

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: P188340

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24639)
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-PL-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2901.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 2 / 1.87
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

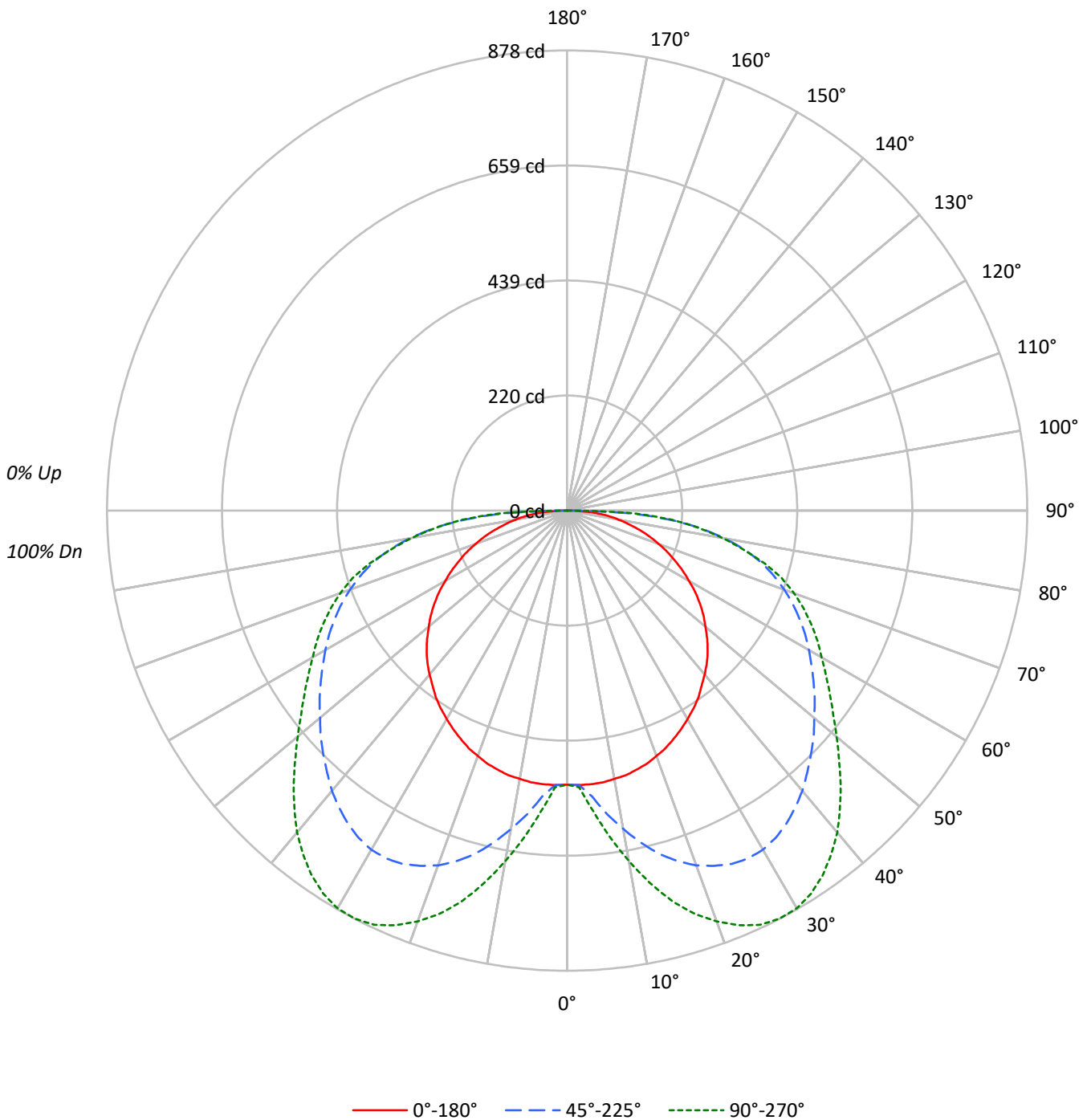
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	106	100	95	90	103	98	93	88	93	89	85	89	86	83	85	83	80
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	64
3	85	73	64	56	83	72	63	56	69	61	55	66	59	54	63	57	53
4	78	64	54	47	75	63	53	46	60	52	46	58	51	45	55	49	44
5	71	57	47	39	69	55	46	39	53	45	39	51	44	38	49	43	38
6	65	51	41	34	63	50	40	34	48	39	33	46	39	33	44	38	33
7	60	46	36	29	58	45	36	29	43	35	29	42	34	29	40	34	28
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	22
10	49	35	26	21	47	34	26	21	33	26	20	32	25	20	31	25	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1532	1532	1532
5°	1542	1610	1696
10°	1546	1835	2020
15°	1553	2056	2337
20°	1554	2246	2601
25°	1554	2404	2819
30°	1554	2528	2965
35°	1560	2608	3039
40°	1561	2670	3066
45°	1571	2726	3058
50°	1570	2806	3060
55°	1578	2933	3127
60°	1575	3123	3286
65°	1577	3394	3564
70°	1595	3773	3945
75°	1615	4343	4419
80°	1694	5136	5081
85°	1876	6559	6710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.9
10°-20°	187.4	6.5
20°-30°	329.1	11.3
30°-40°	433.2	14.9
40°-50°	476.5	16.4
50°-60°	472.1	16.3
60°-70°	434.5	15.0
70°-80°	348.3	12.0
80°-90°	165.7	5.7
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°	570.7	19.7
0°-40°	1003.9	34.6
0°-60°	1952.5	67.3
0°-90°	2901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	524	526	548	570	576	50
15°	512	578	678	745	770	145
25°	481	600	744	838	872	222
35°	436	580	729	820	850	273
45°	379	527	658	721	738	292
55°	309	459	574	608	612	276
65°	228	382	490	506	514	226
75°	143	287	384	389	390	151
85°	56	136	195	196	200	58
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°	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9
2.5°	524.1	525.2	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	525.2
5°	524.1	524.1	524.1	524.1	524.1	527.4	530.7	535.2	541.9	547.5	554.2
7.5°	522.9	522.9	522.9	524.1	530.7	539.7	550.8	562.0	574.2	584.3	593.2
10°	519.6	519.6	520.7	528.5	540.8	557.5	573.1	588.7	602.1	616.6	631.1
12.5°	517.4	517.4	520.7	535.2	554.2	575.3	594.3	613.3	632.2	648.9	665.7
15°	511.8	511.8	519.6	540.8	566.4	589.8	613.3	635.6	657.9	677.9	696.9
17.5°	506.2	506.2	518.5	546.4	574.2	601.0	627.7	654.5	679.0	701.3	722.5
20°	498.4	499.5	517.4	548.6	578.7	609.9	640.0	667.9	695.8	720.3	743.7
22.5°	490.6	491.7	515.1	549.7	582.0	615.5	647.8	679.0	708.0	733.7	759.3
25°	480.6	483.9	510.7	547.5	583.1	617.7	652.3	684.6	715.8	743.7	769.4
27.5°	470.5	475.0	505.1	543.0	580.9	616.6	652.3	686.8	718.1	748.2	773.8
30°	459.4	465.0	498.4	537.4	576.5	613.3	650.0	684.6	716.9	747.1	772.7
32.5°	448.2	453.8	489.5	529.6	568.7	606.6	643.4	679.0	710.3	740.4	767.1
35°	436.0	443.8	480.6	520.7	560.8	598.8	635.6	670.1	701.3	729.2	754.9
37.5°	421.5	431.5	468.3	509.6	549.7	587.6	623.3	657.9	688.0	714.7	739.2
40°	408.1	419.2	457.2	497.3	537.4	575.3	609.9	643.4	672.3	698.0	721.4
42.5°	394.7	407.0	443.8	483.9	522.9	560.8	595.4	626.6	654.5	677.9	700.2
45°	379.1	392.5	429.3	469.4	508.4	545.2	578.7	608.8	636.7	657.9	677.9
47.5°	362.4	378.0	414.8	454.9	492.8	528.5	562.0	589.8	615.5	637.8	655.6
50°	344.5	362.4	399.2	439.3	476.1	511.8	544.1	572.0	595.4	615.5	632.2
52.5°	327.8	345.7	382.4	421.5	459.4	495.1	526.3	553.0	575.3	595.4	609.9
55°	308.9	327.8	365.7	403.6	441.5	476.1	507.3	534.1	555.3	574.2	587.6
57.5°	289.9	310.0	346.8	385.8	422.6	458.3	489.5	515.1	536.3	553.0	565.3
60°	268.7	291.0	327.8	366.8	404.7	439.3	470.5	496.2	516.2	533.0	543.0
62.5°	248.6	270.9	310.0	347.9	384.7	420.4	451.6	476.1	496.2	511.8	520.7
65°	227.5	250.9	288.8	327.8	364.6	400.3	430.4	456.0	475.0	489.5	498.4
67.5°	207.4	230.8	267.6	305.5	342.3	379.1	408.1	432.6	451.6	466.1	473.9
70°	186.2	209.6	246.4	282.1	320.0	354.6	384.7	409.2	427.0	440.4	448.2
72.5°	165.0	189.6	223.0	259.8	295.5	331.2	359.0	383.6	401.4	413.7	420.4
75°	142.7	167.3	200.7	233.0	269.8	304.4	332.3	355.7	372.4	383.6	389.1
77.5°	121.5	143.8	176.2	208.5	240.8	274.3	301.1	324.5	337.8	347.9	353.5
80°	100.4	120.4	149.4	179.5	208.5	239.7	264.3	285.4	298.8	304.4	307.7
82.5°	79.2	97.0	119.3	146.1	171.7	197.4	219.7	237.5	247.5	255.3	257.6
85°	55.8	66.9	84.7	103.7	124.9	146.1	166.1	179.5	189.6	195.1	196.2
87.5°	29.0	33.5	42.4	53.5	69.1	83.6	94.8	103.7	111.5	117.1	122.7
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°	522.9	522.9	522.9	522.9	522.9	522.9	522.9	522.9
2.5°	525.2	525.2	527.4	527.4	528.5	528.5	527.4	528.5
5°	558.6	563.1	569.8	569.8	574.2	576.5	576.5	576.5
7.5°	599.9	606.6	614.4	618.8	624.4	627.7	628.9	628.9
10°	640.0	650.0	659.0	665.7	672.3	675.7	679.0	679.0
12.5°	677.9	690.2	701.3	710.3	718.1	722.5	725.9	727.0
15°	712.5	728.1	739.2	750.4	759.3	764.9	768.2	770.5
17.5°	741.5	758.2	771.6	782.7	792.8	799.5	805.0	806.1
20°	763.8	781.6	797.2	809.5	820.6	827.3	832.9	834.0
22.5°	780.5	800.6	817.3	830.7	841.8	849.6	854.1	856.3
25°	791.7	811.7	830.7	845.2	857.4	865.2	868.6	871.9
27.5°	797.2	818.4	837.4	851.9	864.1	871.9	876.4	877.5
30°	797.2	817.3	836.3	850.7	861.9	869.7	874.2	876.4
32.5°	789.4	809.5	827.3	841.8	851.9	859.7	864.1	866.4
35°	777.2	796.1	814.0	826.2	837.4	842.9	848.5	849.6
37.5°	760.4	778.3	795.0	806.1	816.2	821.8	826.2	827.3
40°	740.4	757.1	771.6	781.6	790.5	796.1	799.5	801.7
42.5°	718.1	732.6	744.8	753.7	760.4	766.0	768.2	770.5
45°	693.5	705.8	716.9	724.8	730.3	733.7	737.0	738.1
47.5°	669.0	680.2	689.1	695.8	698.0	701.3	702.5	703.6
50°	644.5	653.4	661.2	664.5	667.9	670.1	670.1	671.2
52.5°	619.9	628.9	632.2	636.7	638.9	640.0	640.0	640.0
55°	596.5	603.2	606.6	608.8	609.9	612.1	612.1	612.1
57.5°	574.2	578.7	579.8	582.0	583.1	585.4	585.4	585.4
60°	549.7	554.2	555.3	556.4	557.5	559.7	560.8	560.8
62.5°	527.4	530.7	529.6	531.9	533.0	535.2	537.4	538.5
65°	502.9	505.1	505.1	506.2	509.6	510.7	512.9	514.0
67.5°	478.3	479.5	479.5	481.7	483.9	486.1	487.3	488.4
70°	450.5	452.7	451.6	453.8	456.0	458.3	460.5	460.5
72.5°	421.5	422.6	423.7	422.6	424.8	427.0	428.2	429.3
75°	388.0	390.3	390.3	388.0	389.1	389.1	390.3	390.3
77.5°	349.0	347.9	344.5	342.3	342.3	343.4	343.4	344.5
80°	304.4	302.2	299.9	297.7	297.7	298.8	298.8	301.1
82.5°	255.3	253.1	250.9	249.8	250.9	250.9	252.0	253.1
85°	197.4	194.0	197.4	195.1	197.4	197.4	197.4	199.6
87.5°	122.7	123.8	127.1	126.0	124.9	126.0	130.5	128.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)