

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: P188552

Luminaire Tested: **24SR-LD2-64-C-UNV-L830-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188552
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-LD2-64-C-UNV-L830-CD1-PG-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3869.0 lumens
Efficiency: N/A
Efficacy: 69.7 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

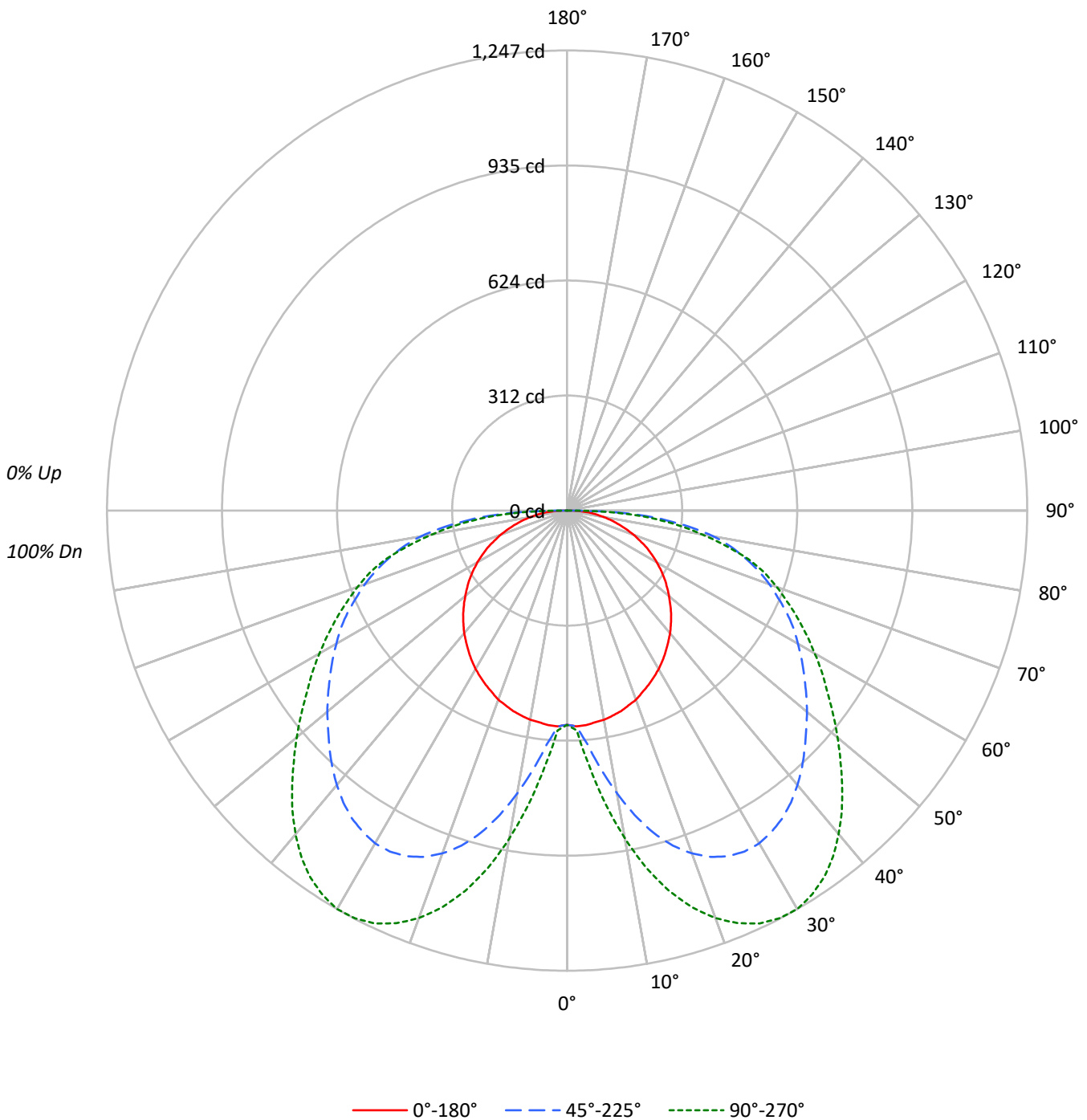
Input Watts (W): 55.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	781	781	781
5°	788	859	941
10°	786	1063	1233
15°	784	1259	1486
20°	781	1416	1683
25°	774	1534	1832
30°	770	1618	1937
35°	765	1671	1993
40°	762	1706	2011
45°	758	1733	2006
50°	754	1776	2003
55°	756	1840	2020
60°	755	1944	2086
65°	756	2092	2193
70°	753	2296	2378
75°	754	2603	2645
80°	779	3126	2879
85°	911	3889	3495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	1.7
10°-20°	244.2	6.3
20°-30°	444.4	11.5
30°-40°	589.5	15.2
40°-50°	645.8	16.7
50°-60°	634.7	16.4
60°-70°	575.7	14.9
70°-80°	456.3	11.8
80°-90°	213.9	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°	753.2	19.5
0°-40°	1342.6	34.7
0°-60°	2623.1	67.8
0°-90°	3869.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3869.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	580	580	580	580	580	
5°	584	588	636	681	697	55
15°	563	699	904	1026	1067	159
25°	521	771	1033	1180	1234	240
35°	466	753	1017	1162	1214	292
45°	399	678	910	1021	1054	307
55°	322	595	784	846	861	288
65°	238	513	657	676	689	234
75°	145	397	501	502	509	153
85°	59	214	252	226	226	61
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°	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4
2.5°	585.2	583.6	583.6	583.6	582.0	582.0	582.0	583.6	583.6	585.2	588.4
5°	583.6	582.0	582.0	582.0	585.2	590.0	599.6	610.7	623.5	636.2	650.6
7.5°	578.8	578.8	578.8	583.6	598.0	617.1	641.0	664.9	685.7	708.0	728.7
10°	575.6	575.6	578.8	594.8	623.5	655.4	687.3	719.2	747.9	778.2	806.9
12.5°	569.3	569.3	578.8	609.1	649.0	690.5	730.3	770.2	808.5	845.1	877.0
15°	562.9	562.9	583.6	626.7	674.5	723.9	771.8	818.0	862.7	904.1	940.8
17.5°	553.3	554.9	586.8	639.4	696.8	752.6	805.3	857.9	905.7	952.0	990.2
20°	545.4	548.5	590.0	650.6	714.4	776.6	835.6	889.8	940.8	988.6	1030.1
22.5°	532.6	539.0	591.6	658.6	727.1	794.1	854.7	912.1	966.3	1015.8	1057.2
25°	521.4	529.4	590.0	661.8	736.7	805.3	867.5	926.5	982.3	1033.3	1076.4
27.5°	508.7	521.4	588.4	663.4	739.9	810.1	873.8	934.4	990.2	1041.3	1085.9
30°	495.9	511.9	583.6	661.8	738.3	808.5	872.2	934.4	990.2	1041.3	1084.3
32.5°	481.6	499.1	574.1	653.8	731.9	800.5	864.3	924.9	982.3	1031.7	1074.8
35°	465.6	486.4	562.9	642.6	719.2	787.7	849.9	910.5	966.3	1017.4	1058.8
37.5°	449.7	473.6	550.1	629.9	704.8	771.8	832.4	893.0	947.2	996.6	1036.5
40°	433.7	459.2	535.8	613.9	687.3	752.6	813.2	872.2	923.3	971.1	1007.8
42.5°	416.2	444.9	519.8	596.4	666.5	730.3	790.9	848.3	897.8	942.4	977.5
45°	398.6	427.4	502.3	577.2	647.4	708.0	767.0	822.8	869.1	910.5	944.0
47.5°	379.5	411.4	486.4	558.1	625.1	687.3	744.7	795.7	841.9	878.6	910.5
50°	360.4	393.9	467.2	539.0	604.4	664.9	720.8	770.2	813.2	848.3	875.4
52.5°	341.2	376.3	449.7	519.8	585.2	644.2	698.4	744.7	784.5	816.4	843.5
55°	322.1	358.8	432.1	500.7	566.1	623.5	676.1	719.2	757.4	784.5	806.9
57.5°	301.4	341.2	414.6	483.2	546.9	604.4	653.8	695.2	730.3	754.2	773.4
60°	280.6	322.1	395.5	465.6	527.8	583.6	631.5	671.3	701.6	722.4	739.9
62.5°	258.3	303.0	377.9	446.5	508.7	562.9	607.5	642.6	672.9	692.1	701.6
65°	237.6	283.8	358.8	427.4	487.9	539.0	582.0	615.5	641.0	657.0	664.9
67.5°	213.7	263.1	338.1	406.6	464.0	513.5	553.3	585.2	607.5	618.7	625.1
70°	191.4	242.4	315.7	382.7	436.9	484.8	523.0	553.3	572.5	583.6	585.2
72.5°	167.4	220.1	293.4	357.2	409.8	454.5	491.1	518.2	534.2	543.8	545.4
75°	145.1	196.1	266.3	326.9	376.3	417.8	452.9	478.4	494.3	500.7	500.7
77.5°	122.8	170.6	237.6	295.0	341.2	379.5	411.4	436.9	449.7	456.1	456.1
80°	100.5	146.7	207.3	259.9	301.4	336.5	368.4	390.7	403.4	403.4	393.9
82.5°	79.7	119.6	172.2	220.1	255.1	287.0	317.3	331.7	334.9	331.7	323.7
85°	59.0	90.9	133.9	170.6	202.5	224.8	244.0	253.5	255.1	251.9	245.6
87.5°	33.5	52.6	76.5	100.5	121.2	132.4	148.3	151.5	151.5	156.3	148.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P188552

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L830-CD1-PG-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4
2.5°	590.0	591.6	591.6	596.4	596.4	598.0	596.4	596.4
5°	660.2	666.5	676.1	685.7	688.9	695.2	693.6	696.8
7.5°	744.7	757.4	771.8	784.5	790.9	797.3	798.9	803.7
10°	829.2	845.1	862.7	880.2	889.8	894.6	900.9	902.5
12.5°	902.5	926.5	944.0	963.1	975.9	982.3	988.6	991.8
15°	969.5	993.4	1015.8	1036.5	1049.2	1058.8	1065.2	1066.8
17.5°	1020.5	1047.6	1071.6	1093.9	1106.6	1117.8	1124.2	1127.4
20°	1060.4	1090.7	1114.6	1136.9	1151.3	1164.1	1173.6	1175.2
22.5°	1089.1	1119.4	1146.5	1168.8	1186.4	1199.1	1207.1	1210.3
25°	1109.8	1141.7	1168.8	1191.2	1208.7	1223.1	1231.0	1234.2
27.5°	1119.4	1152.9	1181.6	1202.3	1219.9	1234.2	1243.8	1245.4
30°	1121.0	1152.9	1181.6	1203.9	1221.5	1235.8	1243.8	1247.0
32.5°	1109.8	1143.3	1172.0	1192.8	1210.3	1224.6	1232.6	1234.2
35°	1093.9	1124.2	1151.3	1172.0	1189.6	1202.3	1210.3	1213.5
37.5°	1070.0	1098.7	1124.2	1143.3	1159.3	1172.0	1180.0	1183.2
40°	1041.3	1068.4	1092.3	1109.8	1124.2	1135.4	1141.7	1144.9
42.5°	1007.8	1033.3	1055.6	1070.0	1084.3	1093.9	1098.7	1101.9
45°	972.7	996.6	1014.2	1026.9	1039.7	1047.6	1052.4	1054.0
47.5°	936.0	956.8	971.1	982.3	991.8	999.8	1004.6	1004.6
50°	899.4	916.9	928.1	939.2	947.2	952.0	955.2	956.8
52.5°	862.7	877.0	885.0	894.6	900.9	905.7	908.9	908.9
55°	824.4	835.6	841.9	849.9	856.3	859.5	862.7	861.1
57.5°	787.7	795.7	800.5	806.9	811.6	814.8	818.0	819.6
60°	749.5	755.8	757.4	763.8	768.6	771.8	773.4	775.0
62.5°	709.6	714.4	717.6	720.8	725.5	728.7	730.3	731.9
65°	669.7	672.9	672.9	679.3	684.1	685.7	687.3	688.9
67.5°	628.3	629.9	631.5	636.2	641.0	642.6	645.8	645.8
70°	586.8	586.8	588.4	593.2	598.0	599.6	602.8	604.4
72.5°	543.8	545.4	545.4	550.1	554.9	558.1	559.7	561.3
75°	499.1	499.1	500.7	502.3	503.9	505.5	505.5	508.7
77.5°	451.3	444.9	441.7	438.5	440.1	440.1	438.5	440.1
80°	384.3	376.3	371.5	369.9	371.5	369.9	369.9	371.5
82.5°	315.7	306.2	303.0	301.4	301.4	301.4	299.8	303.0
85°	237.6	231.2	228.0	224.8	226.4	226.4	224.8	226.4
87.5°	143.5	140.3	137.1	133.9	135.5	133.9	132.4	137.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)