

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: P188543

Luminaire Tested: **24SR-LD2-53-C-UNV-L835-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188543
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-LD2-53-C-UNV-L835-CD1-PG-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3274.0 lumens
Efficiency: N/A
Efficacy: 76.0 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

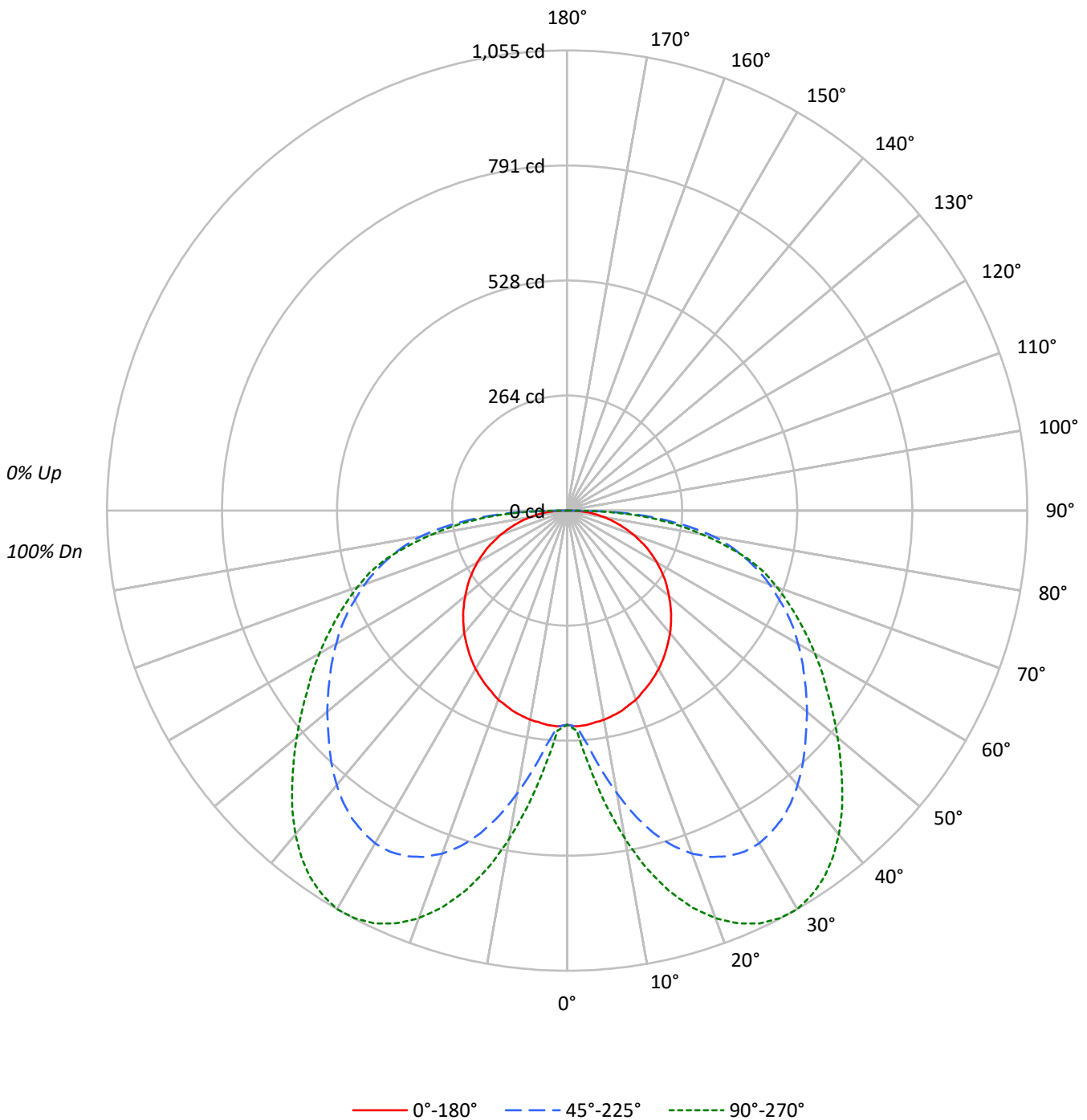
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	661	661	661
5°	667	727	796
10°	665	900	1043
15°	663	1066	1257
20°	661	1198	1424
25°	655	1298	1550
30°	652	1369	1639
35°	647	1414	1687
40°	645	1443	1702
45°	642	1466	1697
50°	638	1503	1695
55°	639	1557	1709
60°	639	1645	1765
65°	640	1770	1856
70°	637	1943	2012
75°	638	2203	2237
80°	659	2645	2436
85°	770	3291	2958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	1.7
10°-20°	206.6	6.3
20°-30°	376.0	11.5
30°-40°	498.8	15.2
40°-50°	546.5	16.7
50°-60°	537.1	16.4
60°-70°	487.2	14.9
70°-80°	386.1	11.8
80°-90°	181.0	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°	637.3	19.5
0°-40°	1136.2	34.7
0°-60°	2219.7	67.8
0°-90°	3274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	491	491	491	491	491	
5°	494	497	538	576	590	47
15°	476	592	765	868	903	134
25°	441	652	874	999	1044	203
35°	394	638	861	983	1027	247
45°	337	573	770	864	892	260
55°	273	503	664	716	729	243
65°	201	434	556	572	583	198
75°	123	336	424	424	430	130
85°	50	181	213	192	192	51
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°	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2
2.5°	495.2	493.9	493.9	493.9	492.5	492.5	492.5	493.9	493.9	495.2	497.9
5°	493.9	492.5	492.5	492.5	495.2	499.3	507.4	516.8	527.6	538.4	550.5
7.5°	489.8	489.8	489.8	493.9	506.0	522.2	542.4	562.7	580.2	599.1	616.7
10°	487.1	487.1	489.8	503.3	527.6	554.6	581.6	608.6	632.9	658.5	682.8
12.5°	481.7	481.7	489.8	515.5	549.2	584.3	618.0	651.7	684.1	715.2	742.2
15°	476.3	476.3	493.9	530.3	570.8	612.6	653.1	692.2	730.0	765.1	796.1
17.5°	468.2	469.6	496.6	541.1	589.7	636.9	681.4	726.0	766.4	805.6	838.0
20°	461.5	464.2	499.3	550.5	604.5	657.1	707.1	752.9	796.1	836.6	871.7
22.5°	450.7	456.1	500.6	557.3	615.3	672.0	723.3	771.8	817.7	859.5	894.6
25°	441.2	448.0	499.3	560.0	623.4	681.4	734.1	784.0	831.2	874.4	910.8
27.5°	430.4	441.2	497.9	561.3	626.1	685.5	739.5	790.7	838.0	881.1	918.9
30°	419.7	433.1	493.9	560.0	624.8	684.1	738.1	790.7	838.0	881.1	917.6
32.5°	407.5	422.4	485.8	553.2	619.4	677.4	731.4	782.6	831.2	873.0	909.5
35°	394.0	411.6	476.3	543.8	608.6	666.6	719.2	770.5	817.7	860.9	896.0
37.5°	380.5	400.8	465.5	533.0	596.4	653.1	704.4	755.6	801.5	843.4	877.1
40°	367.0	388.6	453.4	519.5	581.6	636.9	688.2	738.1	781.3	821.8	852.8
42.5°	352.2	376.5	439.9	504.7	564.0	618.0	669.3	717.9	759.7	797.5	827.2
45°	337.3	361.6	425.1	488.5	547.8	599.1	649.0	696.3	735.4	770.5	798.8
47.5°	321.1	348.1	411.6	472.3	529.0	581.6	630.2	673.3	712.5	743.5	770.5
50°	305.0	333.3	395.4	456.1	511.4	562.7	609.9	651.7	688.2	717.9	740.8
52.5°	288.8	318.5	380.5	439.9	495.2	545.1	591.0	630.2	663.9	690.9	713.8
55°	272.6	303.6	365.7	423.7	479.0	527.6	572.1	608.6	641.0	663.9	682.8
57.5°	255.0	288.8	350.8	408.9	462.8	511.4	553.2	588.3	618.0	638.3	654.4
60°	237.5	272.6	334.6	394.0	446.6	493.9	534.3	568.1	593.7	611.3	626.1
62.5°	218.6	256.4	319.8	377.8	430.4	476.3	514.1	543.8	569.4	585.6	593.7
65°	201.1	240.2	303.6	361.6	412.9	456.1	492.5	520.9	542.4	555.9	562.7
67.5°	180.8	222.6	286.1	344.1	392.7	434.5	468.2	495.2	514.1	523.6	529.0
70°	161.9	205.1	267.2	323.8	369.7	410.2	442.6	468.2	484.4	493.9	495.2
72.5°	141.7	186.2	248.3	302.3	346.8	384.6	415.6	438.5	452.0	460.1	461.5
75°	122.8	166.0	225.3	276.6	318.5	353.5	383.2	404.8	418.3	423.7	423.7
77.5°	103.9	144.4	201.1	249.6	288.8	321.1	348.1	369.7	380.5	385.9	385.9
80°	85.0	124.1	175.4	219.9	255.0	284.7	311.7	330.6	341.4	341.4	333.3
82.5°	67.5	101.2	145.7	186.2	215.9	242.9	268.5	280.7	283.4	280.7	273.9
85°	49.9	76.9	113.3	144.4	171.4	190.3	206.5	214.5	215.9	213.2	207.8
87.5°	28.3	44.5	64.8	85.0	102.6	112.0	125.5	128.2	128.2	132.2	125.5
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°	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2
2.5°	499.3	500.6	500.6	504.7	504.7	506.0	504.7	504.7
5°	558.6	564.0	572.1	580.2	582.9	588.3	587.0	589.7
7.5°	630.2	641.0	653.1	663.9	669.3	674.7	676.0	680.1
10°	701.7	715.2	730.0	744.9	752.9	757.0	762.4	763.7
12.5°	763.7	784.0	798.8	815.0	825.8	831.2	836.6	839.3
15°	820.4	840.7	859.5	877.1	887.9	896.0	901.4	902.7
17.5°	863.6	886.5	906.8	925.7	936.5	945.9	951.3	954.0
20°	897.3	923.0	943.2	962.1	974.2	985.0	993.1	994.5
22.5°	921.6	947.3	970.2	989.1	1003.9	1014.7	1021.5	1024.2
25°	939.2	966.1	989.1	1008.0	1022.8	1035.0	1041.7	1044.4
27.5°	947.3	975.6	999.9	1017.4	1032.3	1044.4	1052.5	1053.9
30°	948.6	975.6	999.9	1018.8	1033.6	1045.8	1052.5	1055.2
32.5°	939.2	967.5	991.8	1009.3	1024.2	1036.3	1043.1	1044.4
35°	925.7	951.3	974.2	991.8	1006.6	1017.4	1024.2	1026.9
37.5°	905.4	929.7	951.3	967.5	981.0	991.8	998.5	1001.2
40°	881.1	904.1	924.3	939.2	951.3	960.8	966.1	968.8
42.5°	852.8	874.4	893.3	905.4	917.6	925.7	929.7	932.4
45°	823.1	843.4	858.2	869.0	879.8	886.5	890.6	891.9
47.5°	792.1	809.6	821.8	831.2	839.3	846.1	850.1	850.1
50°	761.0	775.9	785.3	794.8	801.5	805.6	808.3	809.6
52.5°	730.0	742.2	748.9	757.0	762.4	766.4	769.1	769.1
55°	697.6	707.1	712.5	719.2	724.6	727.3	730.0	728.7
57.5°	666.6	673.3	677.4	682.8	686.8	689.5	692.2	693.6
60°	634.2	639.6	641.0	646.3	650.4	653.1	654.4	655.8
62.5°	600.5	604.5	607.2	609.9	614.0	616.7	618.0	619.4
65°	566.7	569.4	569.4	574.8	578.9	580.2	581.6	582.9
67.5°	531.7	533.0	534.3	538.4	542.4	543.8	546.5	546.5
70°	496.6	496.6	497.9	502.0	506.0	507.4	510.1	511.4
72.5°	460.1	461.5	461.5	465.5	469.6	472.3	473.6	475.0
75°	422.4	422.4	423.7	425.1	426.4	427.7	427.7	430.4
77.5°	381.9	376.5	373.8	371.1	372.4	372.4	371.1	372.4
80°	325.2	318.5	314.4	313.1	314.4	313.1	313.1	314.4
82.5°	267.2	259.1	256.4	255.0	255.0	255.0	253.7	256.4
85°	201.1	195.7	193.0	190.3	191.6	191.6	190.3	191.6
87.5°	121.4	118.7	116.0	113.3	114.7	113.3	112.0	116.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)