

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: P571817

Luminaire Tested: **4APVTLD-54L850**

Issue Date: 9/28/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P571817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2108-352-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/28/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4APVTLTD-54L850  
Description: 4FT VAPORTIGHT  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

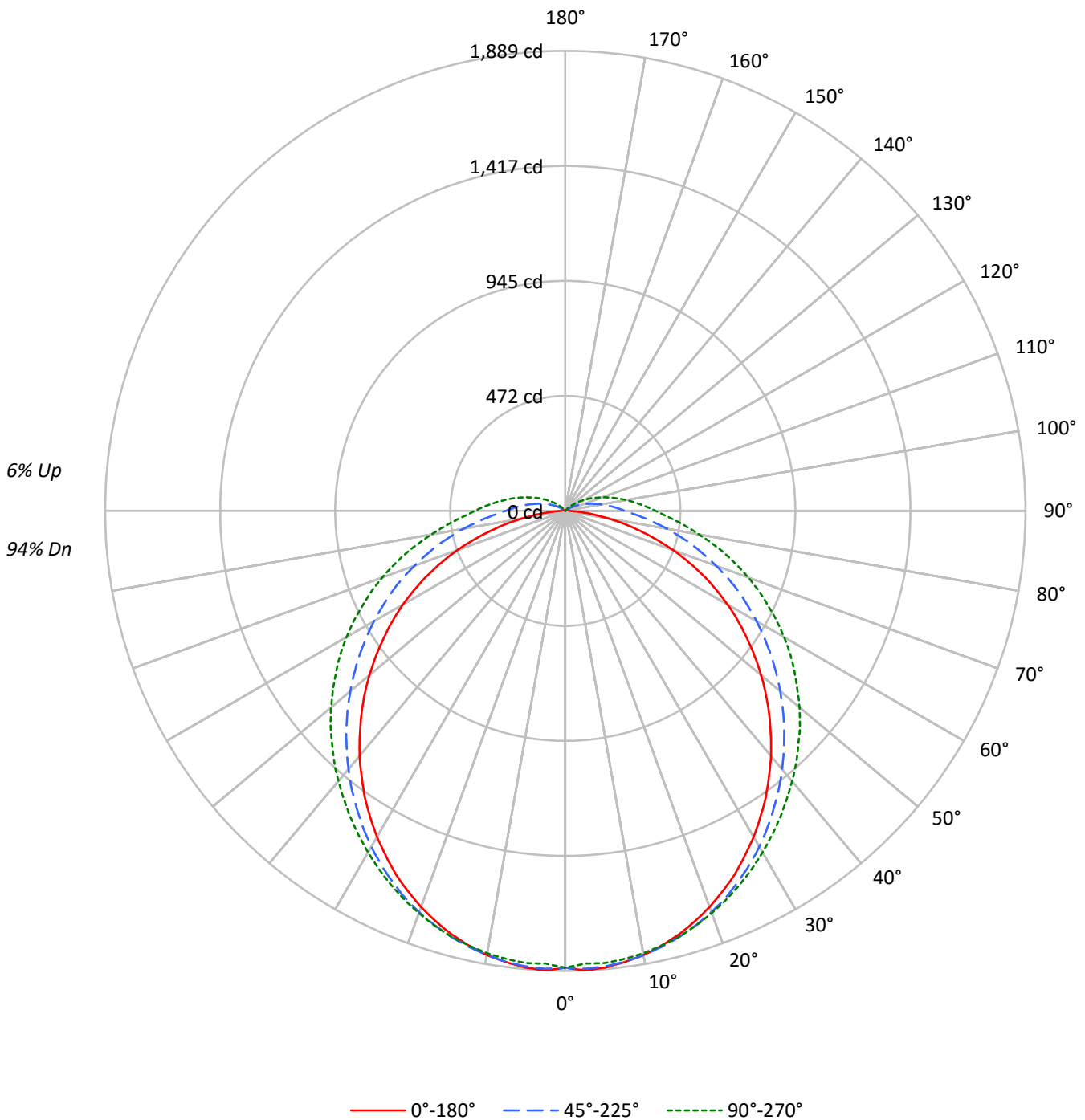
Lumens per Lamp: N/A  
Luminaire Lumens: 6328.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 50.4  
Input Voltage (V): 120  
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: 28.75 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	50	30	10	0
RCR																					
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	96	96	96	94
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	77	75	75	75	75
2	95	86	79	73	92	84	77	71	79	73	68	75	70	66	71	67	64	61	61	61	61
3	87	75	67	60	83	73	65	59	69	62	57	66	60	55	62	57	53	51	51	51	51
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	43	43	43	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	50	44	39	37	37	37	37
6	67	53	44	37	65	52	43	37	49	42	36	47	40	35	45	39	34	32	32	32	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28	28	28	28
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	38	32	27	25	25	25	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	23	23	23	23
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	20	20	20	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12116	12116	12116
5°	12159	11847	11672
10°	12057	11512	11299
15°	11905	11171	10926
20°	11720	10823	10545
25°	11511	10447	10170
30°	11258	10062	9808
35°	10994	9651	9467
40°	10705	9250	9146
45°	10384	8848	8828
50°	10046	8432	8538
55°	9668	8025	8225
60°	9274	7604	7912
65°	8731	7184	7545
70°	8006	6696	7186
75°	6884	6213	6798
80°	5457	5699	6351
85°	3604	5230	6032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.6	2.8
10°-20°	508.3	8.0
20°-30°	768.6	12.1
30°-40°	928.3	14.7
40°-50°	976.9	15.4
50°-60°	918.7	14.5
60°-70°	768.2	12.1
70°-80°	550.7	8.7
80°-90°	329.4	5.2
90°-100°	196.7	3.1
100°-110°	116.2	1.8
110°-120°	59.1	0.9
120°-130°	23.3	0.4
130°-140°	5.6	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1454.4	23.0
0°-40°	2382.8	37.7
0°-60°	4278.4	67.6
0°-90°	5926.9	93.7
90°-120°	372.0	5.9
90°-150°	401.1	6.3
90°-180°	401.0	6.3
0°-180°	6328.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1876	1876	1876	1876	1876	
5°	1882	1863	1877	1862	1863	179
15°	1800	1787	1810	1804	1809	508
25°	1647	1640	1680	1681	1693	758
35°	1435	1440	1492	1516	1537	897
45°	1184	1202	1271	1320	1353	913
55°	910	939	1031	1109	1148	814
65°	622	666	785	881	917	615
75°	319	403	539	641	679	339
85°	72	183	322	420	454	82
90°	18	116	244	339	370	12
95°	16	78	195	278	310	13
105°	13	30	113	183	207	13
115°	8	9	54	105	125	8
125°	5	5	16	47	60	5
135°	2	2	2	11	18	2
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1876.0	1876.0	1876.0	1876.0	1876.0
2.5°	1888.6	1869.7	1882.3	1868.5	1860.9
5°	1882.3	1863.4	1877.3	1862.2	1863.4
7.5°	1868.5	1850.8	1867.2	1853.4	1855.9
10°	1852.1	1834.5	1852.1	1840.8	1844.5
12.5°	1828.2	1813.0	1833.2	1823.1	1828.2
15°	1800.4	1786.6	1810.5	1804.2	1809.3
17.5°	1767.7	1755.1	1784.1	1780.3	1785.3
20°	1731.1	1721.1	1753.8	1748.8	1757.6
22.5°	1689.6	1683.3	1719.8	1716.0	1727.4
25°	1646.7	1640.4	1679.5	1680.7	1693.3
27.5°	1596.3	1593.8	1637.9	1641.7	1658.1
30°	1545.9	1545.9	1592.6	1601.4	1619.0
32.5°	1490.5	1494.3	1543.4	1559.8	1578.7
35°	1435.1	1440.1	1491.8	1515.7	1537.1
37.5°	1373.3	1383.4	1440.1	1469.1	1493.0
40°	1314.1	1324.2	1384.7	1419.9	1448.9
42.5°	1248.6	1263.7	1328.0	1370.8	1403.6
45°	1184.3	1202.0	1271.3	1320.4	1353.2
47.5°	1117.6	1137.7	1212.1	1268.7	1306.5
50°	1049.5	1073.5	1151.6	1215.8	1254.9
52.5°	980.2	1006.7	1091.1	1162.9	1200.7
55°	909.7	938.6	1030.6	1108.7	1147.8
57.5°	840.4	873.1	967.6	1053.3	1094.9
60°	769.8	806.4	907.1	995.3	1036.9
62.5°	696.7	737.1	845.4	939.9	979.0
65°	622.4	666.5	784.9	880.7	917.2
67.5°	546.8	599.7	723.2	821.5	860.5
70°	472.5	532.9	658.9	758.5	798.8
72.5°	393.1	466.2	598.5	700.5	738.3
75°	318.8	403.2	539.2	641.3	679.1
77.5°	248.2	344.0	480.0	580.8	616.1
80°	181.4	282.2	424.6	524.1	558.1
82.5°	121.0	229.3	370.4	470.0	504.0
85°	71.8	182.7	322.5	419.6	453.6
87.5°	34.0	144.9	278.4	374.2	407.0
90°	17.6	115.9	244.4	338.9	370.4
92.5°	16.4	95.8	219.2	308.7	338.9
95°	16.4	78.1	195.3	278.4	309.9
97.5°	15.1	63.0	172.6	254.5	281.0
100°	13.9	50.4	151.2	228.0	254.5
102.5°	13.9	39.1	131.0	204.1	230.6
105°	12.6	30.2	113.4	182.7	206.6
107.5°	11.3	22.7	95.8	161.3	183.9
110°	10.1	17.6	80.6	141.1	162.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	8.8	12.6	66.8	122.2	142.4
115°	7.6	8.8	54.2	104.6	124.7
117.5°	7.6	7.6	41.6	88.2	107.1
120°	6.3	6.3	31.5	73.1	90.7
122.5°	6.3	5.0	23.9	59.2	74.3
125°	5.0	5.0	16.4	46.6	60.5
127.5°	3.8	3.8	10.1	35.3	47.9
130°	3.8	3.8	6.3	26.5	36.5
132.5°	2.5	2.5	2.5	18.9	26.5
135°	2.5	2.5	2.5	11.3	17.6
137.5°	2.5	1.3	1.3	6.3	11.3
140°	1.3	1.3	1.3	2.5	5.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)