

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: P571815

Luminaire Tested: **4APVTLD-54L835**

Issue Date: 9/28/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P571815  
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: 4APVTLD-54L835  
Description: 4FT VAPORTIGHT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

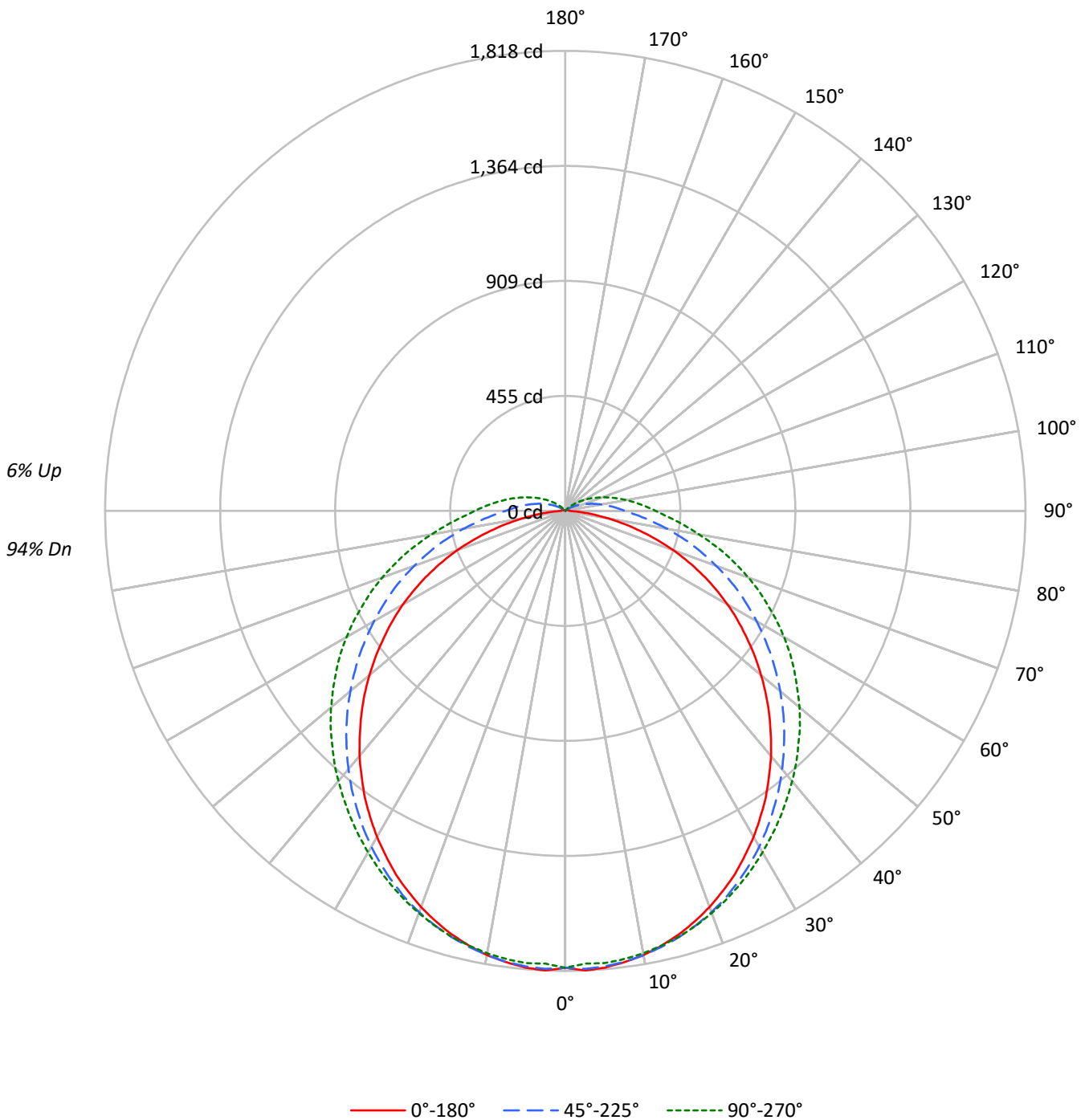
Lumens per Lamp: N/A  
Luminaire Lumens: 6090.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 50.2  
Input Voltage (V): 120  
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: 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				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	77	77	77	75
2	95	86	79	73	92	84	77	71	79	73	68	75	70	66	71	67	64	64	64	64	61
3	87	75	67	60	83	73	65	59	69	62	57	66	60	55	62	57	53	53	53	53	51
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	45	45	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	50	44	39	39	39	39	37
6	67	53	44	37	65	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	38	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	24	24	24	23
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	22	22	22	20

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

	0°	45°	90°
0°	11661	11661	11661
5°	11701	11401	11234
10°	11604	11079	10875
15°	11457	10750	10515
20°	11279	10417	10148
25°	11078	10054	9788
30°	10835	9684	9439
35°	10580	9288	9111
40°	10302	8902	8802
45°	9994	8515	8496
50°	9668	8115	8217
55°	9304	7724	7916
60°	8926	7318	7614
65°	8403	6914	7261
70°	7704	6445	6916
75°	6625	5980	6543
80°	5253	5484	6113
85°	3469	5033	5805



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.9	2.8
10°-20°	489.2	8.0
20°-30°	739.7	12.1
30°-40°	893.4	14.7
40°-50°	940.2	15.4
50°-60°	884.2	14.5
60°-70°	739.3	12.1
70°-80°	530.0	8.7
80°-90°	317.1	5.2
90°-100°	189.3	3.1
100°-110°	111.9	1.8
110°-120°	56.9	0.9
120°-130°	22.5	0.4
130°-140°	5.4	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°	1399.7	23.0
0°-40°	2293.2	37.7
0°-60°	4117.5	67.6
0°-90°	5704.0	93.7
90°-120°	358.0	5.9
90°-150°	386.1	6.3
90°-180°	386.0	6.3
0°-180°	6090.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1812	1793	1807	1792	1793	172
15°	1733	1719	1742	1736	1741	489
25°	1585	1579	1616	1618	1630	729
35°	1381	1386	1436	1459	1479	863
45°	1140	1157	1224	1271	1302	879
55°	876	903	992	1067	1105	783
65°	599	641	755	848	883	592
75°	307	388	519	617	654	327
85°	69	176	310	404	436	79
90°	17	112	235	326	356	11
95°	16	75	188	268	298	12
105°	12	29	109	176	199	13
115°	7	8	52	101	120	8
125°	5	5	16	45	58	4
135°	2	2	2	11	17	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°	1805.5	1805.5	1805.5	1805.5	1805.5
2.5°	1817.6	1799.4	1811.5	1798.2	1790.9
5°	1811.5	1793.4	1806.7	1792.1	1793.4
7.5°	1798.2	1781.2	1797.0	1783.6	1786.1
10°	1782.4	1765.5	1782.4	1771.5	1775.2
12.5°	1759.4	1744.8	1764.2	1754.5	1759.4
15°	1732.7	1719.4	1742.4	1736.4	1741.2
17.5°	1701.2	1689.1	1717.0	1713.3	1718.2
20°	1666.0	1656.3	1687.9	1683.0	1691.5
22.5°	1626.0	1620.0	1655.1	1651.5	1662.4
25°	1584.8	1578.7	1616.3	1617.5	1629.7
27.5°	1536.3	1533.9	1576.3	1579.9	1595.7
30°	1487.8	1487.8	1532.7	1541.1	1558.1
32.5°	1434.4	1438.1	1485.4	1501.1	1519.3
35°	1381.1	1385.9	1435.7	1458.7	1479.3
37.5°	1321.7	1331.4	1385.9	1413.8	1436.9
40°	1264.7	1274.4	1332.6	1366.5	1394.4
42.5°	1201.6	1216.2	1278.0	1319.2	1350.8
45°	1139.8	1156.8	1223.5	1270.7	1302.3
47.5°	1075.5	1094.9	1166.5	1221.0	1257.4
50°	1010.0	1033.1	1108.3	1170.1	1207.7
52.5°	943.4	968.8	1050.1	1119.2	1155.6
55°	875.5	903.3	991.9	1067.0	1104.6
57.5°	808.8	840.3	931.2	1013.7	1053.7
60°	740.9	776.0	873.0	957.9	997.9
62.5°	670.5	709.3	813.6	904.6	942.1
65°	599.0	641.4	755.4	847.6	882.7
67.5°	526.2	577.2	696.0	790.6	828.2
70°	454.7	512.9	634.2	730.0	768.8
72.5°	378.3	448.6	576.0	674.2	710.5
75°	306.8	388.0	519.0	617.2	653.6
77.5°	238.9	331.0	462.0	559.0	592.9
80°	174.6	271.6	408.6	504.4	537.2
82.5°	116.4	220.7	356.5	452.3	485.0
85°	69.1	175.8	310.4	403.8	436.5
87.5°	32.7	139.4	268.0	360.1	391.7
90°	17.0	111.6	235.2	326.2	356.5
92.5°	15.8	92.2	211.0	297.1	326.2
95°	15.8	75.2	187.9	268.0	298.3
97.5°	14.6	60.6	166.1	244.9	270.4
100°	13.3	48.5	145.5	219.5	244.9
102.5°	13.3	37.6	126.1	196.4	221.9
105°	12.1	29.1	109.1	175.8	198.9
107.5°	10.9	21.8	92.2	155.2	177.0
110°	9.7	17.0	77.6	135.8	156.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	8.5	12.1	64.3	117.6	137.0
115°	7.3	8.5	52.1	100.6	120.0
117.5°	7.3	7.3	40.0	84.9	103.1
120°	6.1	6.1	30.3	70.3	87.3
122.5°	6.1	4.9	23.0	57.0	71.5
125°	4.9	4.9	15.8	44.9	58.2
127.5°	3.6	3.6	9.7	34.0	46.1
130°	3.6	3.6	6.1	25.5	35.2
132.5°	2.4	2.4	2.4	18.2	25.5
135°	2.4	2.4	2.4	10.9	17.0
137.5°	2.4	1.2	1.2	6.1	10.9
140°	1.2	1.2	1.2	2.4	4.9
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)