

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: P188554

Luminaire Tested: **24SR-LD2-64-C-UNV-L840-CD1-PG-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188554  
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-L840-CD1-PG-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

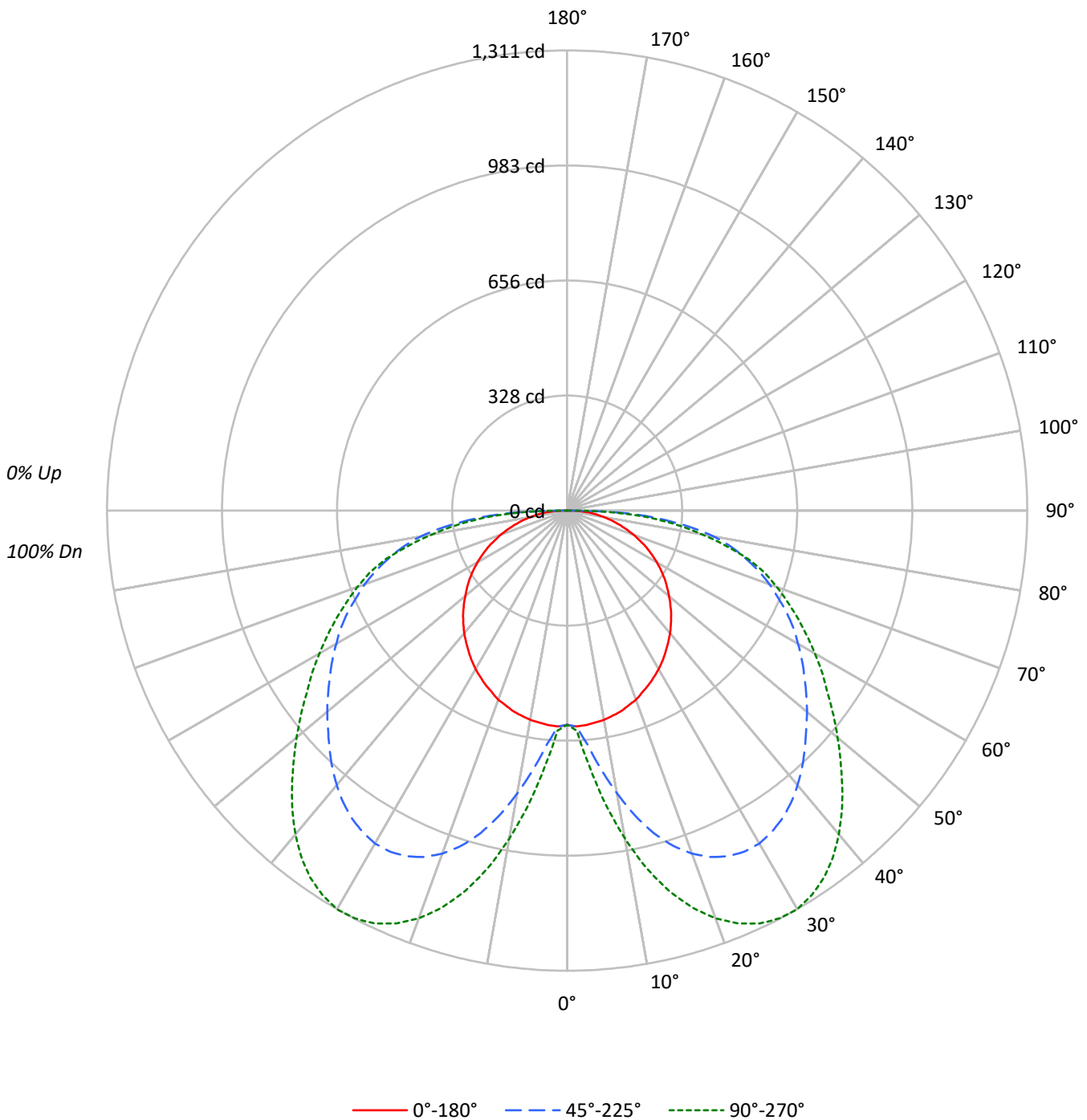
Lumens per Lamp: N/A  
Luminaire Lumens: 4069.0 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 2.25 / 2.05  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 55.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



TEST NUMBER: P188554

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L840-CD1-PG-U

### Luminous Intensity Polar Plot





TEST NUMBER: P188554

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L840-CD1-PG-U

**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°	821	821	821
5°	829	904	990
10°	827	1118	1297
15°	825	1325	1563
20°	821	1489	1770
25°	814	1613	1927
30°	810	1701	2037
35°	804	1757	2096
40°	801	1794	2115
45°	798	1822	2109
50°	793	1868	2106
55°	795	1936	2124
60°	794	2044	2193
65°	796	2200	2307
70°	792	2415	2500
75°	793	2738	2781
80°	819	3288	3027
85°	957	4091	3676



TEST NUMBER: P188554

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L840-CD1-PG-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	1.7
10°-20°	256.8	6.3
20°-30°	467.3	11.5
30°-40°	619.9	15.2
40°-50°	679.1	16.7
50°-60°	667.5	16.4
60°-70°	605.5	14.9
70°-80°	479.9	11.8
80°-90°	224.9	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°	792.1	19.5
0°-40°	1412.0	34.7
0°-60°	2758.7	67.8
0°-90°	4069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4069.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	614	618	669	716	733	58
15°	592	735	951	1079	1122	167
25°	548	811	1087	1241	1298	253
35°	490	792	1070	1222	1276	307
45°	419	713	958	1073	1108	323
55°	339	626	825	890	906	302
65°	250	540	691	711	724	246
75°	153	418	527	527	535	161
85°	62	225	265	238	238	64
90°	0	0	0	0	0	



TEST NUMBER: P188554

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L840-CD1-PG-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4
2.5°	615.5	613.8	613.8	613.8	612.1	612.1	612.1	613.8	613.8	615.5	618.8
5°	613.8	612.1	612.1	612.1	615.5	620.5	630.6	642.3	655.7	669.1	684.2
7.5°	608.8	608.8	608.8	613.8	628.9	649.0	674.2	699.3	721.1	744.6	766.4
10°	605.4	605.4	608.8	625.5	655.7	689.3	722.8	756.3	786.5	818.4	848.6
12.5°	598.7	598.7	608.8	640.6	682.5	726.2	768.1	810.0	850.3	888.8	922.4
15°	592.0	592.0	613.8	659.1	709.4	761.4	811.7	860.3	907.3	950.9	989.4
17.5°	581.9	583.6	617.1	672.5	732.9	791.6	846.9	902.2	952.6	1001.2	1041.4
20°	573.5	576.9	620.5	684.2	751.3	816.7	878.8	935.8	989.4	1039.8	1083.4
22.5°	560.1	566.8	622.2	692.6	764.7	835.2	898.9	959.3	1016.3	1068.3	1111.9
25°	548.4	556.8	620.5	696.0	774.8	846.9	912.3	974.4	1033.0	1086.7	1132.0
27.5°	535.0	548.4	618.8	697.6	778.1	851.9	919.0	982.7	1041.4	1095.1	1142.1
30°	521.6	538.3	613.8	696.0	776.5	850.3	917.3	982.7	1041.4	1095.1	1140.4
32.5°	506.5	524.9	603.7	687.6	769.8	841.9	908.9	972.7	1033.0	1085.0	1130.3
35°	489.7	511.5	592.0	675.8	756.3	828.5	893.9	957.6	1016.3	1069.9	1113.5
37.5°	472.9	498.1	578.6	662.4	741.2	811.7	875.4	939.1	996.2	1048.1	1090.1
40°	456.2	483.0	563.5	645.7	722.8	791.6	855.3	917.3	971.0	1021.3	1059.9
42.5°	437.7	467.9	546.7	627.2	701.0	768.1	831.8	892.2	944.2	991.1	1028.0
45°	419.3	449.4	528.3	607.1	680.9	744.6	806.6	865.3	914.0	957.6	992.8
47.5°	399.1	432.7	511.5	587.0	657.4	722.8	783.2	836.8	885.5	924.0	957.6
50°	379.0	414.2	491.4	566.8	635.6	699.3	758.0	810.0	855.3	892.2	920.7
52.5°	358.9	395.8	472.9	546.7	615.5	677.5	734.5	783.2	825.1	858.6	887.1
55°	338.8	377.3	454.5	526.6	595.3	655.7	711.1	756.3	796.6	825.1	848.6
57.5°	317.0	358.9	436.0	508.1	575.2	635.6	687.6	731.2	768.1	793.2	813.4
60°	295.2	338.8	415.9	489.7	555.1	613.8	664.1	706.0	737.9	759.7	778.1
62.5°	271.7	318.6	397.5	469.6	535.0	592.0	638.9	675.8	707.7	727.8	737.9
65°	249.9	298.5	377.3	449.4	513.2	566.8	612.1	647.3	674.2	690.9	699.3
67.5°	224.7	276.7	355.5	427.6	488.0	540.0	581.9	615.5	638.9	650.7	657.4
70°	201.2	254.9	332.1	402.5	459.5	509.8	550.1	581.9	602.1	613.8	615.5
72.5°	176.1	231.4	308.6	375.7	431.0	478.0	516.5	545.0	561.8	571.9	573.5
75°	152.6	206.3	280.1	343.8	395.8	439.4	476.3	503.1	519.9	526.6	526.6
77.5°	129.1	179.4	249.9	310.2	358.9	399.1	432.7	459.5	472.9	479.6	479.6
80°	105.7	154.3	218.0	273.4	317.0	353.9	387.4	410.9	424.3	424.3	414.2
82.5°	83.9	125.8	181.1	231.4	268.3	301.9	333.7	348.8	352.2	348.8	340.4
85°	62.0	95.6	140.9	179.4	213.0	236.5	256.6	266.6	268.3	265.0	258.3
87.5°	35.2	55.3	80.5	105.7	127.5	139.2	156.0	159.3	159.3	164.3	156.0
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: P188554

CATALOG NUMBER: 24SR-LD2-64-C-UNV-L840-CD1-PG-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4
2.5°	620.5	622.2	622.2	627.2	627.2	628.9	627.2	627.2
5°	694.3	701.0	711.1	721.1	724.5	731.2	729.5	732.9
7.5°	783.2	796.6	811.7	825.1	831.8	838.5	840.2	845.2
10°	872.1	888.8	907.3	925.7	935.8	940.8	947.5	949.2
12.5°	949.2	974.4	992.8	1012.9	1026.3	1033.0	1039.8	1043.1
15°	1019.6	1044.8	1068.3	1090.1	1103.5	1113.5	1120.3	1121.9
17.5°	1073.3	1101.8	1127.0	1150.4	1163.9	1175.6	1182.3	1185.7
20°	1115.2	1147.1	1172.2	1195.7	1210.8	1224.2	1234.3	1236.0
22.5°	1145.4	1177.3	1205.8	1229.3	1247.7	1261.1	1269.5	1272.9
25°	1167.2	1200.7	1229.3	1252.7	1271.2	1286.3	1294.7	1298.0
27.5°	1177.3	1212.5	1242.7	1264.5	1282.9	1298.0	1308.1	1309.8
30°	1178.9	1212.5	1242.7	1266.2	1284.6	1299.7	1308.1	1311.4
32.5°	1167.2	1202.4	1232.6	1254.4	1272.9	1288.0	1296.3	1298.0
35°	1150.4	1182.3	1210.8	1232.6	1251.1	1264.5	1272.9	1276.2
37.5°	1125.3	1155.5	1182.3	1202.4	1219.2	1232.6	1241.0	1244.4
40°	1095.1	1123.6	1148.8	1167.2	1182.3	1194.0	1200.7	1204.1
42.5°	1059.9	1086.7	1110.2	1125.3	1140.4	1150.4	1155.5	1158.8
45°	1023.0	1048.1	1066.6	1080.0	1093.4	1101.8	1106.8	1108.5
47.5°	984.4	1006.2	1021.3	1033.0	1043.1	1051.5	1056.5	1056.5
50°	945.8	964.3	976.0	987.8	996.2	1001.2	1004.5	1006.2
52.5°	907.3	922.4	930.7	940.8	947.5	952.6	955.9	955.9
55°	867.0	878.8	885.5	893.9	900.6	903.9	907.3	905.6
57.5°	828.5	836.8	841.9	848.6	853.6	857.0	860.3	862.0
60°	788.2	794.9	796.6	803.3	808.3	811.7	813.4	815.0
62.5°	746.3	751.3	754.7	758.0	763.0	766.4	768.1	769.8
65°	704.4	707.7	707.7	714.4	719.4	721.1	722.8	724.5
67.5°	660.7	662.4	664.1	669.1	674.2	675.8	679.2	679.2
70°	617.1	617.1	618.8	623.9	628.9	630.6	633.9	635.6
72.5°	571.9	573.5	573.5	578.6	583.6	587.0	588.6	590.3
75°	524.9	524.9	526.6	528.3	529.9	531.6	531.6	535.0
77.5°	474.6	467.9	464.5	461.2	462.9	462.9	461.2	462.9
80°	404.2	395.8	390.7	389.1	390.7	389.1	389.1	390.7
82.5°	332.1	322.0	318.6	317.0	317.0	317.0	315.3	318.6
85°	249.9	243.2	239.8	236.5	238.1	238.1	236.5	238.1
87.5°	150.9	147.6	144.2	140.9	142.5	140.9	139.2	144.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)