

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: P188317

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24793)
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-PG-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1925.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 2.19 / 2
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

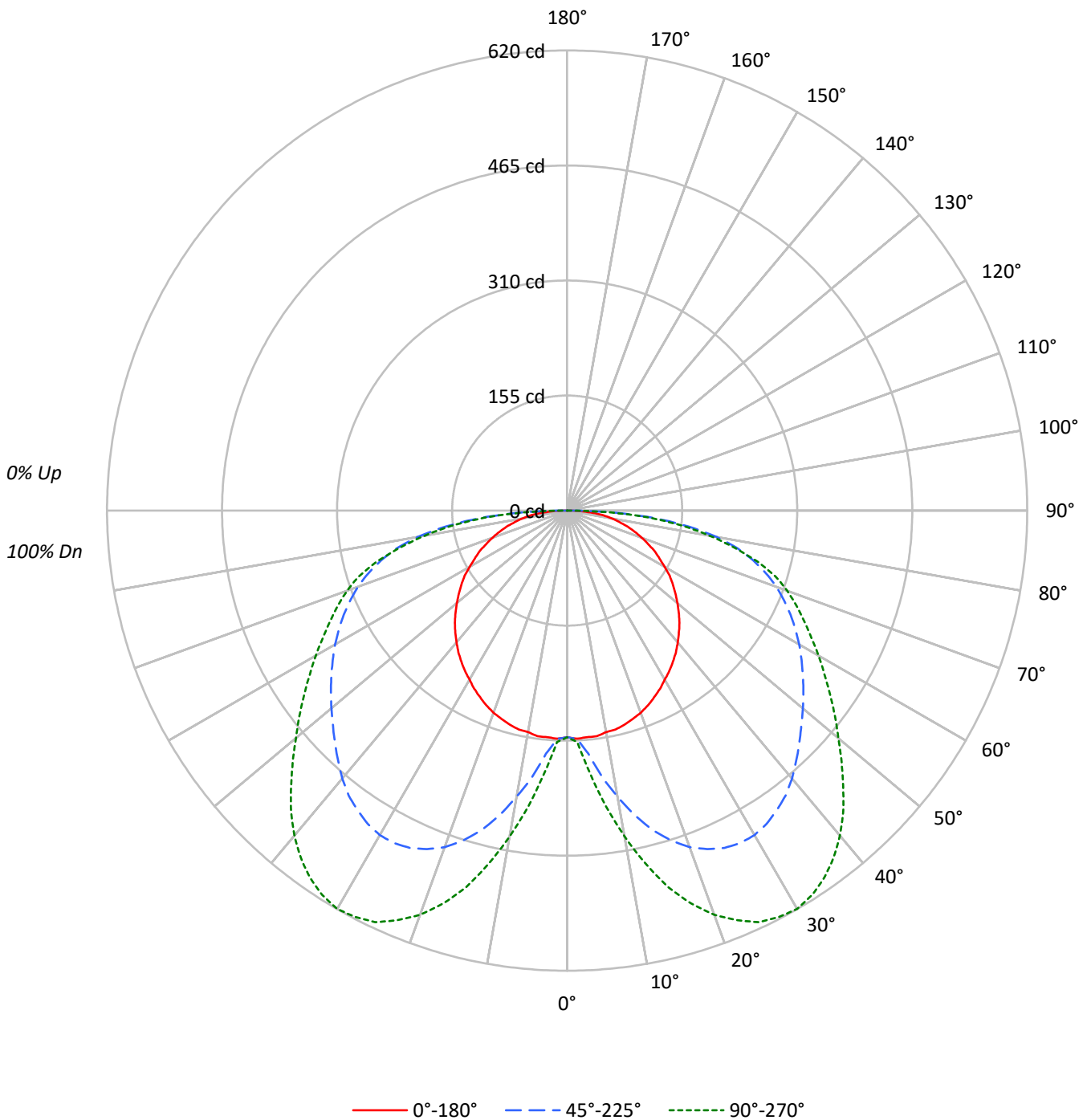
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	80	73	68	76	71	66	73	69	65	62
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	53	51
4	78	64	54	47	75	63	54	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	56	46	39	53	45	39	51	44	38	49	43	38	35
6	65	51	41	34	63	50	40	34	48	39	33	46	39	33	44	38	33	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	31	25	37	30	25	23
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	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°	895	895	895
5°	901	967	1046
10°	902	1164	1326
15°	906	1352	1592
20°	904	1505	1807
25°	897	1621	1978
30°	890	1708	2097
35°	889	1762	2161
40°	887	1803	2187
45°	887	1834	2180
50°	884	1890	2174
55°	888	1981	2209
60°	888	2116	2292
65°	904	2302	2442
70°	917	2568	2702
75°	959	2940	3003
80°	1034	3442	3290
85°	1160	4011	3785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	1.7
10°-20°	121.8	6.3
20°-30°	219.8	11.4
30°-40°	291.2	15.1
40°-50°	319.6	16.6
50°-60°	316.0	16.4
60°-70°	290.2	15.1
70°-80°	232.1	12.1
80°-90°	101.1	5.3
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°	374.8	19.5
0°-40°	666.0	34.6
0°-60°	1301.5	67.6
0°-90°	1925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	306	309	329	349	356	29
15°	299	357	446	502	525	84
25°	278	382	502	582	612	128
35°	248	368	493	575	604	156
45°	214	332	442	507	526	165
55°	174	290	388	425	432	155
65°	130	245	332	348	352	128
75°	85	186	260	264	265	89
85°	34	85	119	113	113	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°	305.4	305.4	305.4	305.4	305.4	305.4	305.4	305.4	305.4	305.4	305.4
2.5°	307.6	307.6	306.5	307.6	306.5	307.6	306.5	306.5	307.6	307.6	308.7
5°	306.5	306.5	306.5	306.5	307.6	309.8	313.2	317.6	323.2	328.8	334.3
7.5°	306.5	306.5	306.5	307.6	313.2	322.1	332.1	342.2	353.3	362.2	370.0
10°	303.1	304.3	304.3	310.9	323.2	337.7	353.3	365.6	378.9	391.2	402.3
12.5°	302.0	303.1	305.4	317.6	335.5	355.5	372.2	389.0	405.7	420.2	433.5
15°	298.7	298.7	306.5	324.3	346.6	367.8	389.0	409.0	428.0	445.8	461.4
17.5°	294.2	294.2	306.5	329.9	354.4	378.9	402.3	424.6	446.9	465.9	483.7
20°	289.8	290.9	306.5	334.3	361.1	389.0	413.5	438.0	461.4	482.6	502.6
22.5°	284.2	285.3	306.5	336.6	365.6	394.5	421.3	446.9	471.4	493.7	514.9
25°	277.5	280.9	304.3	335.5	366.7	396.8	424.6	452.5	479.2	501.5	523.8
27.5°	270.8	275.3	300.9	333.2	365.6	396.8	425.7	454.7	480.3	504.9	527.2
30°	263.0	268.6	297.6	331.0	363.3	394.5	424.6	453.6	480.3	504.9	527.2
32.5°	256.3	263.0	293.1	326.5	358.9	390.1	420.2	449.1	475.9	500.4	522.7
35°	248.5	255.2	286.4	319.9	352.2	383.4	413.5	441.3	469.2	492.6	514.9
37.5°	240.7	248.5	279.7	313.2	345.5	376.7	405.7	433.5	459.2	483.7	504.9
40°	231.8	240.7	271.9	305.4	336.6	366.7	395.6	422.4	448.0	471.4	491.5
42.5°	222.9	232.9	263.0	296.5	327.7	357.8	385.6	411.2	435.8	456.9	475.9
45°	214.0	225.1	255.2	286.4	317.6	346.6	373.4	399.0	421.3	442.5	460.3
47.5°	204.0	216.2	246.3	277.5	307.6	335.5	362.2	386.7	409.0	428.0	444.7
50°	193.9	207.3	237.4	267.5	296.5	325.4	351.1	374.5	395.6	414.6	430.2
52.5°	183.9	198.4	227.4	257.4	286.4	314.3	339.9	362.2	383.4	401.2	414.6
55°	173.9	188.4	218.4	247.4	276.4	303.1	328.8	351.1	371.1	387.8	400.1
57.5°	163.8	179.4	208.4	236.3	265.3	293.1	317.6	339.9	358.9	374.5	386.7
60°	151.6	169.4	197.3	226.2	254.1	282.0	306.5	327.7	346.6	361.1	372.2
62.5°	140.4	159.4	187.2	215.1	243.0	269.7	294.2	315.4	333.2	346.6	356.6
65°	130.4	148.2	176.1	202.8	230.7	258.6	282.0	303.1	319.9	332.1	341.0
67.5°	118.1	137.1	163.8	190.6	218.4	245.2	268.6	288.7	305.4	316.5	324.3
70°	107.0	125.9	151.6	178.3	205.1	230.7	254.1	274.2	288.7	299.8	305.4
72.5°	95.8	114.8	139.3	164.9	190.6	216.2	238.5	256.3	270.8	280.9	285.3
75°	84.7	102.5	125.9	150.5	173.9	198.4	220.7	238.5	250.8	259.7	263.0
77.5°	72.4	90.3	111.4	133.7	156.0	179.4	199.5	216.2	228.5	235.2	238.5
80°	61.3	75.8	94.7	115.9	136.0	157.1	175.0	189.5	199.5	204.0	202.8
82.5°	49.0	60.2	75.8	93.6	110.3	128.2	143.8	156.0	162.7	164.9	164.9
85°	34.5	41.2	52.4	64.6	78.0	91.4	103.6	112.6	118.1	119.3	119.3
87.5°	17.8	20.1	24.5	31.2	37.9	45.7	54.6	60.2	62.4	63.5	63.5
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°	305.4	305.4	305.4	305.4	305.4	305.4	305.4	305.4
2.5°	308.7	309.8	310.9	310.9	310.9	312.1	312.1	312.1
5°	338.8	344.4	347.7	350.0	352.2	354.4	356.6	355.5
7.5°	376.7	383.4	389.0	393.4	396.8	400.1	402.3	402.3
10°	411.2	420.2	428.0	434.7	440.2	442.5	445.8	445.8
12.5°	445.8	455.8	464.7	473.7	479.2	483.7	487.0	487.0
15°	474.8	487.0	497.1	507.1	514.9	520.5	522.7	524.9
17.5°	499.3	512.7	524.9	536.1	543.9	549.4	552.8	555.0
20°	518.2	533.8	547.2	558.4	568.4	574.0	577.3	579.5
22.5°	532.7	549.4	563.9	576.2	585.1	591.8	596.3	597.4
25°	542.8	560.6	576.2	588.5	598.5	605.2	609.6	611.9
27.5°	547.2	565.1	581.8	595.1	605.2	613.0	616.3	617.4
30°	548.3	566.2	582.9	596.3	607.4	614.1	617.4	619.7
32.5°	543.9	561.7	578.4	591.8	601.8	608.5	613.0	614.1
35°	535.0	552.8	568.4	581.8	591.8	598.5	602.9	604.1
37.5°	523.8	540.5	556.1	568.4	578.4	585.1	588.5	589.6
40°	509.3	526.0	539.4	551.7	560.6	566.2	570.6	571.7
42.5°	493.7	509.3	522.7	532.7	540.5	547.2	549.4	550.6
45°	475.9	490.4	502.6	511.6	518.2	523.8	526.0	526.0
47.5°	459.2	472.5	482.6	490.4	494.8	499.3	500.4	501.5
50°	442.5	453.6	462.5	468.1	472.5	475.9	477.0	477.0
52.5°	426.9	435.8	442.5	448.0	450.3	453.6	454.7	454.7
55°	411.2	417.9	423.5	426.9	429.1	431.3	431.3	432.4
57.5°	395.6	401.2	404.6	406.8	409.0	410.1	411.2	411.2
60°	378.9	383.4	385.6	386.7	387.8	390.1	390.1	391.2
62.5°	362.2	365.6	366.7	367.8	368.9	370.0	371.1	371.1
65°	344.4	346.6	347.7	348.8	350.0	351.1	353.3	352.2
67.5°	326.5	327.7	328.8	329.9	331.0	333.2	334.3	334.3
70°	307.6	307.6	308.7	309.8	310.9	313.2	314.3	315.4
72.5°	287.5	286.4	287.5	288.7	290.9	293.1	294.2	294.2
75°	264.1	264.1	264.1	264.1	264.1	265.3	265.3	265.3
77.5°	237.4	231.8	230.7	229.6	229.6	229.6	229.6	230.7
80°	200.6	196.2	195.0	193.9	195.0	195.0	195.0	195.0
82.5°	162.7	158.3	157.1	156.0	156.0	156.0	156.0	157.1
85°	117.0	114.8	113.7	111.4	112.6	112.6	113.7	112.6
87.5°	63.5	60.2	60.2	59.1	61.3	60.2	60.2	59.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)