

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: P188682

Luminaire Tested: **24SR-LD2-34-C-UNV-L830-CD1-TB-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33587)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-34-C-UNV-L830-CD1-TB-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH TAHITIAN BLUE SKYTRIM.  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

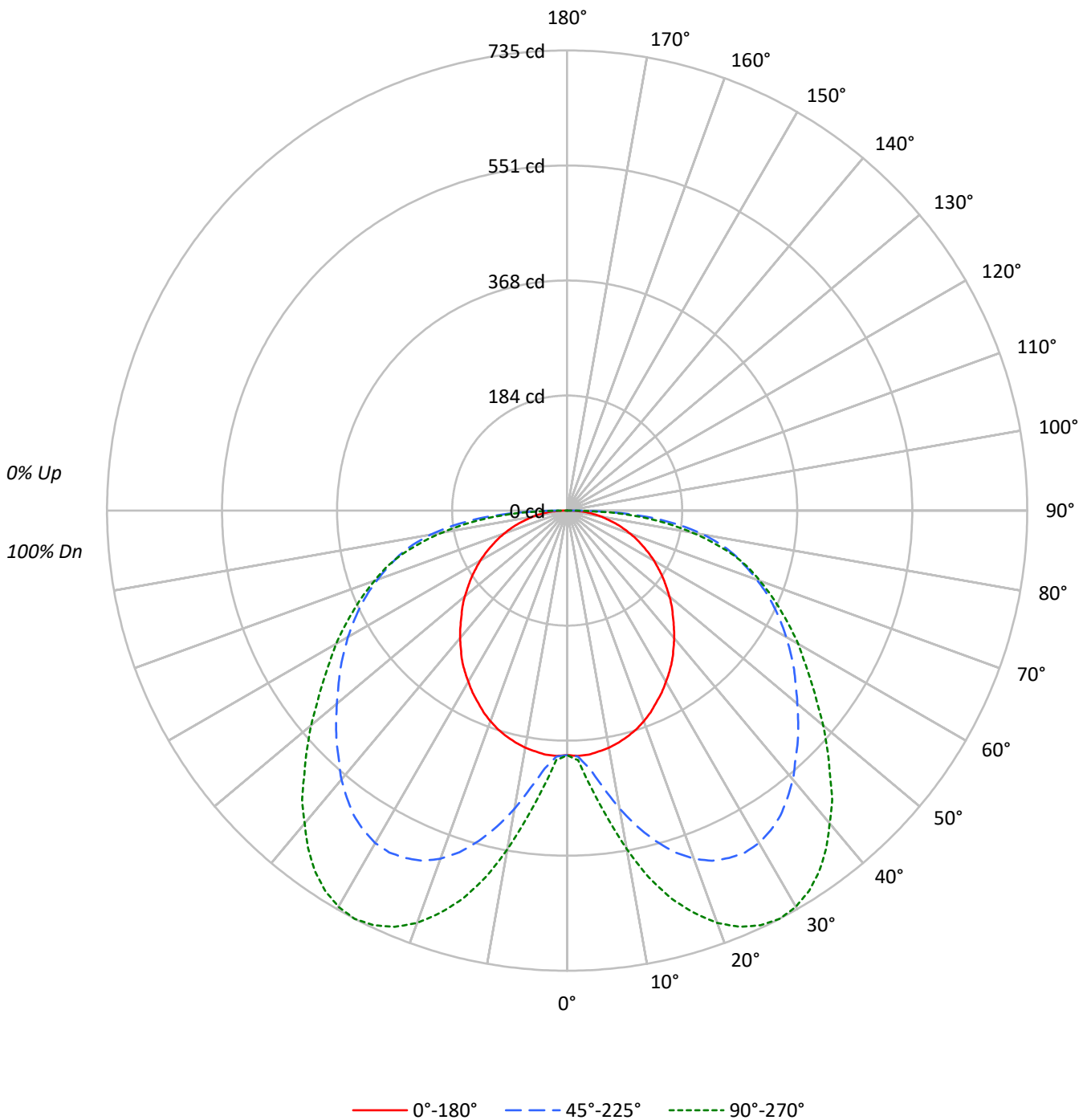
Lumens per Lamp: N/A  
Luminaire Lumens: 2218.0 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 2.07 / 1.9  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.2  
Input Voltage (V): NR  
Input Current (A<sub>in</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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	106	100	95	91	103	98	93	89	94	90	86	90	86	83	86	83	81	79				79
2	95	86	78	71	93	84	77	70	80	74	69	77	72	67	74	69	65	63				63
3	86	74	65	58	83	73	64	57	69	62	56	67	60	55	64	59	54	52				52
4	78	65	55	48	76	64	54	47	61	53	47	59	52	46	56	50	45	43				43
5	72	58	48	40	69	56	47	40	54	46	40	52	45	39	50	44	39	36				36
6	66	51	42	35	64	50	41	35	49	40	34	47	39	34	45	39	34	31				31
7	61	46	37	30	59	45	37	30	44	36	30	42	35	30	41	34	29	27				27
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24				24
9	53	38	30	24	51	38	29	24	37	29	24	35	28	23	34	28	23	21				21
10	49	35	27	21	48	35	27	21	34	26	21	33	26	21	32	25	21	19				19

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

	0°	45°	90°
0°	525	525	525
5°	529	558	601
10°	525	660	750
15°	520	761	893
20°	513	847	1004
25°	501	909	1085
30°	490	953	1135
35°	480	976	1154
40°	467	985	1146
45°	454	991	1129
50°	446	1005	1117
55°	438	1038	1116
60°	431	1088	1147
65°	423	1162	1197
70°	419	1268	1288
75°	416	1445	1432
80°	429	1718	1572
85°	474	2132	1843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.6	1.9
10°-20°	150.2	6.8
20°-30°	267.5	12.1
30°-40°	346.9	15.6
40°-50°	369.9	16.7
50°-60°	355.8	16.0
60°-70°	318.4	14.4
70°-80°	250.7	11.3
80°-90°	116.9	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°	459.4	20.7
0°-40°	806.3	36.4
0°-60°	1532.0	69.1
0°-90°	2218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2218.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	390	390	390	390	390	
5°	391	396	414	436	445	37
15°	374	444	546	618	641	105
25°	338	472	612	704	731	156
35°	292	449	594	680	703	183
45°	239	392	521	582	593	185
55°	187	336	442	472	476	167
65°	133	285	365	373	376	132
75°	80	220	278	274	275	85
85°	31	116	138	123	119	32
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°	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.5
2.5°	392.2	392.2	391.4	391.4	392.2	392.2	392.2	392.2	393.1	393.1	393.9
5°	391.4	390.5	390.5	392.2	394.8	397.3	399.9	404.2	407.6	413.5	418.6
7.5°	388.0	388.0	389.7	393.9	399.9	408.4	417.8	428.0	437.4	446.8	457.9
10°	384.5	384.5	388.8	396.5	408.4	423.8	439.1	454.5	469.0	483.4	495.4
12.5°	379.4	380.3	387.1	400.7	420.4	441.7	461.3	480.9	500.5	516.7	534.6
15°	373.5	375.2	385.4	405.9	431.4	457.0	480.9	504.8	526.9	546.5	565.3
17.5°	366.6	369.2	383.7	410.1	440.0	469.0	498.8	526.1	550.0	572.1	593.4
20°	358.1	362.4	382.0	413.5	446.8	480.0	511.6	540.6	567.9	591.7	615.6
22.5°	348.7	353.8	378.6	414.4	451.0	486.9	521.8	551.7	580.7	605.4	630.1
25°	337.6	345.3	375.2	413.5	452.8	491.1	526.9	557.6	587.5	612.2	639.5
27.5°	327.4	335.9	369.2	410.1	451.0	491.1	526.9	559.3	590.0	615.6	642.0
30°	315.5	326.6	363.2	405.0	446.8	486.9	523.5	555.9	585.8	613.1	640.3
32.5°	304.4	316.3	353.8	396.5	439.1	479.2	516.7	548.3	578.1	605.4	631.8
35°	292.5	304.4	343.6	388.0	428.9	469.0	504.8	537.2	566.2	594.3	619.0
37.5°	278.8	292.5	332.5	376.0	416.1	456.2	491.1	522.7	551.7	578.1	602.0
40°	266.0	280.5	319.7	363.2	403.3	441.7	475.8	505.6	533.8	561.0	582.4
42.5°	252.4	267.7	307.8	349.6	388.8	425.5	457.9	488.6	515.9	539.7	561.0
45°	238.7	255.8	295.0	335.9	373.5	410.1	442.5	470.7	497.1	521.0	538.9
47.5°	226.8	243.9	281.4	322.3	359.8	394.8	426.3	453.6	479.2	500.5	518.4
50°	213.2	230.2	268.6	308.7	345.3	380.3	410.1	436.6	460.4	480.0	497.1
52.5°	199.5	218.3	255.8	295.9	332.5	365.8	395.6	421.2	442.5	460.4	474.9
55°	186.7	205.5	243.9	283.1	319.7	353.0	381.1	405.9	426.3	442.5	453.6
57.5°	173.1	193.6	232.8	272.0	307.8	339.4	367.5	390.5	409.3	422.9	432.3
60°	160.3	181.6	221.7	260.1	295.9	327.4	353.8	376.0	392.2	404.2	411.8
62.5°	146.7	169.7	209.8	248.1	283.1	314.6	339.4	359.8	375.2	384.5	389.7
65°	133.0	157.7	197.8	236.2	270.3	300.1	324.0	342.8	356.4	364.9	369.2
67.5°	120.2	145.8	185.9	223.4	256.6	284.8	307.8	325.7	337.6	344.5	346.2
70°	106.6	133.0	173.1	209.8	242.2	268.6	290.8	306.1	317.2	322.3	324.0
72.5°	93.8	120.2	159.4	195.3	226.0	250.7	272.0	287.3	296.7	300.1	300.1
75°	80.1	106.6	144.9	179.1	207.2	231.9	251.5	265.2	273.7	278.0	276.3
77.5°	66.5	92.9	129.6	161.1	186.7	208.9	228.5	241.3	249.8	252.4	250.7
80°	55.4	79.3	111.7	140.7	164.6	185.0	202.9	215.7	223.4	221.7	217.4
82.5°	42.6	64.8	92.9	117.7	139.0	158.6	175.6	185.9	187.6	184.2	179.1
85°	30.7	47.7	70.8	90.4	109.1	123.6	135.6	142.4	142.4	138.1	134.7
87.5°	17.9	28.1	40.9	54.6	63.1	72.5	81.9	83.6	83.6	83.6	79.3
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°	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.5
2.5°	396.5	397.3	398.2	399.0	399.9	399.9	399.9	399.0
5°	423.8	428.9	433.1	438.3	440.0	441.7	443.4	445.1
7.5°	467.2	474.1	480.9	487.7	492.0	497.1	495.4	495.4
10°	509.0	521.8	529.5	538.0	542.3	547.4	550.0	549.1
12.5°	550.0	564.5	575.5	583.2	590.0	595.1	596.9	599.4
15°	584.9	599.4	613.1	622.4	631.0	636.1	639.5	641.2
17.5°	613.9	628.4	643.7	655.7	663.4	670.2	671.9	673.6
20°	635.2	654.0	668.5	681.3	689.8	696.6	700.0	700.9
22.5°	652.3	670.2	686.4	699.2	708.5	716.2	719.6	719.6
25°	661.7	680.4	697.5	711.1	720.5	727.3	730.7	730.7
27.5°	665.1	684.7	700.9	714.5	724.7	731.6	734.1	735.0
30°	662.5	682.1	698.3	711.1	721.3	727.3	729.9	730.7
32.5°	654.0	673.6	688.9	700.9	710.3	717.1	719.6	719.6
35°	640.3	658.2	673.6	685.5	694.1	699.2	702.6	702.6
37.5°	622.4	640.3	654.0	664.2	671.9	677.9	679.6	679.6
40°	602.0	617.3	630.1	640.3	647.2	651.4	653.1	652.3
42.5°	578.9	593.4	603.7	612.2	618.2	622.4	625.0	626.7
45°	555.1	568.7	578.1	584.9	589.2	591.7	594.3	593.4
47.5°	533.8	542.3	550.8	555.9	560.2	562.7	563.6	563.6
50°	509.0	516.7	523.5	527.8	530.3	532.1	532.1	533.8
52.5°	484.3	491.1	496.2	500.5	502.2	503.1	503.9	503.1
55°	462.1	466.4	469.8	473.2	474.9	475.8	477.5	475.8
57.5°	439.1	442.5	446.8	447.6	449.3	449.3	450.2	449.3
60°	416.1	418.6	420.4	421.2	423.8	424.6	424.6	426.3
62.5°	393.1	393.9	396.5	397.3	398.2	399.9	401.6	400.7
65°	370.0	370.9	371.8	373.5	375.2	376.9	376.9	376.0
67.5°	346.2	347.0	347.9	349.6	351.3	351.3	352.1	352.1
70°	323.2	323.2	324.0	324.9	326.6	327.4	328.3	327.4
72.5°	299.3	299.3	299.3	300.1	301.0	302.7	303.5	303.5
75°	274.6	274.6	274.6	273.7	274.6	276.3	275.4	275.4
77.5°	247.3	244.7	242.2	240.4	241.3	240.4	240.4	240.4
80°	213.2	208.9	205.5	203.8	202.9	203.8	202.9	202.9
82.5°	175.6	171.4	168.0	165.4	166.3	164.6	165.4	163.7
85°	130.5	127.0	123.6	121.9	122.8	122.8	121.9	119.4
87.5°	76.7	72.5	71.6	70.8	71.6	70.8	68.2	69.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)