

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: P188553

Luminaire Tested: **24SR-LD2-64-C-UNV-L835-CD1-PG-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188553  
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-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**

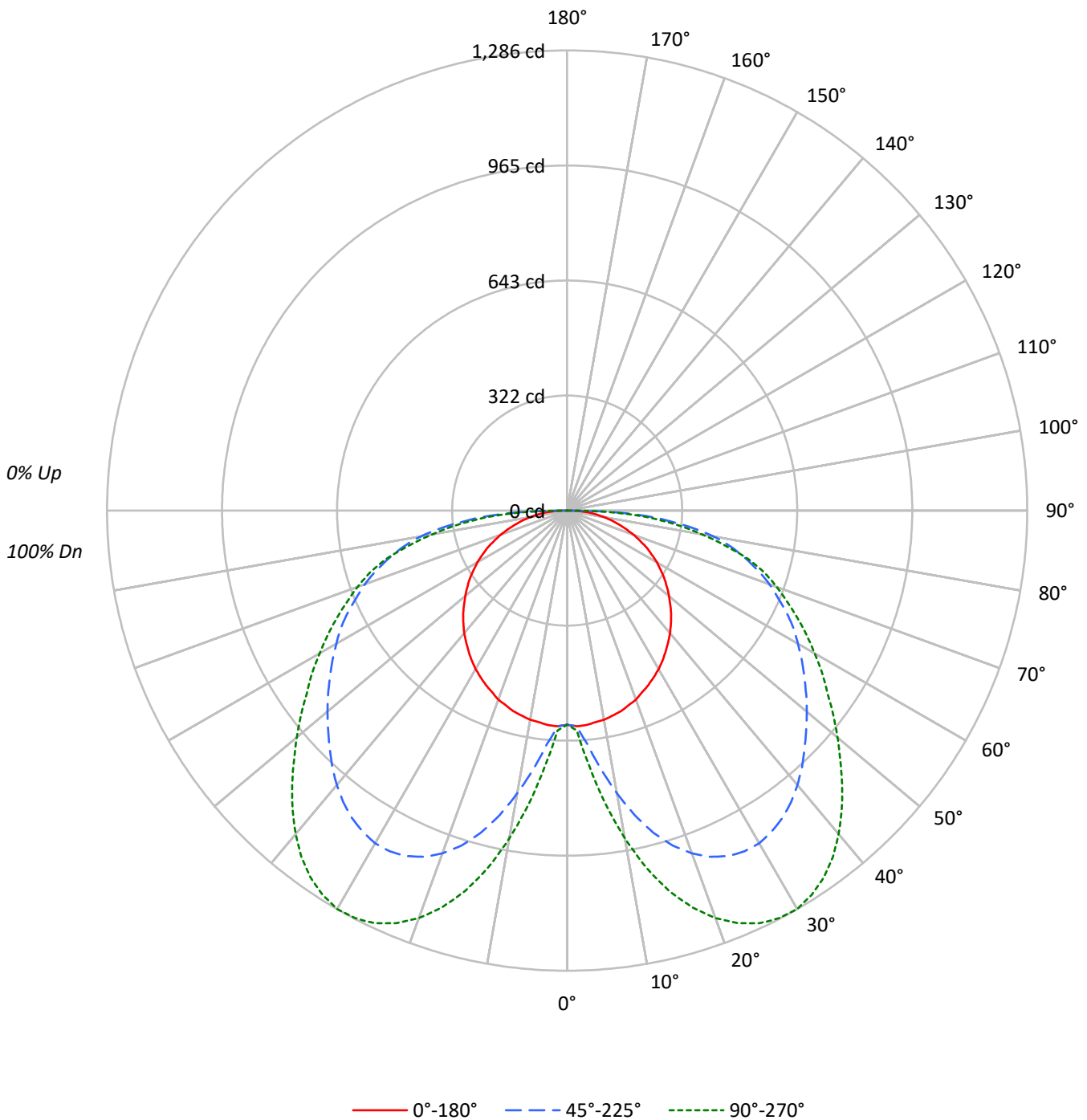
Lumens per Lamp: N/A  
Luminaire Lumens: 3989.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 2.25 / 2.05  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 55.5  
Input Voltage (V): NR  
Input Current (A<sub>in</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	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°	805	805	805
5°	813	886	970
10°	811	1096	1271
15°	808	1299	1532
20°	805	1459	1735
25°	798	1582	1889
30°	794	1668	1997
35°	789	1723	2055
40°	785	1759	2073
45°	782	1786	2068
50°	778	1831	2065
55°	779	1898	2083
60°	779	2004	2150
65°	780	2156	2261
70°	776	2367	2451
75°	778	2684	2727
80°	803	3223	2968
85°	939	4011	3605



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	1.7
10°-20°	251.8	6.3
20°-30°	458.1	11.5
30°-40°	607.7	15.2
40°-50°	665.8	16.7
50°-60°	654.4	16.4
60°-70°	593.6	14.9
70°-80°	470.4	11.8
80°-90°	220.5	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°	776.5	19.5
0°-40°	1384.3	34.7
0°-60°	2704.5	67.8
0°-90°	3989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3989.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	602	606	656	702	718	57
15°	580	721	932	1058	1100	164
25°	538	795	1065	1217	1272	248
35°	480	777	1049	1198	1251	301
45°	411	699	939	1052	1087	317
55°	332	613	809	872	888	297
65°	245	529	677	697	710	241
75°	150	409	516	517	524	158
85°	61	220	260	233	234	62
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°	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4
2.5°	603.4	601.7	601.7	601.7	600.1	600.1	600.1	601.7	601.7	603.4	606.7
5°	601.7	600.1	600.1	600.1	603.4	608.3	618.2	629.7	642.8	656.0	670.8
7.5°	596.8	596.8	596.8	601.7	616.5	636.2	660.9	685.6	706.9	730.0	751.3
10°	593.5	593.5	596.8	613.2	642.8	675.7	708.6	741.5	771.1	802.3	831.9
12.5°	586.9	586.9	596.8	628.0	669.1	711.9	753.0	794.1	833.5	871.3	904.2
15°	580.4	580.4	601.7	646.1	695.4	746.4	795.7	843.4	889.4	932.2	970.0
17.5°	570.5	572.1	605.0	659.3	718.5	776.0	830.2	884.5	933.8	981.5	1021.0
20°	562.3	565.6	608.3	670.8	736.5	800.7	861.5	917.4	970.0	1019.3	1062.1
22.5°	549.1	555.7	609.9	679.0	749.7	818.7	881.2	940.4	996.3	1047.3	1090.0
25°	537.6	545.8	608.3	682.3	759.6	830.2	894.4	955.2	1012.7	1065.3	1109.7
27.5°	524.5	537.6	606.7	683.9	762.8	835.2	900.9	963.4	1021.0	1073.6	1119.6
30°	511.3	527.7	601.7	682.3	761.2	833.5	899.3	963.4	1021.0	1073.6	1118.0
32.5°	496.5	514.6	591.9	674.1	754.6	825.3	891.1	953.6	1012.7	1063.7	1108.1
35°	480.1	501.4	580.4	662.6	741.5	812.2	876.3	938.8	996.3	1048.9	1091.7
37.5°	463.6	488.3	567.2	649.4	726.7	795.7	858.2	920.7	976.6	1027.5	1068.6
40°	447.2	473.5	552.4	633.0	708.6	776.0	838.5	899.3	951.9	1001.2	1039.0
42.5°	429.1	458.7	536.0	614.9	687.2	753.0	815.5	874.6	925.6	971.6	1007.8
45°	411.0	440.6	517.9	595.1	667.5	730.0	790.8	848.3	896.0	938.8	973.3
47.5°	391.3	424.2	501.4	575.4	644.5	708.6	767.8	820.4	868.1	905.9	938.8
50°	371.6	406.1	481.7	555.7	623.1	685.6	743.1	794.1	838.5	874.6	902.6
52.5°	351.8	388.0	463.6	536.0	603.4	664.2	720.1	767.8	808.9	841.8	869.7
55°	332.1	369.9	445.5	516.2	583.6	642.8	697.1	741.5	780.9	808.9	831.9
57.5°	310.7	351.8	427.5	498.1	563.9	623.1	674.1	716.8	753.0	777.6	797.4
60°	289.4	332.1	407.7	480.1	544.2	601.7	651.0	692.1	723.4	744.8	762.8
62.5°	266.3	312.4	389.6	460.3	524.5	580.4	626.4	662.6	693.8	713.5	723.4
65°	245.0	292.6	369.9	440.6	503.1	555.7	600.1	634.6	660.9	677.3	685.6
67.5°	220.3	271.3	348.5	419.2	478.4	529.4	570.5	603.4	626.4	637.9	644.5
70°	197.3	249.9	325.5	394.6	450.5	499.8	539.2	570.5	590.2	601.7	603.4
72.5°	172.6	226.9	302.5	368.3	422.5	468.6	506.4	534.3	550.8	560.6	562.3
75°	149.6	202.2	274.6	337.0	388.0	430.7	466.9	493.2	509.7	516.2	516.2
77.5°	126.6	175.9	245.0	304.1	351.8	391.3	424.2	450.5	463.6	470.2	470.2
80°	103.6	151.3	213.7	268.0	310.7	346.9	379.8	402.8	415.9	415.9	406.1
82.5°	82.2	123.3	177.6	226.9	263.0	295.9	327.2	342.0	345.3	342.0	333.7
85°	60.8	93.7	138.1	175.9	208.8	231.8	251.5	261.4	263.0	259.8	253.2
87.5°	34.5	54.3	78.9	103.6	124.9	136.5	152.9	156.2	156.2	161.1	152.9
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°	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4
2.5°	608.3	609.9	609.9	614.9	614.9	616.5	614.9	614.9
5°	680.6	687.2	697.1	706.9	710.2	716.8	715.2	718.5
7.5°	767.8	780.9	795.7	808.9	815.5	822.0	823.7	828.6
10°	854.9	871.3	889.4	907.5	917.4	922.3	928.9	930.5
12.5°	930.5	955.2	973.3	993.0	1006.2	1012.7	1019.3	1022.6
15°	999.6	1024.2	1047.3	1068.6	1081.8	1091.7	1098.2	1099.9
17.5°	1052.2	1080.1	1104.8	1127.8	1141.0	1152.5	1159.1	1162.3
20°	1093.3	1124.5	1149.2	1172.2	1187.0	1200.2	1210.0	1211.7
22.5°	1122.9	1154.1	1182.1	1205.1	1223.2	1236.3	1244.5	1247.8
25°	1144.3	1177.1	1205.1	1228.1	1246.2	1261.0	1269.2	1272.5
27.5°	1154.1	1188.7	1218.2	1239.6	1257.7	1272.5	1282.4	1284.0
30°	1155.8	1188.7	1218.2	1241.3	1259.3	1274.1	1282.4	1285.6
32.5°	1144.3	1178.8	1208.4	1229.8	1247.8	1262.6	1270.9	1272.5
35°	1127.8	1159.1	1187.0	1208.4	1226.5	1239.6	1247.8	1251.1
37.5°	1103.2	1132.8	1159.1	1178.8	1195.2	1208.4	1216.6	1219.9
40°	1073.6	1101.5	1126.2	1144.3	1159.1	1170.6	1177.1	1180.4
42.5°	1039.0	1065.3	1088.4	1103.2	1118.0	1127.8	1132.8	1136.0
45°	1002.9	1027.5	1045.6	1058.8	1071.9	1080.1	1085.1	1086.7
47.5°	965.1	986.4	1001.2	1012.7	1022.6	1030.8	1035.8	1035.8
50°	927.2	945.3	956.8	968.3	976.6	981.5	984.8	986.4
52.5°	889.4	904.2	912.4	922.3	928.9	933.8	937.1	937.1
55°	850.0	861.5	868.1	876.3	882.9	886.1	889.4	887.8
57.5°	812.2	820.4	825.3	831.9	836.8	840.1	843.4	845.0
60°	772.7	779.3	780.9	787.5	792.4	795.7	797.4	799.0
62.5°	731.6	736.5	739.8	743.1	748.0	751.3	753.0	754.6
65°	690.5	693.8	693.8	700.4	705.3	706.9	708.6	710.2
67.5°	647.8	649.4	651.0	656.0	660.9	662.6	665.8	665.8
70°	605.0	605.0	606.7	611.6	616.5	618.2	621.5	623.1
72.5°	560.6	562.3	562.3	567.2	572.1	575.4	577.1	578.7
75°	514.6	514.6	516.2	517.9	519.5	521.2	521.2	524.5
77.5°	465.3	458.7	455.4	452.1	453.8	453.8	452.1	453.8
80°	396.2	388.0	383.1	381.4	383.1	381.4	381.4	383.1
82.5°	325.5	315.7	312.4	310.7	310.7	310.7	309.1	312.4
85°	245.0	238.4	235.1	231.8	233.5	233.5	231.8	233.5
87.5°	148.0	144.7	141.4	138.1	139.7	138.1	136.5	141.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)