

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: P188349

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188349  
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-LD2-25-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**

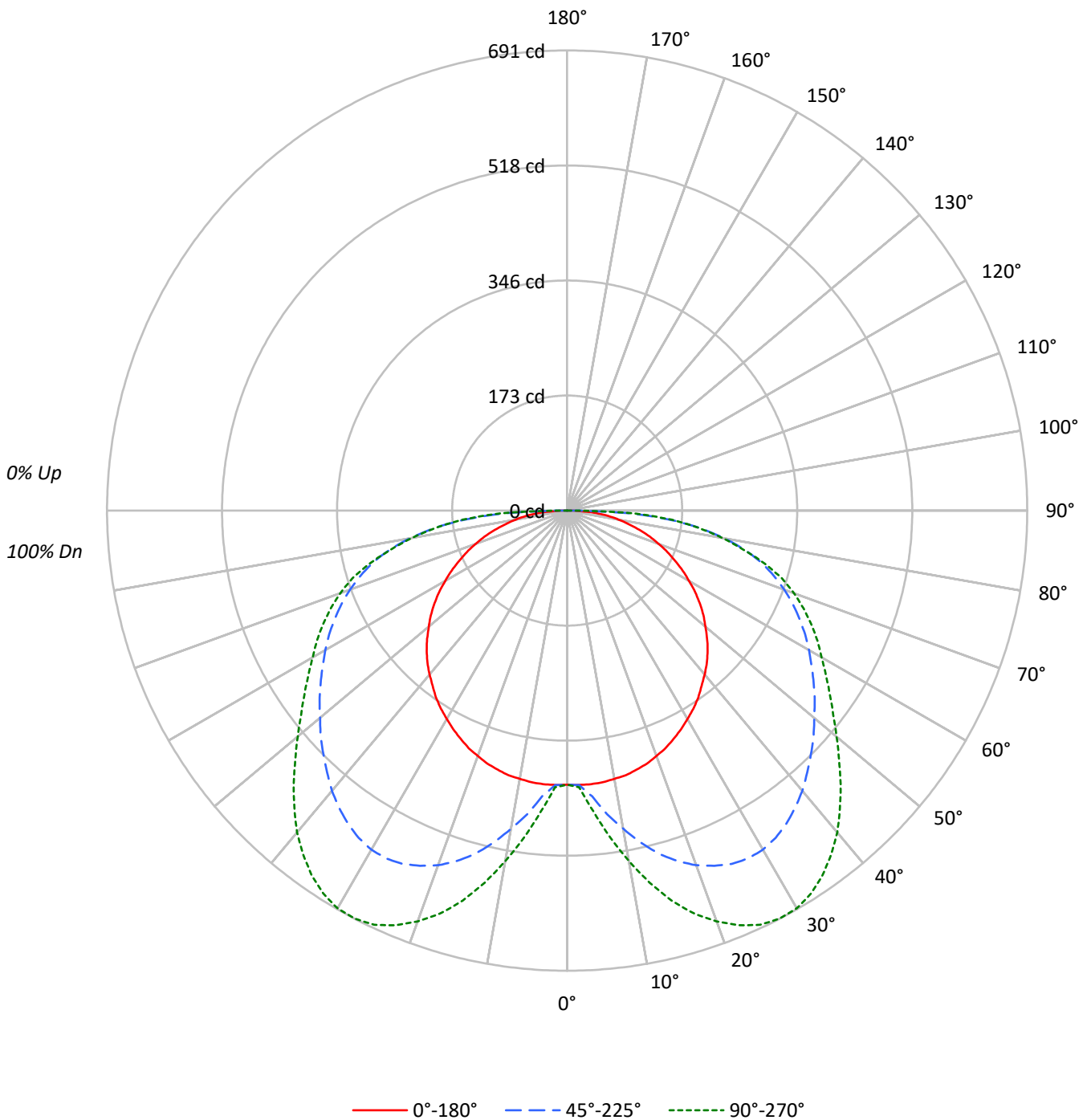
Lumens per Lamp: N/A  
Luminaire Lumens: 2283.0 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 2 / 1.87  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (A<sub>in</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	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°	1206	1206	1206
5°	1213	1267	1334
10°	1217	1444	1590
15°	1222	1618	1839
20°	1223	1767	2047
25°	1223	1892	2218
30°	1223	1989	2333
35°	1227	2053	2392
40°	1229	2101	2413
45°	1236	2145	2407
50°	1236	2208	2408
55°	1242	2308	2461
60°	1239	2458	2587
65°	1241	2671	2804
70°	1255	2969	3105
75°	1271	3418	3477
80°	1333	4043	3997
85°	1476	5164	5281



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	1.9
10°-20°	147.4	6.5
20°-30°	259.0	11.3
30°-40°	340.9	14.9
40°-50°	375.0	16.4
50°-60°	371.5	16.3
60°-70°	341.9	15.0
70°-80°	274.1	12.0
80°-90°	130.4	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°	449.1	19.7
0°-40°	790.0	34.6
0°-60°	1536.5	67.3
0°-90°	2283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2283.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	412	414	431	448	454	39
15°	403	455	534	586	606	114
25°	378	472	585	659	686	174
35°	343	456	574	645	669	214
45°	298	415	518	567	581	230
55°	243	361	452	478	482	217
65°	179	301	385	398	404	177
75°	112	226	302	306	307	119
85°	44	107	154	154	157	46
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°	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5
2.5°	412.4	413.3	412.4	412.4	412.4	412.4	412.4	412.4	412.4	412.4	413.3
5°	412.4	412.4	412.4	412.4	412.4	415.0	417.7	421.2	426.5	430.8	436.1
7.5°	411.5	411.5	411.5	412.4	417.7	424.7	433.5	442.2	451.9	459.8	466.8
10°	408.9	408.9	409.8	415.9	425.6	438.7	451.0	463.3	473.8	485.2	496.7
12.5°	407.1	407.1	409.8	421.2	436.1	452.8	467.7	482.6	497.5	510.7	523.9
15°	402.8	402.8	408.9	425.6	445.8	464.2	482.6	500.2	517.7	533.5	548.4
17.5°	398.4	398.4	408.0	430.0	451.9	473.0	494.0	515.1	534.4	551.9	568.6
20°	392.2	393.1	407.1	431.7	455.4	480.0	503.7	525.6	547.5	566.8	585.3
22.5°	386.1	387.0	405.4	432.6	458.0	484.4	509.8	534.4	557.2	577.4	597.6
25°	378.2	380.8	401.9	430.8	458.9	486.1	513.3	538.8	563.3	585.3	605.5
27.5°	370.3	373.8	397.5	427.3	457.2	485.2	513.3	540.5	565.1	588.8	609.0
30°	361.5	365.9	392.2	422.9	453.7	482.6	511.6	538.8	564.2	587.9	608.1
32.5°	352.7	357.1	385.2	416.8	447.5	477.3	506.3	534.4	559.0	582.6	603.7
35°	343.1	349.2	378.2	409.8	441.4	471.2	500.2	527.4	551.9	573.9	594.1
37.5°	331.7	339.6	368.5	401.0	432.6	462.4	490.5	517.7	541.4	562.5	581.8
40°	321.2	329.9	359.8	391.4	422.9	452.8	480.0	506.3	529.1	549.3	567.7
42.5°	310.6	320.3	349.2	380.8	411.5	441.4	468.6	493.1	515.1	533.5	551.1
45°	298.3	308.9	337.8	369.4	400.1	429.1	455.4	479.1	501.0	517.7	533.5
47.5°	285.2	297.5	326.4	358.0	387.8	415.9	442.2	464.2	484.4	501.9	516.0
50°	271.1	285.2	314.1	345.7	374.7	402.8	428.2	450.1	468.6	484.4	497.5
52.5°	258.0	272.0	301.0	331.7	361.5	389.6	414.2	435.2	452.8	468.6	480.0
55°	243.1	258.0	287.8	317.6	347.5	374.7	399.3	420.3	437.0	451.9	462.4
57.5°	228.1	243.9	272.9	303.6	332.6	360.6	385.2	405.4	422.1	435.2	444.9
60°	211.5	229.0	258.0	288.7	318.5	345.7	370.3	390.5	406.3	419.4	427.3
62.5°	195.7	213.2	243.9	273.8	302.7	330.8	355.4	374.7	390.5	402.8	409.8
65°	179.0	197.4	227.3	258.0	286.9	315.0	338.7	358.9	373.8	385.2	392.2
67.5°	163.2	181.6	210.6	240.4	269.4	298.3	321.2	340.5	355.4	366.8	372.9
70°	146.5	165.0	193.9	222.0	251.8	279.0	302.7	322.0	336.1	346.6	352.7
72.5°	129.9	149.2	175.5	204.5	232.5	260.6	282.5	301.9	315.9	325.5	330.8
75°	112.3	131.6	157.9	183.4	212.3	239.6	261.5	279.9	293.1	301.9	306.2
77.5°	95.6	113.2	138.6	164.1	189.5	215.9	236.9	255.3	265.9	273.8	278.2
80°	79.0	94.8	117.6	141.3	164.1	188.7	208.0	224.6	235.2	239.6	242.2
82.5°	62.3	76.3	93.9	114.9	135.1	155.3	172.9	186.9	194.8	200.9	202.7
85°	43.9	52.6	66.7	81.6	98.3	114.9	130.7	141.3	149.2	153.6	154.4
87.5°	22.8	26.3	33.3	42.1	54.4	65.8	74.6	81.6	87.7	92.1	96.5
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°	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5
2.5°	413.3	413.3	415.0	415.0	415.9	415.9	415.0	415.9
5°	439.6	443.1	448.4	448.4	451.9	453.7	453.7	453.7
7.5°	472.1	477.3	483.5	487.0	491.4	494.0	494.9	494.9
10°	503.7	511.6	518.6	523.9	529.1	531.7	534.4	534.4
12.5°	533.5	543.2	551.9	559.0	565.1	568.6	571.2	572.1
15°	560.7	573.0	581.8	590.5	597.6	601.9	604.6	606.3
17.5°	583.5	596.7	607.2	616.0	623.9	629.1	633.5	634.4
20°	601.1	615.1	627.4	637.0	645.8	651.1	655.5	656.4
22.5°	614.2	630.0	643.2	653.7	662.5	668.6	672.1	673.9
25°	623.0	638.8	653.7	665.1	674.8	680.9	683.6	686.2
27.5°	627.4	644.1	659.0	670.4	680.0	686.2	689.7	690.6
30°	627.4	643.2	658.1	669.5	678.3	684.4	687.9	689.7
32.5°	621.3	637.0	651.1	662.5	670.4	676.5	680.0	681.8
35°	611.6	626.5	640.6	650.2	659.0	663.4	667.8	668.6
37.5°	598.4	612.5	625.6	634.4	642.3	646.7	650.2	651.1
40°	582.6	595.8	607.2	615.1	622.1	626.5	629.1	630.9
42.5°	565.1	576.5	586.2	593.2	598.4	602.8	604.6	606.3
45°	545.8	555.4	564.2	570.4	574.7	577.4	580.0	580.9
47.5°	526.5	535.3	542.3	547.5	549.3	551.9	552.8	553.7
50°	507.2	514.2	520.3	523.0	525.6	527.4	527.4	528.2
52.5°	487.9	494.9	497.5	501.0	502.8	503.7	503.7	503.7
55°	469.4	474.7	477.3	479.1	480.0	481.7	481.7	481.7
57.5°	451.9	455.4	456.3	458.0	458.9	460.7	460.7	460.7
60°	432.6	436.1	437.0	437.9	438.7	440.5	441.4	441.4
62.5°	415.0	417.7	416.8	418.6	419.4	421.2	422.9	423.8
65°	395.7	397.5	397.5	398.4	401.0	401.9	403.6	404.5
67.5°	376.4	377.3	377.3	379.1	380.8	382.6	383.5	384.3
70°	354.5	356.3	355.4	357.1	358.9	360.6	362.4	362.4
72.5°	331.7	332.6	333.4	332.6	334.3	336.1	337.0	337.8
75°	305.4	307.1	307.1	305.4	306.2	306.2	307.1	307.1
77.5°	274.6	273.8	271.1	269.4	269.4	270.3	270.3	271.1
80°	239.6	237.8	236.0	234.3	234.3	235.2	235.2	236.9
82.5°	200.9	199.2	197.4	196.6	197.4	197.4	198.3	199.2
85°	155.3	152.7	155.3	153.6	155.3	155.3	155.3	157.1
87.5°	96.5	97.4	100.0	99.2	98.3	99.2	102.7	100.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)