

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: P188513

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24779)  
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-MR-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH MEDIUM RED SKYTRIM.  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

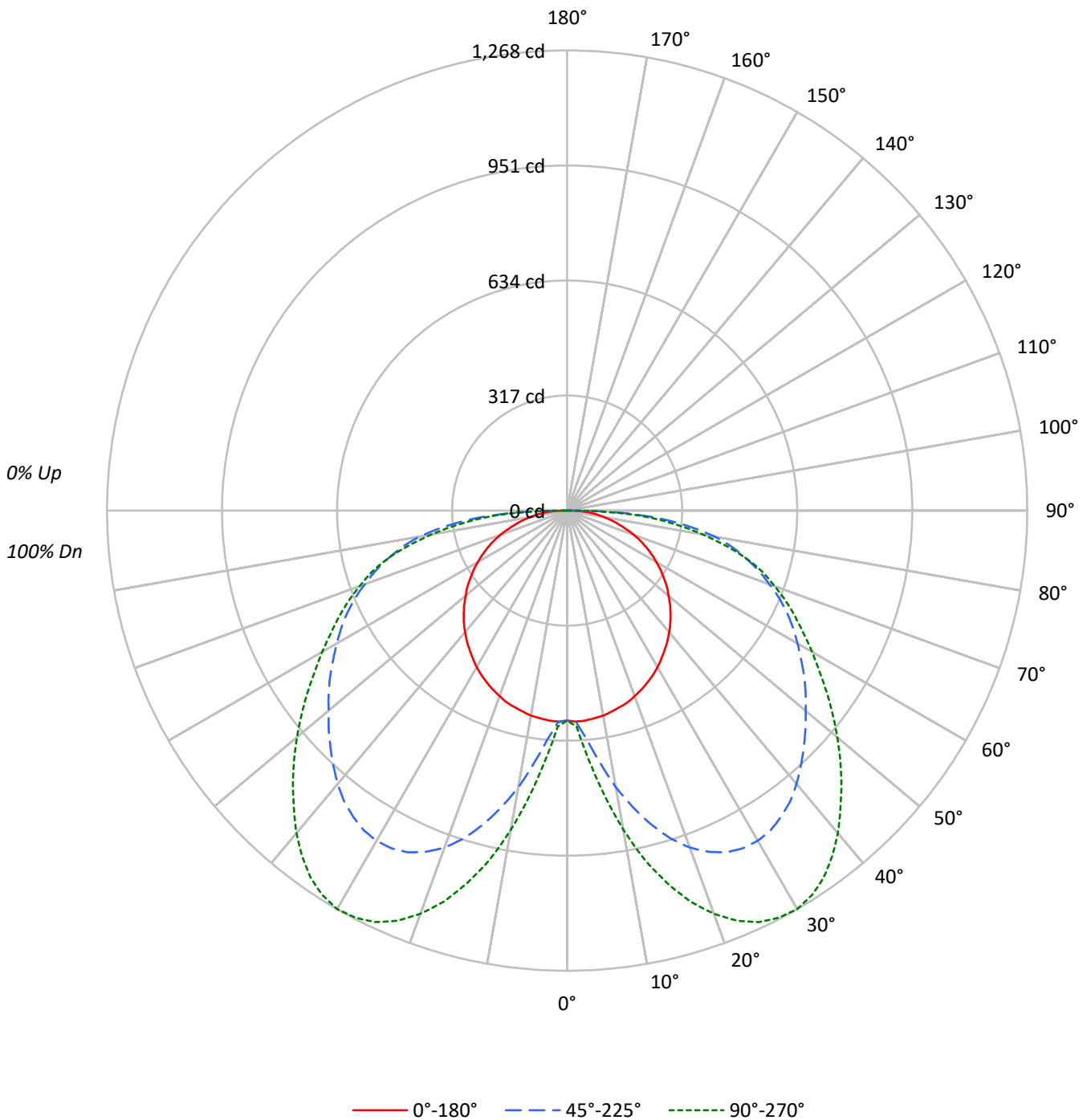
Lumens per Lamp: N/A  
Luminaire Lumens: 3915.0 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 2.27 / 2.06  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 55.5  
Input Voltage (V): NR  
Input Current (A<sub>in</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	85	89	86	83	86	83	80	78
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	64	62
3	85	73	64	56	83	72	63	56	69	61	55	66	59	54	63	58	53	50
4	78	64	54	47	75	63	53	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	55	46	39	53	45	39	51	44	38	49	43	38	35
6	65	50	41	34	63	49	40	33	48	39	33	46	38	33	44	38	32	30
7	60	45	36	29	58	45	35	29	43	35	29	41	34	29	40	33	28	26
8	56	41	32	26	54	40	32	26	39	31	25	38	30	25	36	30	25	23
9	52	38	29	23	50	37	28	23	36	28	23	35	27	22	33	27	22	20
10	48	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°	779	779	779
5°	784	857	933
10°	784	1058	1220
15°	781	1248	1479
20°	779	1415	1693
25°	776	1543	1858
30°	774	1632	1969
35°	770	1691	2025
40°	768	1727	2039
45°	766	1755	2034
50°	764	1796	2034
55°	764	1871	2048
60°	765	1973	2097
65°	770	2131	2209
70°	769	2335	2393
75°	769	2658	2667
80°	803	3198	2943
85°	939	4011	3629



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.2	1.6
10°-20°	243.3	6.2
20°-30°	447.5	11.4
30°-40°	596.5	15.2
40°-50°	653.5	16.7
50°-60°	642.6	16.4
60°-70°	583.1	14.9
70°-80°	464.2	11.9
80°-90°	220.1	5.6
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°	754.9	19.3
0°-40°	1351.5	34.5
0°-60°	2647.6	67.6
0°-90°	3915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3915.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	580	585	635	676	690	55
15°	561	695	896	1021	1062	158
25°	523	769	1039	1194	1251	241
35°	469	757	1029	1181	1233	294
45°	403	682	922	1034	1069	311
55°	326	603	797	857	873	292
65°	242	521	669	683	694	239
75°	148	407	511	508	513	157
85°	61	220	260	235	235	63
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°	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7
2.5°	582.0	582.0	580.4	580.4	580.4	578.7	578.7	580.4	582.0	583.7	585.3
5°	580.4	580.4	580.4	580.4	582.0	588.6	596.8	608.3	618.2	634.6	642.8
7.5°	577.1	577.1	578.7	583.7	596.8	614.9	636.3	660.9	680.7	702.0	721.8
10°	573.8	573.8	577.1	593.5	619.8	651.1	682.3	713.5	741.5	774.4	799.0
12.5°	567.2	567.2	577.1	606.7	646.1	685.6	725.1	766.2	802.3	836.9	871.4
15°	560.6	560.6	580.4	621.5	670.8	718.5	764.5	812.2	854.9	896.0	932.2
17.5°	554.1	555.7	585.3	637.9	692.2	748.1	802.3	853.3	901.0	947.0	988.1
20°	544.2	547.5	588.6	649.4	710.3	772.7	830.3	886.2	938.8	988.1	1030.9
22.5°	534.3	540.9	590.2	657.6	725.1	792.5	853.3	910.8	966.7	1017.7	1062.1
25°	522.8	531.0	591.9	662.6	734.9	804.0	868.1	928.9	986.5	1039.1	1083.5
27.5°	511.3	522.8	588.6	662.6	738.2	810.5	874.7	937.1	998.0	1048.9	1096.6
30°	498.2	513.0	583.7	660.9	738.2	808.9	874.7	938.8	998.0	1050.6	1096.6
32.5°	483.4	503.1	575.4	654.4	731.6	804.0	869.7	932.2	991.4	1044.0	1088.4
35°	468.6	489.9	565.6	644.5	721.8	792.5	856.6	919.1	976.6	1029.2	1073.6
37.5°	453.8	478.4	554.1	633.0	707.0	776.0	840.1	902.6	958.5	1009.5	1050.6
40°	437.3	463.6	539.3	616.5	690.5	756.3	820.4	879.6	933.9	983.2	1022.6
42.5°	420.9	448.8	522.8	600.1	670.8	736.6	799.0	856.6	909.2	953.6	989.8
45°	402.8	432.4	506.4	580.4	649.4	715.2	776.0	830.3	881.2	922.3	955.2
47.5°	384.7	416.0	488.3	562.3	629.7	693.8	753.0	805.6	851.7	891.1	922.3
50°	365.0	397.9	470.2	542.6	610.0	672.4	730.0	779.3	823.7	858.2	887.8
52.5°	346.9	381.4	452.1	524.5	590.2	652.7	708.6	754.6	795.8	828.6	853.3
55°	325.5	363.3	435.7	506.4	572.2	633.0	685.6	730.0	767.8	797.4	818.8
57.5°	305.8	345.3	417.6	488.3	552.4	613.3	662.6	705.3	738.2	764.5	784.2
60°	284.4	327.2	399.5	470.2	534.3	593.5	641.2	680.7	711.9	733.3	749.7
62.5°	263.1	307.4	383.1	452.1	514.6	570.5	616.5	652.7	680.7	702.0	711.9
65°	241.7	287.7	363.3	434.0	494.9	547.5	591.9	626.4	651.1	669.2	675.7
67.5°	218.7	268.0	343.6	411.0	471.9	522.8	563.9	596.8	618.2	633.0	636.3
70°	195.6	245.0	320.6	388.0	445.6	493.2	534.3	562.3	583.7	593.5	596.8
72.5°	171.0	222.0	297.6	361.7	416.0	463.6	499.8	529.4	547.5	554.1	554.1
75°	148.0	197.3	271.3	332.1	384.7	429.1	463.6	489.9	506.4	511.3	509.7
77.5°	125.0	174.3	243.3	300.9	348.6	389.7	422.5	447.2	462.0	466.9	465.3
80°	103.6	149.6	210.4	264.7	307.4	345.3	374.9	401.2	414.3	412.7	402.8
82.5°	82.2	121.7	175.9	223.6	261.4	295.9	325.5	342.0	346.9	342.0	332.1
85°	60.8	92.1	136.5	174.3	205.5	233.5	251.5	263.1	264.7	259.8	251.5
87.5°	36.2	54.3	80.6	103.6	126.6	139.7	149.6	157.8	159.5	154.5	151.3
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°	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7
2.5°	586.9	588.6	590.2	593.5	591.9	593.5	593.5	595.2
5°	654.4	664.2	670.8	680.7	680.7	685.6	687.2	690.5
7.5°	736.6	749.7	764.5	779.3	781.0	789.2	792.5	792.5
10°	820.4	838.5	856.6	873.0	878.0	887.8	892.8	892.8
12.5°	896.0	915.8	940.4	958.5	965.1	976.6	983.2	984.8
15°	961.8	986.5	1011.1	1030.9	1042.4	1053.9	1060.5	1062.1
17.5°	1017.7	1047.3	1073.6	1093.3	1106.5	1119.6	1127.9	1129.5
20°	1062.1	1095.0	1121.3	1142.7	1157.5	1173.9	1180.5	1182.1
22.5°	1096.6	1127.9	1157.5	1180.5	1196.9	1213.4	1221.6	1223.2
25°	1119.6	1152.5	1182.1	1206.8	1224.9	1239.7	1247.9	1251.2
27.5°	1132.8	1167.3	1196.9	1219.9	1238.0	1254.5	1262.7	1264.3
30°	1134.4	1169.0	1198.6	1221.6	1239.7	1256.1	1264.3	1267.6
32.5°	1126.2	1160.7	1188.7	1211.7	1229.8	1244.6	1252.8	1256.1
35°	1109.8	1142.7	1170.6	1192.0	1208.4	1221.6	1231.4	1233.1
37.5°	1086.8	1118.0	1142.7	1162.4	1178.8	1192.0	1200.2	1200.2
40°	1055.5	1085.1	1106.5	1124.6	1141.0	1150.9	1160.7	1160.7
42.5°	1021.0	1048.9	1068.7	1085.1	1096.6	1108.1	1114.7	1114.7
45°	984.8	1007.8	1027.6	1040.7	1052.2	1060.5	1068.7	1068.7
47.5°	948.7	968.4	983.2	996.3	1006.2	1014.4	1021.0	1021.0
50°	910.8	928.9	940.4	951.9	960.2	966.7	971.7	971.7
52.5°	873.0	887.8	896.0	905.9	912.5	919.1	922.3	922.3
55°	836.9	846.7	853.3	861.5	866.4	869.7	873.0	873.0
57.5°	797.4	804.0	810.5	815.5	818.8	822.1	825.3	823.7
60°	757.9	762.9	767.8	771.1	774.4	777.7	779.3	779.3
62.5°	718.5	720.1	721.8	728.3	731.6	733.3	734.9	734.9
65°	679.0	679.0	680.7	685.6	688.9	692.2	693.8	693.8
67.5°	636.3	637.9	639.6	644.5	646.1	649.4	652.7	652.7
70°	593.5	595.2	595.2	600.1	601.7	605.0	608.3	608.3
72.5°	552.4	552.4	552.4	555.7	559.0	562.3	565.6	565.6
75°	506.4	506.4	506.4	509.7	509.7	511.3	514.6	513.0
77.5°	457.1	452.1	447.2	445.6	445.6	447.2	448.8	448.8
80°	392.9	386.4	383.1	379.8	378.1	379.8	381.4	379.8
82.5°	325.5	317.3	312.4	310.7	310.7	310.7	312.4	309.1
85°	246.6	238.4	235.1	235.1	233.5	233.5	233.5	235.1
87.5°	148.0	143.0	138.1	139.7	138.1	136.5	138.1	141.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)