

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: P188555

Luminaire Tested: **24SR-LD2-64-C-UNV-L850-CD1-PG-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188555  
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-L850-CD1-PG-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

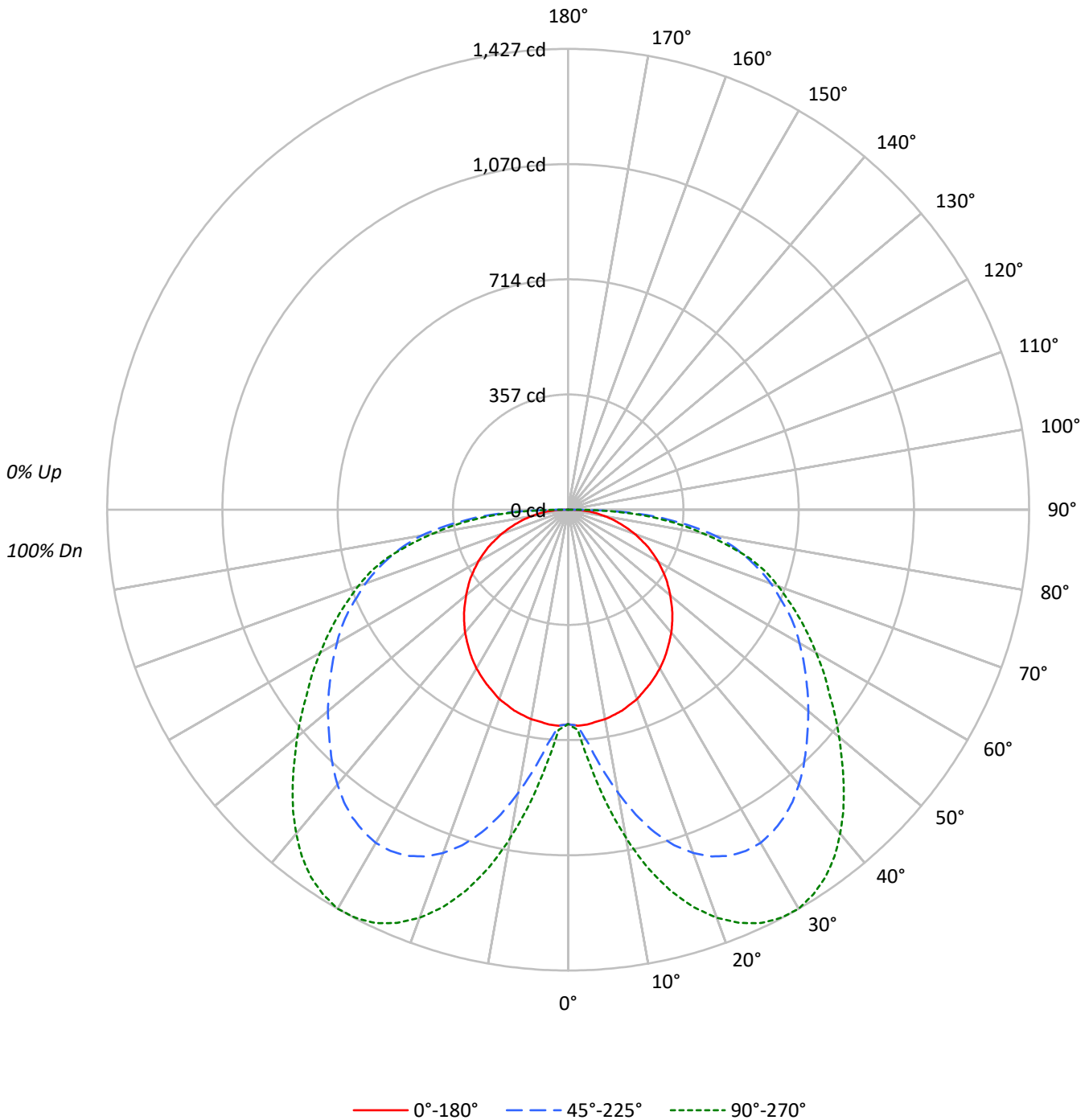
Lumens per Lamp: N/A  
Luminaire Lumens: 4427.0 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 2.25 / 2.05  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 55.5  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	894	894	894
5°	902	983	1077
10°	900	1217	1411
15°	897	1441	1700
20°	893	1620	1925
25°	886	1755	2097
30°	882	1851	2217
35°	875	1912	2281
40°	872	1952	2301
45°	868	1982	2295
50°	863	2032	2291
55°	865	2106	2311
60°	864	2224	2386
65°	866	2393	2509
70°	861	2627	2720
75°	863	2978	3026
80°	890	3577	3294
85°	1042	4451	4000



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	1.7
10°-20°	279.4	6.3
20°-30°	508.4	11.5
30°-40°	674.5	15.2
40°-50°	738.9	16.7
50°-60°	726.3	16.4
60°-70°	658.8	14.9
70°-80°	522.1	11.8
80°-90°	244.7	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°	861.8	19.5
0°-40°	1536.3	34.7
0°-60°	3001.4	67.8
0°-90°	4427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4427.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	668	672	728	779	797	63
15°	644	800	1034	1174	1221	182
25°	597	882	1182	1350	1412	275
35°	533	862	1164	1329	1388	334
45°	456	775	1042	1168	1206	352
55°	369	681	898	968	985	329
65°	272	588	752	774	788	268
75°	166	454	573	574	582	175
85°	68	244	288	259	259	69
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°	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1
2.5°	669.6	667.8	667.8	667.8	666.0	666.0	666.0	667.8	667.8	669.6	673.3
5°	667.8	666.0	666.0	666.0	669.6	675.1	686.0	698.8	713.4	728.0	744.4
7.5°	662.3	662.3	662.3	667.8	684.2	706.1	733.5	760.8	784.6	810.1	833.8
10°	658.7	658.7	662.3	680.6	713.4	749.9	786.4	822.9	855.7	890.4	923.2
12.5°	651.4	651.4	662.3	697.0	742.6	790.0	835.7	881.3	925.1	967.0	1003.5
15°	644.1	644.1	667.8	717.1	771.8	828.4	883.1	936.0	987.1	1034.5	1076.5
17.5°	633.1	635.0	671.4	731.7	797.3	861.2	921.4	981.6	1036.4	1089.3	1133.1
20°	624.0	627.7	675.1	744.4	817.4	888.6	956.1	1018.1	1076.5	1131.2	1178.7
22.5°	609.4	616.7	676.9	753.5	832.0	908.6	978.0	1043.7	1105.7	1162.3	1209.7
25°	596.6	605.8	675.1	757.2	843.0	921.4	992.6	1060.1	1123.9	1182.3	1231.6
27.5°	582.0	596.6	673.3	759.0	846.6	926.9	999.9	1069.2	1133.1	1191.4	1242.5
30°	567.4	585.7	667.8	757.2	844.8	925.1	998.0	1069.2	1133.1	1191.4	1240.7
32.5°	551.0	571.1	656.8	748.1	837.5	915.9	988.9	1058.3	1123.9	1180.5	1229.8
35°	532.8	556.5	644.1	735.3	822.9	901.3	972.5	1041.8	1105.7	1164.1	1211.5
37.5°	514.5	541.9	629.5	720.7	806.5	883.1	952.4	1021.8	1083.8	1140.4	1186.0
40°	496.3	525.5	613.1	702.5	786.4	861.2	930.5	998.0	1056.4	1111.2	1153.1
42.5°	476.2	509.1	594.8	682.4	762.7	835.7	905.0	970.7	1027.2	1078.3	1118.5
45°	456.1	489.0	574.7	660.5	740.8	810.1	877.6	941.5	994.4	1041.8	1080.1
47.5°	434.2	470.7	556.5	638.6	715.2	786.4	852.1	910.5	963.4	1005.3	1041.8
50°	412.4	450.7	534.6	616.7	691.5	760.8	824.7	881.3	930.5	970.7	1001.7
52.5°	390.5	430.6	514.5	594.8	669.6	737.1	799.2	852.1	897.7	934.2	965.2
55°	368.6	410.5	494.5	572.9	647.7	713.4	773.6	822.9	866.7	897.7	923.2
57.5°	344.8	390.5	474.4	552.8	625.8	691.5	748.1	795.5	835.7	863.0	884.9
60°	321.1	368.6	452.5	532.8	603.9	667.8	722.5	768.1	802.8	826.5	846.6
62.5°	295.6	346.7	432.4	510.9	582.0	644.1	695.2	735.3	770.0	791.9	802.8
65°	271.9	324.8	410.5	489.0	558.3	616.7	666.0	704.3	733.5	751.7	760.8
67.5°	244.5	301.1	386.8	465.3	531.0	587.5	633.1	669.6	695.2	707.9	715.2
70°	218.9	277.3	361.3	437.9	499.9	554.7	598.5	633.1	655.0	667.8	669.6
72.5°	191.6	251.8	335.7	408.7	468.9	520.0	562.0	593.0	611.2	622.2	624.0
75°	166.0	224.4	304.7	374.0	430.6	478.0	518.2	547.4	565.6	572.9	572.9
77.5°	140.5	195.2	271.9	337.5	390.5	434.2	470.7	499.9	514.5	521.8	521.8
80°	114.9	167.9	237.2	297.4	344.8	385.0	421.5	447.0	461.6	461.6	450.7
82.5°	91.2	136.8	197.1	251.8	291.9	328.4	363.1	379.5	383.2	379.5	370.4
85°	67.5	104.0	153.3	195.2	231.7	257.3	279.2	290.1	291.9	288.3	281.0
87.5°	38.3	60.2	87.6	114.9	138.7	151.4	169.7	173.3	173.3	178.8	169.7
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°	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1
2.5°	675.1	676.9	676.9	682.4	682.4	684.2	682.4	682.4
5°	755.4	762.7	773.6	784.6	788.2	795.5	793.7	797.3
7.5°	852.1	866.7	883.1	897.7	905.0	912.3	914.1	919.6
10°	948.8	967.0	987.1	1007.2	1018.1	1023.6	1030.9	1032.7
12.5°	1032.7	1060.1	1080.1	1102.0	1116.6	1123.9	1131.2	1134.9
15°	1109.3	1136.7	1162.3	1186.0	1200.6	1211.5	1218.8	1220.6
17.5°	1167.7	1198.7	1226.1	1251.7	1266.3	1279.0	1286.3	1290.0
20°	1213.3	1248.0	1275.4	1300.9	1317.3	1331.9	1342.9	1344.7
22.5°	1246.2	1280.9	1311.9	1337.4	1357.5	1372.1	1381.2	1384.9
25°	1269.9	1306.4	1337.4	1363.0	1383.0	1399.4	1408.6	1412.2
27.5°	1280.9	1319.2	1352.0	1375.7	1395.8	1412.2	1423.2	1425.0
30°	1282.7	1319.2	1352.0	1377.6	1397.6	1414.0	1423.2	1426.8
32.5°	1269.9	1308.2	1341.1	1364.8	1384.9	1401.3	1410.4	1412.2
35°	1251.7	1286.3	1317.3	1341.1	1361.1	1375.7	1384.9	1388.5
37.5°	1224.3	1257.1	1286.3	1308.2	1326.5	1341.1	1350.2	1353.8
40°	1191.4	1222.5	1249.8	1269.9	1286.3	1299.1	1306.4	1310.0
42.5°	1153.1	1182.3	1207.9	1224.3	1240.7	1251.7	1257.1	1260.8
45°	1113.0	1140.4	1160.4	1175.0	1189.6	1198.7	1204.2	1206.0
47.5°	1071.0	1094.7	1111.2	1123.9	1134.9	1144.0	1149.5	1149.5
50°	1029.1	1049.1	1061.9	1074.7	1083.8	1089.3	1092.9	1094.7
52.5°	987.1	1003.5	1012.6	1023.6	1030.9	1036.4	1040.0	1040.0
55°	943.3	956.1	963.4	972.5	979.8	983.4	987.1	985.3
57.5°	901.3	910.5	915.9	923.2	928.7	932.4	936.0	937.8
60°	857.5	864.8	866.7	874.0	879.4	883.1	884.9	886.7
62.5°	811.9	817.4	821.1	824.7	830.2	833.8	835.7	837.5
65°	766.3	770.0	770.0	777.3	782.7	784.6	786.4	788.2
67.5°	718.9	720.7	722.5	728.0	733.5	735.3	739.0	739.0
70°	671.4	671.4	673.3	678.7	684.2	686.0	689.7	691.5
72.5°	622.2	624.0	624.0	629.5	635.0	638.6	640.4	642.2
75°	571.1	571.1	572.9	574.7	576.6	578.4	578.4	582.0
77.5°	516.4	509.1	505.4	501.8	503.6	503.6	501.8	503.6
80°	439.7	430.6	425.1	423.3	425.1	423.3	423.3	425.1
82.5°	361.3	350.3	346.7	344.8	344.8	344.8	343.0	346.7
85°	271.9	264.6	260.9	257.3	259.1	259.1	257.3	259.1
87.5°	164.2	160.6	156.9	153.3	155.1	153.3	151.4	156.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)