

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: P188688

Luminaire Tested: **24SR-LD2-39-C-UNV-L835-CD1-TB-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188688
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-LD2-39-C-UNV-L835-CD1-TB-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH TAHITIAN BLUE SKYTRIM.

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2639.0 lumens
Efficiency: N/A
Efficacy: 82.7 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

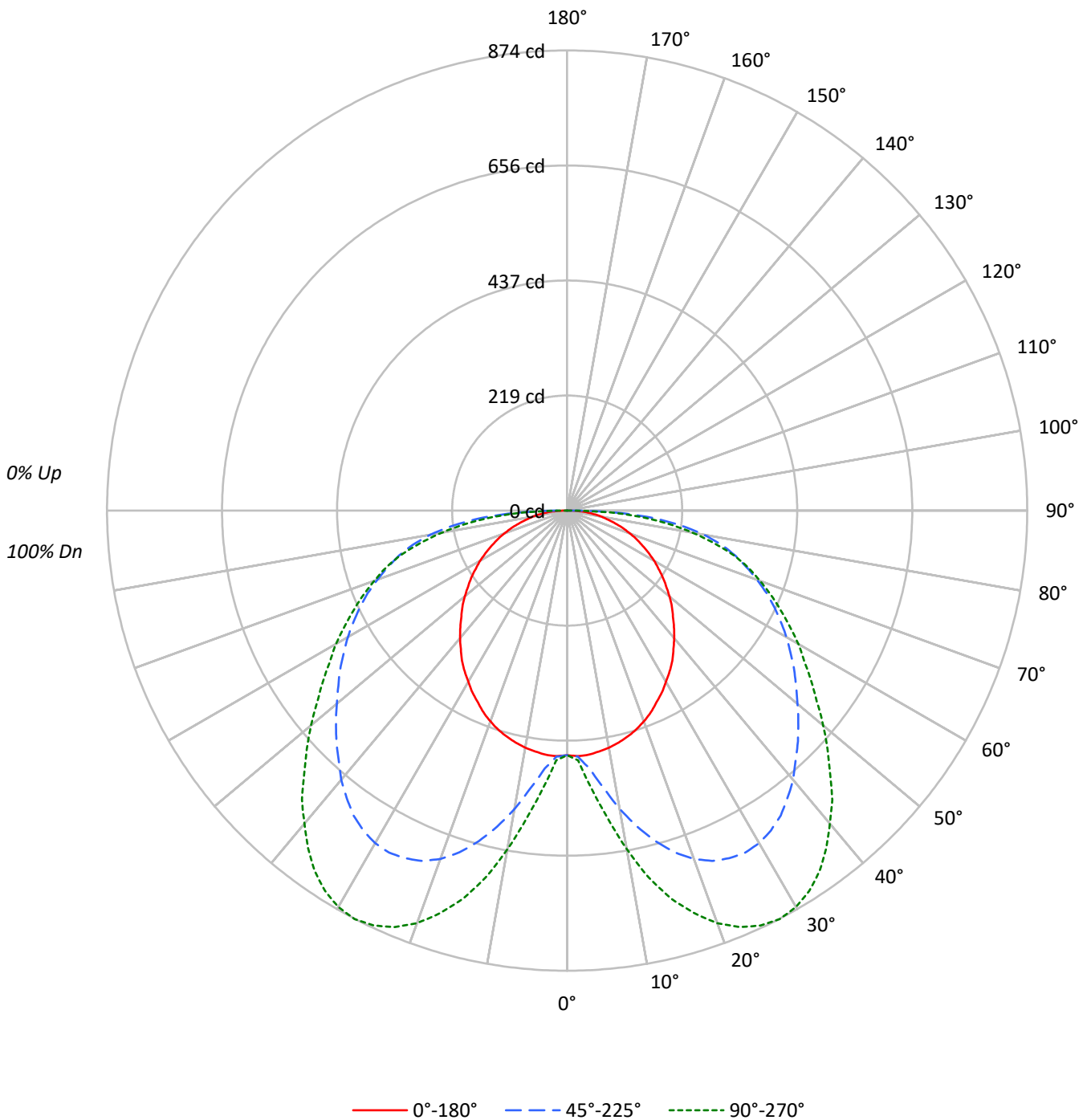
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	625	625	625
5°	629	665	715
10°	625	786	893
15°	619	906	1063
20°	610	1008	1194
25°	596	1081	1291
30°	583	1133	1351
35°	572	1161	1373
40°	556	1172	1363
45°	541	1180	1344
50°	531	1196	1329
55°	521	1235	1328
60°	513	1294	1365
65°	504	1382	1424
70°	499	1509	1533
75°	496	1719	1704
80°	511	2044	1870
85°	563	2536	2192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	1.9
10°-20°	178.7	6.8
20°-30°	318.3	12.1
30°-40°	412.7	15.6
40°-50°	440.1	16.7
50°-60°	423.4	16.0
60°-70°	378.9	14.4
70°-80°	298.3	11.3
80°-90°	139.1	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°	546.5	20.7
0°-40°	959.3	36.4
0°-60°	1822.8	69.1
0°-90°	2639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	466	471	492	518	530	44
15°	444	529	650	735	763	125
25°	402	562	728	838	869	185
35°	348	534	707	808	836	217
45°	284	466	620	692	706	220
55°	222	400	526	561	566	199
65°	158	339	434	443	447	157
75°	95	261	331	326	328	101
85°	36	138	164	146	142	39
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°	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6
2.5°	466.7	466.7	465.6	465.6	466.7	466.7	466.7	466.7	467.7	467.7	468.7
5°	465.6	464.6	464.6	466.7	469.7	472.8	475.8	480.9	484.9	492.0	498.1
7.5°	461.6	461.6	463.6	468.7	475.8	485.9	497.1	509.3	520.4	531.6	544.8
10°	457.5	457.5	462.6	471.7	485.9	504.2	522.5	540.7	558.0	575.2	589.4
12.5°	451.4	452.5	460.6	476.8	500.1	525.5	548.8	572.2	595.5	614.8	636.1
15°	444.3	446.4	458.5	482.9	513.3	543.8	572.2	600.6	627.0	650.3	672.6
17.5°	436.2	439.3	456.5	488.0	523.5	558.0	593.5	625.9	654.3	680.7	706.1
20°	426.1	431.2	454.5	492.0	531.6	571.2	608.7	643.2	675.6	704.1	732.5
22.5°	414.9	421.0	450.4	493.0	536.7	579.3	620.9	656.4	690.9	720.3	749.7
25°	401.7	410.9	446.4	492.0	538.7	584.3	627.0	663.5	699.0	728.4	760.9
27.5°	389.6	399.7	439.3	488.0	536.7	584.3	627.0	665.5	702.0	732.5	763.9
30°	375.4	388.5	432.2	481.9	531.6	579.3	622.9	661.4	697.0	729.4	761.9
32.5°	362.2	376.4	421.0	471.7	522.5	570.1	614.8	652.3	687.8	720.3	751.7
35°	348.0	362.2	408.8	461.6	510.3	558.0	600.6	639.1	673.6	707.1	736.5
37.5°	331.7	348.0	395.6	447.4	495.1	542.8	584.3	621.9	656.4	687.8	716.2
40°	316.5	333.8	380.4	432.2	479.9	525.5	566.1	601.6	635.1	667.5	692.9
42.5°	300.3	318.5	366.2	415.9	462.6	506.2	544.8	581.3	613.8	642.2	667.5
45°	284.1	304.3	351.0	399.7	444.3	488.0	526.5	560.0	591.4	619.9	641.2
47.5°	269.9	290.1	334.8	383.5	428.1	469.7	507.2	539.7	570.1	595.5	616.8
50°	253.6	273.9	319.6	367.2	410.9	452.5	488.0	519.4	547.8	571.2	591.4
52.5°	237.4	259.7	304.3	352.0	395.6	435.2	470.7	501.2	526.5	547.8	565.1
55°	222.2	244.5	290.1	336.8	380.4	420.0	453.5	482.9	507.2	526.5	539.7
57.5°	205.9	230.3	277.0	323.6	366.2	403.8	437.2	464.6	487.0	503.2	514.3
60°	190.7	216.1	263.8	309.4	352.0	389.6	421.0	447.4	466.7	480.9	490.0
62.5°	174.5	201.9	249.6	295.2	336.8	374.3	403.8	428.1	446.4	457.5	463.6
65°	158.3	187.7	235.4	281.0	321.6	357.1	385.5	407.8	424.1	434.2	439.3
67.5°	143.0	173.5	221.2	265.8	305.4	338.8	366.2	387.5	401.7	409.9	411.9
70°	126.8	158.3	205.9	249.6	288.1	319.6	345.9	364.2	377.4	383.5	385.5
72.5°	111.6	143.0	189.7	232.3	268.8	298.3	323.6	341.9	353.0	357.1	357.1
75°	95.4	126.8	172.5	213.0	246.5	275.9	299.3	315.5	325.7	330.7	328.7
77.5°	79.1	110.6	154.2	191.7	222.2	248.5	271.9	287.1	297.2	300.3	298.3
80°	65.9	94.3	132.9	167.4	195.8	220.1	241.4	256.7	265.8	263.8	258.7
82.5°	50.7	77.1	110.6	140.0	165.4	188.7	209.0	221.2	223.2	219.1	213.0
85°	36.5	56.8	84.2	107.5	129.9	147.1	161.3	169.4	169.4	164.3	160.3
87.5°	21.3	33.5	48.7	64.9	75.1	86.2	97.4	99.4	99.4	99.4	94.3
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°	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6
2.5°	471.7	472.8	473.8	474.8	475.8	475.8	475.8	474.8
5°	504.2	510.3	515.4	521.4	523.5	525.5	527.5	529.6
7.5°	555.9	564.1	572.2	580.3	585.4	591.4	589.4	589.4
10°	605.6	620.9	630.0	640.1	645.2	651.3	654.3	653.3
12.5°	654.3	671.6	684.8	693.9	702.0	708.1	710.1	713.2
15°	695.9	713.2	729.4	740.6	750.7	756.8	760.9	762.9
17.5°	730.4	747.7	765.9	780.1	789.3	797.4	799.4	801.4
20°	755.8	778.1	795.4	810.6	820.7	828.8	832.9	833.9
22.5°	776.1	797.4	816.7	831.9	843.0	852.2	856.2	856.2
25°	787.2	809.6	829.8	846.1	857.2	865.4	869.4	869.4
27.5°	791.3	814.6	833.9	850.1	862.3	870.4	873.5	874.5
30°	788.3	811.6	830.9	846.1	858.3	865.4	868.4	869.4
32.5°	778.1	801.4	819.7	833.9	845.1	853.2	856.2	856.2
35°	761.9	783.2	801.4	815.6	825.8	831.9	835.9	835.9
37.5°	740.6	761.9	778.1	790.3	799.4	806.5	808.5	808.5
40°	716.2	734.5	749.7	761.9	770.0	775.1	777.1	776.1
42.5°	688.8	706.1	718.3	728.4	735.5	740.6	743.6	745.6
45°	660.4	676.7	687.8	695.9	701.0	704.1	707.1	706.1
47.5°	635.1	645.2	655.4	661.4	666.5	669.6	670.6	670.6
50°	605.6	614.8	622.9	628.0	631.0	633.0	633.0	635.1
52.5°	576.2	584.3	590.4	595.5	597.5	598.5	599.6	598.5
55°	549.9	554.9	559.0	563.0	565.1	566.1	568.1	566.1
57.5°	522.5	526.5	531.6	532.6	534.6	534.6	535.6	534.6
60°	495.1	498.1	500.1	501.2	504.2	505.2	505.2	507.2
62.5°	467.7	468.7	471.7	472.8	473.8	475.8	477.8	476.8
65°	440.3	441.3	442.3	444.3	446.4	448.4	448.4	447.4
67.5°	411.9	412.9	413.9	415.9	418.0	418.0	419.0	419.0
70°	384.5	384.5	385.5	386.5	388.5	389.6	390.6	389.6
72.5°	356.1	356.1	356.1	357.1	358.1	360.1	361.2	361.2
75°	326.7	326.7	326.7	325.7	326.7	328.7	327.7	327.7
77.5°	294.2	291.2	288.1	286.1	287.1	286.1	286.1	286.1
80°	253.6	248.5	244.5	242.5	241.4	242.5	241.4	241.4
82.5°	209.0	203.9	199.9	196.8	197.8	195.8	196.8	194.8
85°	155.2	151.2	147.1	145.1	146.1	146.1	145.1	142.0
87.5°	91.3	86.2	85.2	84.2	85.2	84.2	81.2	82.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)