323.5	348.0	372.5	396.0	418.3	439.5	458.4	476.3
20°	284.4	284.4	300.0	327.9	354.7	381.5	407.1	430.5	454.0	475.2	494.1
22.5°	277.7	280.0	300.0	330.2	359.2	387.0	413.8	440.6	465.1	486.3	507.5
25°	272.2	275.5	298.9	330.2	360.3	390.4	419.4	446.2	471.8	495.2	516.4
27.5°	265.5	269.9	296.7	329.0	360.3	390.4	420.5	448.4	475.2	498.6	520.9
30°	258.8	264.3	293.3	325.7	358.0	389.3	418.3	447.3	474.0	498.6	520.9
32.5°	252.1	258.8	287.8	321.2	353.6	384.8	414.9	443.9	470.7	495.2	517.5
35°	244.3	252.1	282.2	315.7	348.0	379.2	408.2	437.2	464.0	488.5	509.7
37.5°	236.5	245.4	275.5	309.0	340.2	371.4	400.4	428.3	455.1	478.5	499.7
40°	229.8	237.6	267.7	301.2	332.4	362.5	391.5	418.3	443.9	465.1	486.3
42.5°	220.8	230.9	259.9	293.3	323.5	352.5	381.5	407.1	431.7	451.7	471.8
45°	211.9	223.1	252.1	283.3	314.5	342.4	370.3	396.0	418.3	438.4	456.2
47.5°	203.0	214.2	243.2	274.4	304.5	332.4	359.2	383.7	404.9	423.9	441.7
50°	193.0	206.3	234.2	264.3	294.5	322.4	348.0	371.4	392.6	410.5	427.2
52.5°	182.9	197.4	225.3	255.4	283.3	311.2	336.9	359.2	379.2	397.1	411.6
55°	172.9	187.4	216.4	245.4	273.3	302.3	326.8	349.1	369.2	384.8	398.2
57.5°	161.7	178.5	206.3	235.3	263.2	290.0	315.7	338.0	355.8	371.4	383.7
60°	151.7	168.4	196.3	224.2	253.2	280.0	304.5	325.7	343.5	359.2	370.3
62.5°	139.4	158.4	185.2	214.2	242.0	267.7	293.3	314.5	332.4	345.8	354.7
65°	128.3	147.2	174.0	201.9	229.8	256.5	281.1	302.3	317.9	331.3	339.1
67.5°	117.1	136.1	162.8	190.7	217.5	243.2	267.7	287.8	303.4	314.5	321.2
70°	106.0	124.9	150.6	177.3	204.1	229.8	253.2	272.2	286.7	297.8	303.4
72.5°	94.8	113.8	138.3	164.0	189.6	214.2	237.6	255.4	268.8	278.8	284.4
75°	83.7	101.5	124.9	149.5	172.9	197.4	219.7	236.5	249.8	257.7	262.1
77.5°	72.5	89.2	110.4	132.7	156.2	178.5	198.5	215.3	226.4	234.2	236.5
80°	60.2	75.8	93.7	114.9	135.0	156.2	174.0	188.5	198.5	201.9	201.9
82.5°	49.1	60.2	74.7	92.6	109.3	127.2	142.8	155.0	160.6	164.0	162.8
85°	34.6	41.3	51.3	64.7	77.0	92.6	103.7	111.5	116.0	117.1	116.0
87.5°	17.8	19.0	24.5	31.2	37.9	48.0	52.4	59.1	61.3	61.3	61.3
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°	298.9	298.9	298.9	298.9	298.9	298.9	298.9	298.9
2.5°	301.2	301.2	303.4	303.4	304.5	303.4	304.5	304.5
5°	331.3	335.7	340.2	342.4	345.8	346.9	348.0	348.0
7.5°	368.1	374.8	380.4	383.7	389.3	391.5	392.6	392.6
10°	403.8	412.7	420.5	426.1	431.7	435.0	437.2	438.4
12.5°	437.2	448.4	457.3	465.1	470.7	475.2	477.4	478.5
15°	466.2	479.6	490.8	498.6	506.4	510.9	514.2	515.3
17.5°	491.9	505.3	517.5	527.6	535.4	541.0	544.3	546.5
20°	510.9	526.5	539.9	549.9	559.9	565.5	568.9	571.1
22.5°	525.4	542.1	556.6	567.7	577.8	584.5	587.8	590.0
25°	535.4	553.2	568.9	580.0	591.2	597.9	602.3	603.4
27.5°	541.0	559.9	575.5	587.8	599.0	605.7	610.1	611.2
30°	542.1	559.9	576.7	588.9	600.1	606.8	611.2	612.4
32.5°	538.7	556.6	572.2	585.6	595.6	602.3	606.8	607.9
35°	530.9	548.8	563.3	576.7	586.7	593.4	597.9	597.9
37.5°	518.7	536.5	551.0	563.3	573.3	578.9	583.4	584.5
40°	505.3	520.9	535.4	546.5	555.5	561.0	565.5	566.6
42.5°	489.7	504.2	516.4	526.5	535.4	542.1	544.3	545.4
45°	472.9	486.3	497.5	506.4	514.2	517.5	522.0	523.1
47.5°	456.2	468.5	477.4	485.2	491.9	496.4	498.6	498.6
50°	439.5	449.5	458.4	465.1	469.6	471.8	474.0	476.3
52.5°	423.9	431.7	439.5	443.9	447.3	450.6	451.7	452.9
55°	408.2	416.0	421.6	425.0	427.2	430.5	430.5	431.7
57.5°	392.6	398.2	402.7	404.9	407.1	408.2	409.4	410.5
60°	377.0	381.5	383.7	385.9	387.0	389.3	389.3	390.4
62.5°	361.4	363.6	365.9	367.0	368.1	370.3	371.4	371.4
65°	343.5	345.8	346.9	348.0	349.1	351.4	352.5	352.5
67.5°	325.7	326.8	326.8	329.0	330.2	332.4	332.4	333.5
70°	306.7	306.7	307.9	309.0	310.1	311.2	313.4	314.5
72.5°	286.7	285.5	286.7	287.8	290.0	291.1	292.2	293.3
75°	262.1	262.1	263.2	262.1	262.1	263.2	263.2	264.3
77.5°	235.3	232.0	228.7	228.7	228.7	227.5	227.5	228.7
80°	199.7	195.2	193.0	193.0	191.8	191.8	193.0	193.0
82.5°	159.5	158.4	153.9	153.9	155.0	152.8	153.9	155.0
85°	113.8	112.7	110.4	110.4	110.4	108.2	109.3	110.4
87.5°	60.2	59.1	56.9	58.0	58.0	55.8	58.0	56.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)