

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: P188344

Luminaire Tested: **22SR-LD2-29-C-UNV-L840-CD1-PL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188344  
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-L840-CD1-PL-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

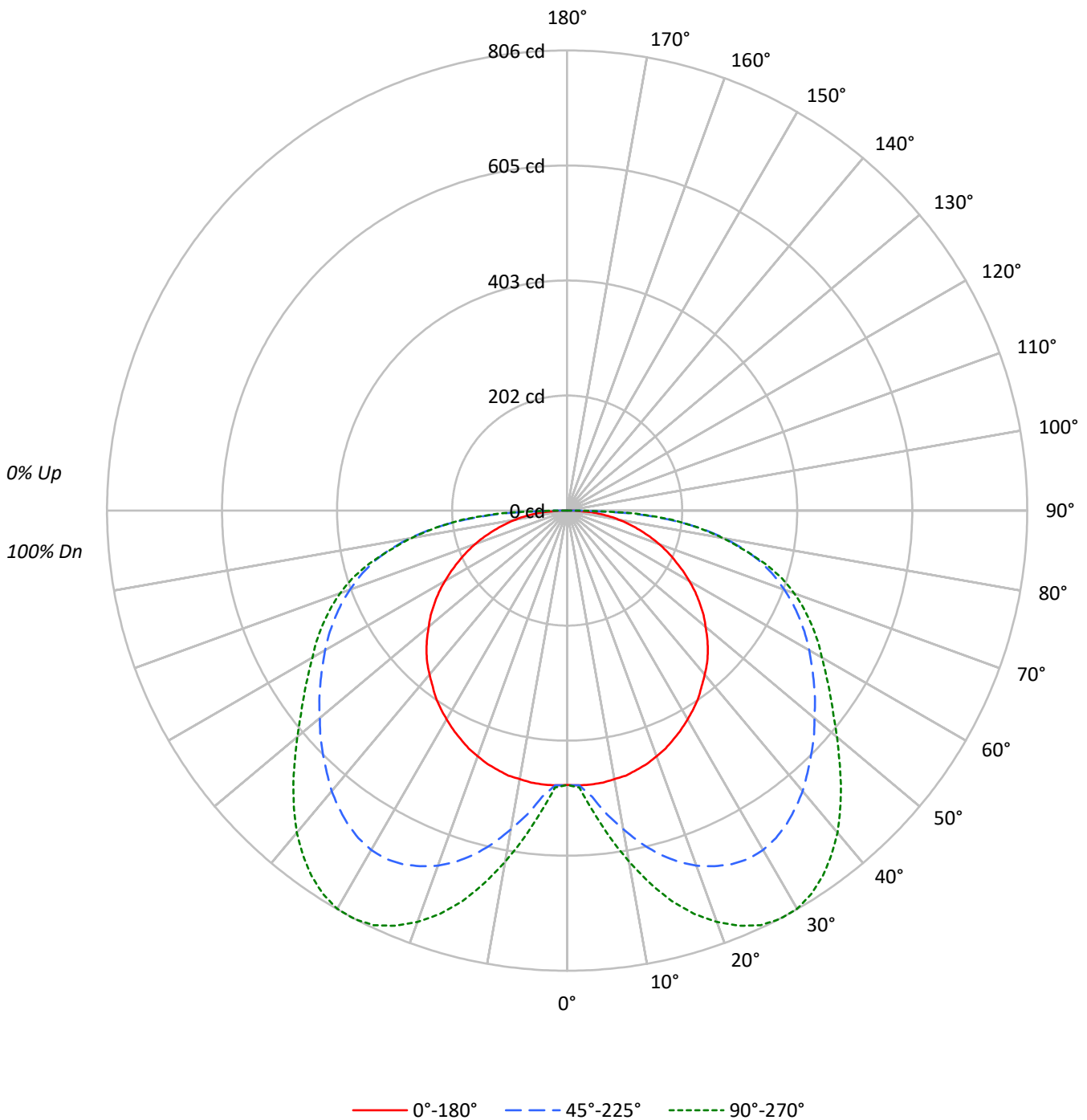
Lumens per Lamp: N/A  
Luminaire Lumens: 2666.0 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 2 / 1.87  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): 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	88	93	89	85	89	86	83	85	83	80	78
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	64	62
3	85	73	64	56	83	72	63	56	69	61	55	66	59	54	63	57	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	51	41	34	63	50	40	34	48	39	33	46	39	33	44	38	33	30
7	60	46	36	29	58	45	36	29	43	35	29	42	34	29	40	34	28	26
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	23
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	22	20
10	49	35	26	21	47	34	26	21	33	26	20	32	25	20	31	25	20	18

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

	0°	45°	90°
0°	1408	1408	1408
5°	1417	1480	1558
10°	1421	1686	1857
15°	1427	1890	2148
20°	1428	2064	2390
25°	1428	2210	2591
30°	1428	2323	2725
35°	1433	2397	2793
40°	1434	2454	2818
45°	1444	2505	2811
50°	1443	2578	2812
55°	1450	2696	2873
60°	1447	2870	3020
65°	1449	3119	3275
70°	1466	3467	3626
75°	1485	3991	4060
80°	1556	4720	4669
85°	1721	6028	6166



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.9	1.9
10°-20°	172.2	6.5
20°-30°	302.4	11.3
30°-40°	398.1	14.9
40°-50°	437.9	16.4
50°-60°	433.9	16.3
60°-70°	399.3	15.0
70°-80°	320.1	12.0
80°-90°	152.3	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°	524.5	19.7
0°-40°	922.6	34.6
0°-60°	1794.3	67.3
0°-90°	2666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2666.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	481	481	481	481	481	
5°	482	483	503	524	530	46
15°	470	531	623	684	708	133
25°	442	552	684	770	801	204
35°	401	533	670	754	781	250
45°	348	484	605	662	678	268
55°	284	422	528	558	562	254
65°	209	352	450	465	472	207
75°	131	264	352	358	359	139
85°	51	124	179	180	183	54
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°	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6
2.5°	481.6	482.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	482.6
5°	481.6	481.6	481.6	481.6	481.6	484.7	487.7	491.8	498.0	503.1	509.3
7.5°	480.6	480.6	480.6	481.6	487.7	495.9	506.2	516.4	527.7	536.9	545.1
10°	477.5	477.5	478.5	485.7	497.0	512.3	526.7	541.0	553.3	566.6	580.0
12.5°	475.5	475.5	478.5	491.8	509.3	528.7	546.2	563.6	581.0	596.4	611.7
15°	470.3	470.3	477.5	497.0	520.5	542.1	563.6	584.1	604.6	623.0	640.4
17.5°	465.2	465.2	476.5	502.1	527.7	552.3	576.9	601.5	624.0	644.5	664.0
20°	458.0	459.1	475.5	504.1	531.8	560.5	588.2	613.8	639.4	661.9	683.5
22.5°	450.9	451.9	473.4	505.2	534.9	565.6	595.3	624.0	650.7	674.2	697.8
25°	441.6	444.7	469.3	503.1	535.9	567.7	599.4	629.2	657.8	683.5	707.0
27.5°	432.4	436.5	464.2	499.0	533.9	566.6	599.4	631.2	659.9	687.6	711.1
30°	422.2	427.3	458.0	493.9	529.8	563.6	597.4	629.2	658.9	686.5	710.1
32.5°	411.9	417.0	449.8	486.7	522.6	557.4	591.2	624.0	652.7	680.4	705.0
35°	400.7	407.8	441.6	478.5	515.4	550.3	584.1	615.8	644.5	670.1	693.7
37.5°	387.3	396.6	430.4	468.3	505.2	540.0	572.8	604.6	632.2	656.8	679.4
40°	375.0	385.3	420.1	457.0	493.9	528.7	560.5	591.2	617.9	641.5	663.0
42.5°	362.7	374.0	407.8	444.7	480.6	515.4	547.2	575.9	601.5	623.0	643.5
45°	348.4	360.7	394.5	431.4	467.3	501.1	531.8	559.5	585.1	604.6	623.0
47.5°	333.0	347.4	381.2	418.1	452.9	485.7	516.4	542.1	565.6	586.1	602.5
50°	316.6	333.0	366.8	403.7	437.5	470.3	500.0	525.7	547.2	565.6	581.0
52.5°	301.3	317.7	351.5	387.3	422.2	455.0	483.6	508.2	528.7	547.2	560.5
55°	283.8	301.3	336.1	370.9	405.8	437.5	466.2	490.8	510.3	527.7	540.0
57.5°	266.4	284.9	318.7	354.5	388.4	421.1	449.8	473.4	492.9	508.2	519.5
60°	246.9	267.4	301.3	337.1	372.0	403.7	432.4	456.0	474.4	489.8	499.0
62.5°	228.5	249.0	284.9	319.7	353.5	386.3	415.0	437.5	456.0	470.3	478.5
65°	209.0	230.6	265.4	301.3	335.1	367.9	395.5	419.1	436.5	449.8	458.0
67.5°	190.6	212.1	245.9	280.8	314.6	348.4	375.0	397.6	415.0	428.3	435.5
70°	171.1	192.6	226.5	259.2	294.1	325.8	353.5	376.1	392.5	404.7	411.9
72.5°	151.7	174.2	204.9	238.8	271.5	304.3	329.9	352.5	368.9	380.2	386.3
75°	131.2	153.7	184.4	214.2	248.0	279.7	305.4	326.9	342.2	352.5	357.6
77.5°	111.7	132.2	161.9	191.6	221.3	252.1	276.7	298.2	310.5	319.7	324.8
80°	92.2	110.7	137.3	165.0	191.6	220.3	242.8	262.3	274.6	279.7	282.8
82.5°	72.8	89.1	109.6	134.2	157.8	181.4	201.9	218.3	227.5	234.7	236.7
85°	51.2	61.5	77.9	95.3	114.8	134.2	152.7	165.0	174.2	179.3	180.3
87.5°	26.6	30.7	38.9	49.2	63.5	76.9	87.1	95.3	102.5	107.6	112.7
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°	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6
2.5°	482.6	482.6	484.7	484.7	485.7	485.7	484.7	485.7
5°	513.4	517.5	523.6	523.6	527.7	529.8	529.8	529.8
7.5°	551.3	557.4	564.6	568.7	573.8	576.9	577.9	577.9
10°	588.2	597.4	605.6	611.7	617.9	621.0	624.0	624.0
12.5°	623.0	634.3	644.5	652.7	659.9	664.0	667.1	668.1
15°	654.8	669.1	679.4	689.6	697.8	702.9	706.0	708.1
17.5°	681.4	696.8	709.1	719.3	728.5	734.7	739.8	740.8
20°	701.9	718.3	732.6	743.9	754.2	760.3	765.4	766.5
22.5°	717.3	735.7	751.1	763.4	773.6	780.8	784.9	787.0
25°	727.5	746.0	763.4	776.7	788.0	795.2	798.2	801.3
27.5°	732.6	752.1	769.5	782.9	794.1	801.3	805.4	806.4
30°	732.6	751.1	768.5	781.8	792.1	799.3	803.4	805.4
32.5°	725.5	743.9	760.3	773.6	782.9	790.0	794.1	796.2
35°	714.2	731.6	748.0	759.3	769.5	774.7	779.8	780.8
37.5°	698.8	715.2	730.6	740.8	750.1	755.2	759.3	760.3
40°	680.4	695.8	709.1	718.3	726.5	731.6	734.7	736.7
42.5°	659.9	673.2	684.5	692.7	698.8	704.0	706.0	708.1
45°	637.4	648.6	658.9	666.0	671.2	674.2	677.3	678.3
47.5°	614.8	625.1	633.3	639.4	641.5	644.5	645.5	646.6
50°	592.3	600.5	607.6	610.7	613.8	615.8	615.8	616.9
52.5°	569.7	577.9	581.0	585.1	587.1	588.2	588.2	588.2
55°	548.2	554.4	557.4	559.5	560.5	562.5	562.5	562.5
57.5°	527.7	531.8	532.8	534.9	535.9	538.0	538.0	538.0
60°	505.2	509.3	510.3	511.3	512.3	514.4	515.4	515.4
62.5°	484.7	487.7	486.7	488.8	489.8	491.8	493.9	494.9
65°	462.1	464.2	464.2	465.2	468.3	469.3	471.4	472.4
67.5°	439.6	440.6	440.6	442.7	444.7	446.8	447.8	448.8
70°	414.0	416.0	415.0	417.0	419.1	421.1	423.2	423.2
72.5°	387.3	388.4	389.4	388.4	390.4	392.5	393.5	394.5
75°	356.6	358.6	358.6	356.6	357.6	357.6	358.6	358.6
77.5°	320.7	319.7	316.6	314.6	314.6	315.6	315.6	316.6
80°	279.7	277.7	275.6	273.6	273.6	274.6	274.6	276.7
82.5°	234.7	232.6	230.6	229.5	230.6	230.6	231.6	232.6
85°	181.4	178.3	181.4	179.3	181.4	181.4	181.4	183.4
87.5°	112.7	113.7	116.8	115.8	114.8	115.8	119.9	117.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)