

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: P188524

Luminaire Tested: **24SR-LD2-34-C-UNV-L840-CD1-PG-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24780)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-34-C-UNV-L840-CD1-PG-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

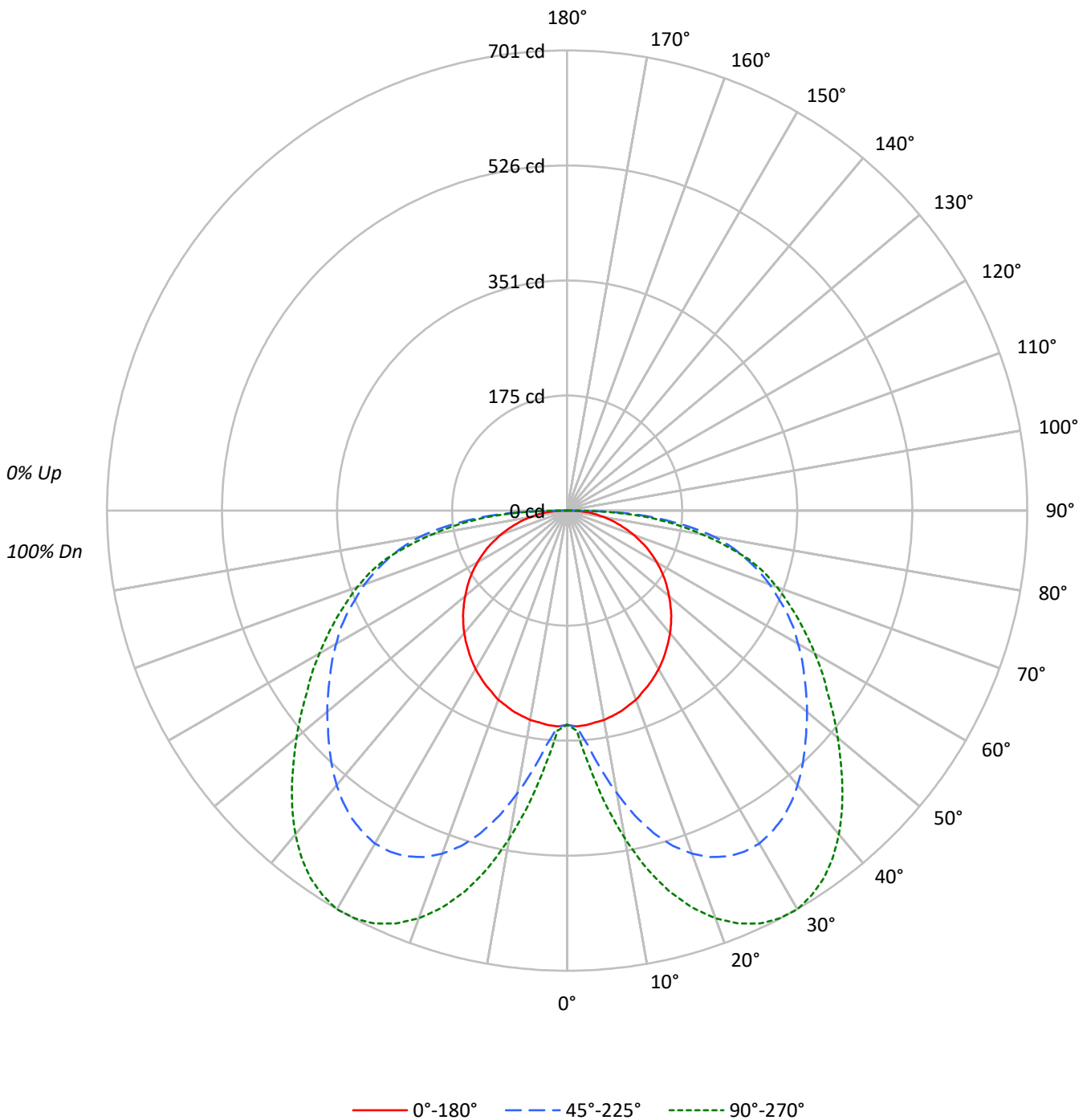
Lumens per Lamp: N/A  
Luminaire Lumens: 2176.0 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 2.25 / 2.05  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.2  
Input Voltage (V): NR  
Input Current (A<sub>in</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	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	46	36	29	58	45	36	29	43	35	29	42	34	29	40	33	28	26
8	56	41	32	26	54	41	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	23	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°	439	439	439
5°	443	483	529
10°	442	598	694
15°	441	708	836
20°	439	796	946
25°	435	863	1030
30°	433	910	1090
35°	430	940	1121
40°	428	959	1131
45°	427	974	1128
50°	424	999	1126
55°	425	1035	1136
60°	425	1093	1173
65°	425	1176	1233
70°	423	1291	1337
75°	424	1464	1487
80°	438	1758	1619
85°	513	2188	1967



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.3	1.7
10°-20°	137.3	6.3
20°-30°	249.9	11.5
30°-40°	331.5	15.2
40°-50°	363.2	16.7
50°-60°	357.0	16.4
60°-70°	323.8	14.9
70°-80°	256.6	11.8
80°-90°	120.3	5.5
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°	423.6	19.5
0°-40°	755.1	34.7
0°-60°	1475.3	67.8
0°-90°	2176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2176.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	326	326	326	326	326	
5°	328	330	358	383	392	31
15°	317	393	508	577	600	89
25°	293	434	581	664	694	135
35°	262	424	572	653	682	164
45°	224	381	512	574	593	173
55°	181	335	441	476	484	162
65°	134	289	370	380	387	132
75°	82	223	282	282	286	86
85°	33	120	142	127	127	34
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°	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4
2.5°	329.1	328.2	328.2	328.2	327.3	327.3	327.3	328.2	328.2	329.1	330.9
5°	328.2	327.3	327.3	327.3	329.1	331.8	337.2	343.5	350.7	357.8	365.9
7.5°	325.5	325.5	325.5	328.2	336.3	347.1	360.5	374.0	385.6	398.2	409.9
10°	323.8	323.8	325.5	334.5	350.7	368.6	386.5	404.5	420.6	437.7	453.8
12.5°	320.2	320.2	325.5	342.6	365.0	388.3	410.7	433.2	454.7	475.3	493.3
15°	316.6	316.6	328.2	352.5	379.4	407.2	434.1	460.1	485.2	508.5	529.1
17.5°	311.2	312.1	330.0	359.6	391.9	423.3	452.9	482.5	509.4	535.4	556.9
20°	306.7	308.5	331.8	365.9	401.8	436.8	469.9	500.4	529.1	556.0	579.4
22.5°	299.5	303.1	332.7	370.4	409.0	446.6	480.7	513.0	543.5	571.3	594.6
25°	293.3	297.7	331.8	372.2	414.3	452.9	487.9	521.1	552.4	581.1	605.4
27.5°	286.1	293.3	330.9	373.1	416.1	455.6	491.5	525.5	556.9	585.6	610.7
30°	278.9	287.9	328.2	372.2	415.2	454.7	490.6	525.5	556.9	585.6	609.8
32.5°	270.8	280.7	322.9	367.7	411.6	450.2	486.1	520.2	552.4	580.2	604.5
35°	261.9	273.5	316.6	361.4	404.5	443.0	478.0	512.1	543.5	572.2	595.5
37.5°	252.9	266.4	309.4	354.2	396.4	434.1	468.1	502.2	532.7	560.5	582.9
40°	243.9	258.3	301.3	345.3	386.5	423.3	457.4	490.6	519.3	546.2	566.8
42.5°	234.1	250.2	292.4	335.4	374.9	410.7	444.8	477.1	504.9	530.0	549.8
45°	224.2	240.4	282.5	324.7	364.1	398.2	431.4	462.8	488.8	512.1	530.9
47.5°	213.4	231.4	273.5	313.9	351.6	386.5	418.8	447.5	473.5	494.2	512.1
50°	202.7	221.5	262.8	303.1	339.9	374.0	405.4	433.2	457.4	477.1	492.4
52.5°	191.9	211.7	252.9	292.4	329.1	362.3	392.8	418.8	441.2	459.2	474.4
55°	181.2	201.8	243.0	281.6	318.4	350.7	380.3	404.5	426.0	441.2	453.8
57.5°	169.5	191.9	233.2	271.7	307.6	339.9	367.7	391.0	410.7	424.2	435.0
60°	157.8	181.2	222.4	261.9	296.9	328.2	355.1	377.6	394.6	406.3	416.1
62.5°	145.3	170.4	212.5	251.1	286.1	316.6	341.7	361.4	378.5	389.2	394.6
65°	133.6	159.6	201.8	240.4	274.4	303.1	327.3	346.2	360.5	369.5	374.0
67.5°	120.2	148.0	190.1	228.7	261.0	288.8	311.2	329.1	341.7	348.0	351.6
70°	107.6	136.3	177.6	215.2	245.7	272.6	294.2	311.2	322.0	328.2	329.1
72.5°	94.2	123.8	165.0	200.9	230.5	255.6	276.2	291.5	300.4	305.8	306.7
75°	81.6	110.3	149.8	183.9	211.7	235.0	254.7	269.0	278.0	281.6	281.6
77.5°	69.1	96.0	133.6	165.9	191.9	213.4	231.4	245.7	252.9	256.5	256.5
80°	56.5	82.5	116.6	146.2	169.5	189.2	207.2	219.7	226.9	226.9	221.5
82.5°	44.8	67.3	96.9	123.8	143.5	161.4	178.5	186.5	188.3	186.5	182.1
85°	33.2	51.1	75.3	96.0	113.9	126.5	137.2	142.6	143.5	141.7	138.1
87.5°	18.8	29.6	43.0	56.5	68.2	74.4	83.4	85.2	85.2	87.9	83.4
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°	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4
2.5°	331.8	332.7	332.7	335.4	335.4	336.3	335.4	335.4
5°	371.3	374.9	380.3	385.6	387.4	391.0	390.1	391.9
7.5°	418.8	426.0	434.1	441.2	444.8	448.4	449.3	452.0
10°	466.4	475.3	485.2	495.1	500.4	503.1	506.7	507.6
12.5°	507.6	521.1	530.9	541.7	548.9	552.4	556.0	557.8
15°	545.3	558.7	571.3	582.9	590.1	595.5	599.1	600.0
17.5°	574.0	589.2	602.7	615.2	622.4	628.7	632.3	634.1
20°	596.4	613.4	626.9	639.4	647.5	654.7	660.1	661.0
22.5°	612.5	629.6	644.8	657.4	667.2	674.4	678.9	680.7
25°	624.2	642.1	657.4	669.9	679.8	687.9	692.4	694.1
27.5°	629.6	648.4	664.6	676.2	686.1	694.1	699.5	700.4
30°	630.5	648.4	664.6	677.1	687.0	695.0	699.5	701.3
32.5°	624.2	643.0	659.2	670.8	680.7	688.8	693.3	694.1
35°	615.2	632.3	647.5	659.2	669.0	676.2	680.7	682.5
37.5°	601.8	617.9	632.3	643.0	652.0	659.2	663.7	665.4
40°	585.6	600.9	614.3	624.2	632.3	638.5	642.1	643.9
42.5°	566.8	581.1	593.7	601.8	609.8	615.2	617.9	619.7
45°	547.1	560.5	570.4	577.6	584.7	589.2	591.9	592.8
47.5°	526.4	538.1	546.2	552.4	557.8	562.3	565.0	565.0
50°	505.8	515.7	522.0	528.2	532.7	535.4	537.2	538.1
52.5°	485.2	493.3	497.7	503.1	506.7	509.4	511.2	511.2
55°	463.7	469.9	473.5	478.0	481.6	483.4	485.2	484.3
57.5°	443.0	447.5	450.2	453.8	456.5	458.3	460.1	461.0
60°	421.5	425.1	426.0	429.6	432.3	434.1	435.0	435.9
62.5°	399.1	401.8	403.6	405.4	408.1	409.9	410.7	411.6
65°	376.7	378.5	378.5	382.1	384.7	385.6	386.5	387.4
67.5°	353.4	354.2	355.1	357.8	360.5	361.4	363.2	363.2
70°	330.0	330.0	330.9	333.6	336.3	337.2	339.0	339.9
72.5°	305.8	306.7	306.7	309.4	312.1	313.9	314.8	315.7
75°	280.7	280.7	281.6	282.5	283.4	284.3	284.3	286.1
77.5°	253.8	250.2	248.4	246.6	247.5	247.5	246.6	247.5
80°	216.1	211.7	209.0	208.1	209.0	208.1	208.1	209.0
82.5°	177.6	172.2	170.4	169.5	169.5	169.5	168.6	170.4
85°	133.6	130.0	128.2	126.5	127.4	127.4	126.5	127.4
87.5°	80.7	78.9	77.1	75.3	76.2	75.3	74.4	77.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)