

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: P188685

Luminaire Tested: **24SR-LD2-34-C-UNV-L850-CD1-TB-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188685
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-L850-CD1-TB-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH TAHITIAN BLUE SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2538.0 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 2.07 / 1.9
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

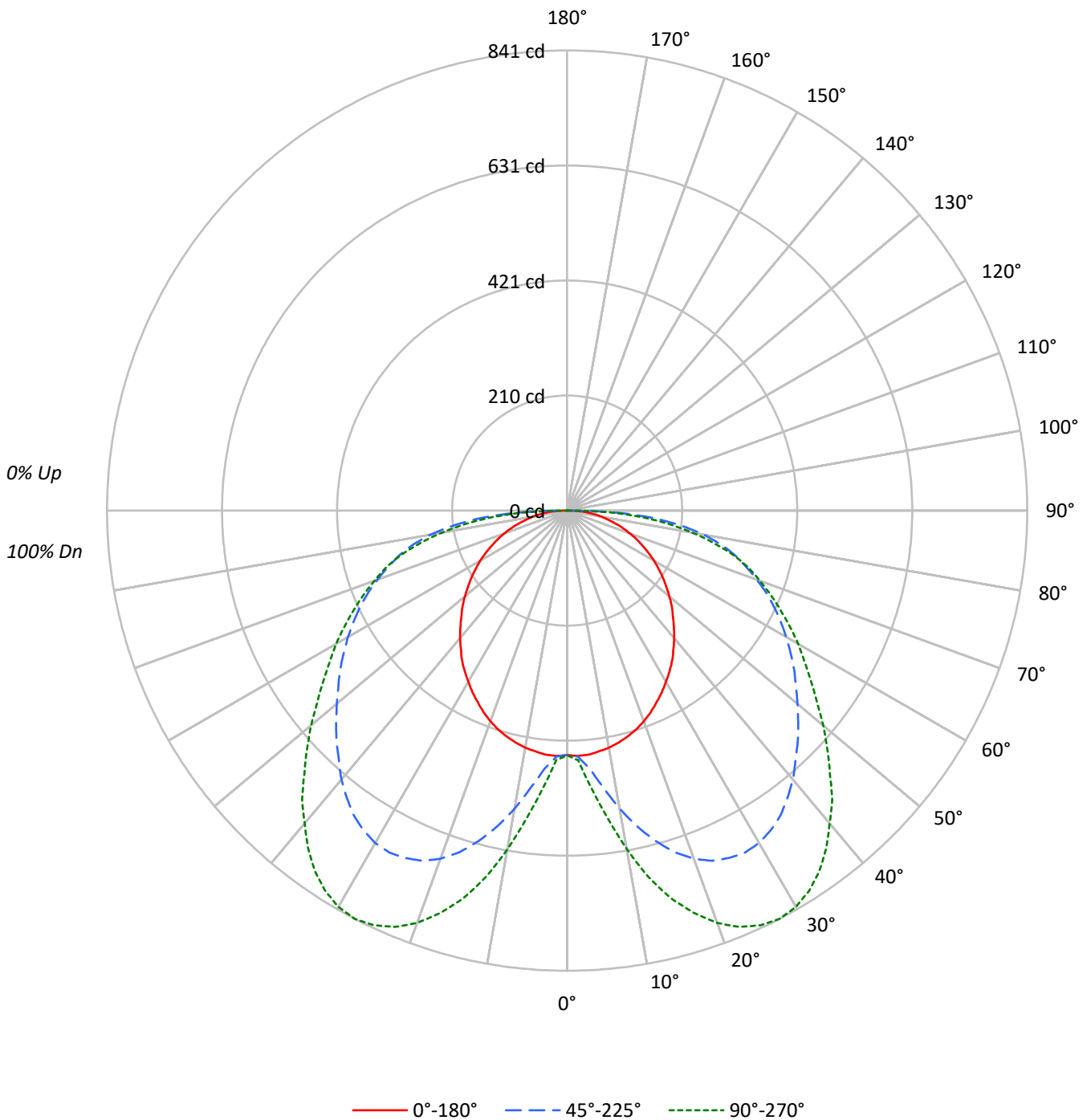
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	103	98	93	89	94	90	86	90	86	83	86	83	81	79
2	95	86	78	71	93	84	77	70	80	74	69	77	72	67	74	69	65	63
3	86	74	65	58	83	73	64	57	69	62	56	67	60	55	64	59	54	52
4	78	65	55	48	76	64	54	47	61	53	47	59	52	46	56	50	45	43
5	72	58	48	40	69	56	47	40	54	46	40	52	45	39	50	44	39	36
6	66	51	42	35	64	50	41	35	49	40	34	47	39	34	45	39	34	31
7	61	46	37	30	59	45	37	30	44	36	30	42	35	30	41	34	29	27
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24	35	28	23	34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21	33	26	21	32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	601	601	601
5°	605	639	688
10°	601	756	858
15°	595	871	1022
20°	587	969	1148
25°	574	1040	1241
30°	561	1090	1299
35°	550	1117	1320
40°	535	1128	1311
45°	520	1134	1292
50°	511	1150	1279
55°	501	1188	1277
60°	494	1245	1313
65°	485	1330	1370
70°	480	1451	1474
75°	477	1654	1638
80°	491	1966	1799
85°	542	2441	2109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	1.9
10°-20°	171.9	6.8
20°-30°	306.1	12.1
30°-40°	396.9	15.6
40°-50°	423.3	16.7
50°-60°	407.2	16.0
60°-70°	364.4	14.4
70°-80°	286.8	11.3
80°-90°	133.8	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°	525.6	20.7
0°-40°	922.6	36.4
0°-60°	1753.1	69.1
0°-90°	2538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	447	447	447	447	447	
5°	448	453	473	499	509	42
15°	427	508	625	707	734	120
25°	386	540	700	806	836	178
35°	335	514	680	778	804	209
45°	273	448	596	665	679	211
55°	214	385	506	540	544	191
65°	152	326	418	426	430	151
75°	92	251	318	314	315	97
85°	35	133	158	140	137	37
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°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9
2.5°	448.8	448.8	447.8	447.8	448.8	448.8	448.8	448.8	449.8	449.8	450.8
5°	447.8	446.9	446.9	448.8	451.7	454.7	457.6	462.5	466.4	473.2	479.0
7.5°	443.9	443.9	445.9	450.8	457.6	467.3	478.1	489.8	500.5	511.2	523.9
10°	440.0	440.0	444.9	453.7	467.3	484.9	502.5	520.0	536.6	553.2	566.9
12.5°	434.2	435.1	442.9	458.6	481.0	505.4	527.8	550.3	572.7	591.2	611.7
15°	427.3	429.3	441.0	464.4	493.7	523.0	550.3	577.6	603.0	625.4	646.9
17.5°	419.5	422.5	439.0	469.3	503.4	536.6	570.8	602.0	629.3	654.7	679.1
20°	409.8	414.7	437.1	473.2	511.2	549.3	585.4	618.6	649.8	677.1	704.4
22.5°	399.0	404.9	433.2	474.2	516.1	557.1	597.1	631.3	664.4	692.7	721.0
25°	386.4	395.1	429.3	473.2	518.1	562.0	603.0	638.1	672.2	700.5	731.7
27.5°	374.7	384.4	422.5	469.3	516.1	562.0	603.0	640.0	675.2	704.4	734.7
30°	361.0	373.7	415.6	463.4	511.2	557.1	599.1	636.1	670.3	701.5	732.7
32.5°	348.3	362.0	404.9	453.7	502.5	548.3	591.2	627.3	661.5	692.7	723.0
35°	334.7	348.3	393.2	443.9	490.8	536.6	577.6	614.7	647.8	680.0	708.3
37.5°	319.0	334.7	380.5	430.3	476.1	522.0	562.0	598.1	631.3	661.5	688.8
40°	304.4	321.0	365.9	415.6	461.5	505.4	544.4	578.6	610.8	642.0	666.4
42.5°	288.8	306.4	352.2	400.0	444.9	486.9	523.9	559.1	590.3	617.6	642.0
45°	273.2	292.7	337.6	384.4	427.3	469.3	506.4	538.6	568.8	596.1	616.6
47.5°	259.5	279.0	322.0	368.8	411.7	451.7	487.8	519.1	548.3	572.7	593.2
50°	243.9	263.4	307.3	353.2	395.1	435.1	469.3	499.5	526.9	549.3	568.8
52.5°	228.3	249.8	292.7	338.6	380.5	418.6	452.7	482.0	506.4	526.9	543.4
55°	213.7	235.1	279.0	323.9	365.9	403.9	436.1	464.4	487.8	506.4	519.1
57.5°	198.1	221.5	266.4	311.2	352.2	388.3	420.5	446.9	468.3	483.9	494.7
60°	183.4	207.8	253.7	297.6	338.6	374.7	404.9	430.3	448.8	462.5	471.2
62.5°	167.8	194.2	240.0	283.9	323.9	360.0	388.3	411.7	429.3	440.0	445.9
65°	152.2	180.5	226.4	270.3	309.3	343.4	370.8	392.2	407.8	417.6	422.5
67.5°	137.6	166.8	212.7	255.6	293.7	325.9	352.2	372.7	386.4	394.2	396.1
70°	122.0	152.2	198.1	240.0	277.1	307.3	332.7	350.3	362.9	368.8	370.8
72.5°	107.3	137.6	182.4	223.4	258.5	286.8	311.2	328.8	339.5	343.4	343.4
75°	91.7	122.0	165.9	204.9	237.1	265.4	287.8	303.4	313.2	318.1	316.1
77.5°	76.1	106.3	148.3	184.4	213.7	239.0	261.5	276.1	285.9	288.8	286.8
80°	63.4	90.7	127.8	161.0	188.3	211.7	232.2	246.8	255.6	253.7	248.8
82.5°	48.8	74.2	106.3	134.6	159.0	181.5	201.0	212.7	214.6	210.7	204.9
85°	35.1	54.6	81.0	103.4	124.9	141.5	155.1	162.9	162.9	158.1	154.2
87.5°	20.5	32.2	46.8	62.4	72.2	82.9	93.7	95.6	95.6	95.6	90.7
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°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9
2.5°	453.7	454.7	455.6	456.6	457.6	457.6	457.6	456.6
5°	484.9	490.8	495.6	501.5	503.4	505.4	507.3	509.3
7.5°	534.7	542.5	550.3	558.1	563.0	568.8	566.9	566.9
10°	582.5	597.1	605.9	615.6	620.5	626.4	629.3	628.3
12.5°	629.3	645.9	658.6	667.4	675.2	681.0	683.0	685.9
15°	669.3	685.9	701.5	712.2	722.0	727.8	731.7	733.7
17.5°	702.5	719.1	736.6	750.3	759.1	766.9	768.8	770.8
20°	726.9	748.3	764.9	779.6	789.3	797.1	801.0	802.0
22.5°	746.4	766.9	785.4	800.0	810.8	819.6	823.5	823.5
25°	757.1	778.6	798.1	813.7	824.4	832.2	836.1	836.1
27.5°	761.0	783.5	802.0	817.6	829.3	837.1	840.0	841.0
30°	758.1	780.5	799.1	813.7	825.4	832.2	835.2	836.1
32.5°	748.3	770.8	788.3	802.0	812.7	820.5	823.5	823.5
35°	732.7	753.2	770.8	784.4	794.2	800.0	803.9	803.9
37.5°	712.2	732.7	748.3	760.0	768.8	775.6	777.6	777.6
40°	688.8	706.4	721.0	732.7	740.5	745.4	747.4	746.4
42.5°	662.5	679.1	690.8	700.5	707.4	712.2	715.2	717.1
45°	635.2	650.8	661.5	669.3	674.2	677.1	680.0	679.1
47.5°	610.8	620.5	630.3	636.1	641.0	643.9	644.9	644.9
50°	582.5	591.2	599.1	603.9	606.9	608.8	608.8	610.8
52.5°	554.2	562.0	567.8	572.7	574.7	575.6	576.6	575.6
55°	528.8	533.7	537.6	541.5	543.4	544.4	546.4	544.4
57.5°	502.5	506.4	511.2	512.2	514.2	514.2	515.1	514.2
60°	476.1	479.0	481.0	482.0	484.9	485.9	485.9	487.8
62.5°	449.8	450.8	453.7	454.7	455.6	457.6	459.5	458.6
65°	423.4	424.4	425.4	427.3	429.3	431.2	431.2	430.3
67.5°	396.1	397.1	398.1	400.0	402.0	402.0	402.9	402.9
70°	369.8	369.8	370.8	371.7	373.7	374.7	375.6	374.7
72.5°	342.5	342.5	342.5	343.4	344.4	346.4	347.3	347.3
75°	314.2	314.2	314.2	313.2	314.2	316.1	315.1	315.1
77.5°	282.9	280.0	277.1	275.1	276.1	275.1	275.1	275.1
80°	243.9	239.0	235.1	233.2	232.2	233.2	232.2	232.2
82.5°	201.0	196.1	192.2	189.3	190.3	188.3	189.3	187.3
85°	149.3	145.4	141.5	139.5	140.5	140.5	139.5	136.6
87.5°	87.8	82.9	82.0	81.0	82.0	81.0	78.1	79.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)