

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: P571812

Luminaire Tested: **4APVTLD-40L835**

Issue Date: 9/28/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P571812  
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-40L835  
Description: 4FT VAPORTIGHT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

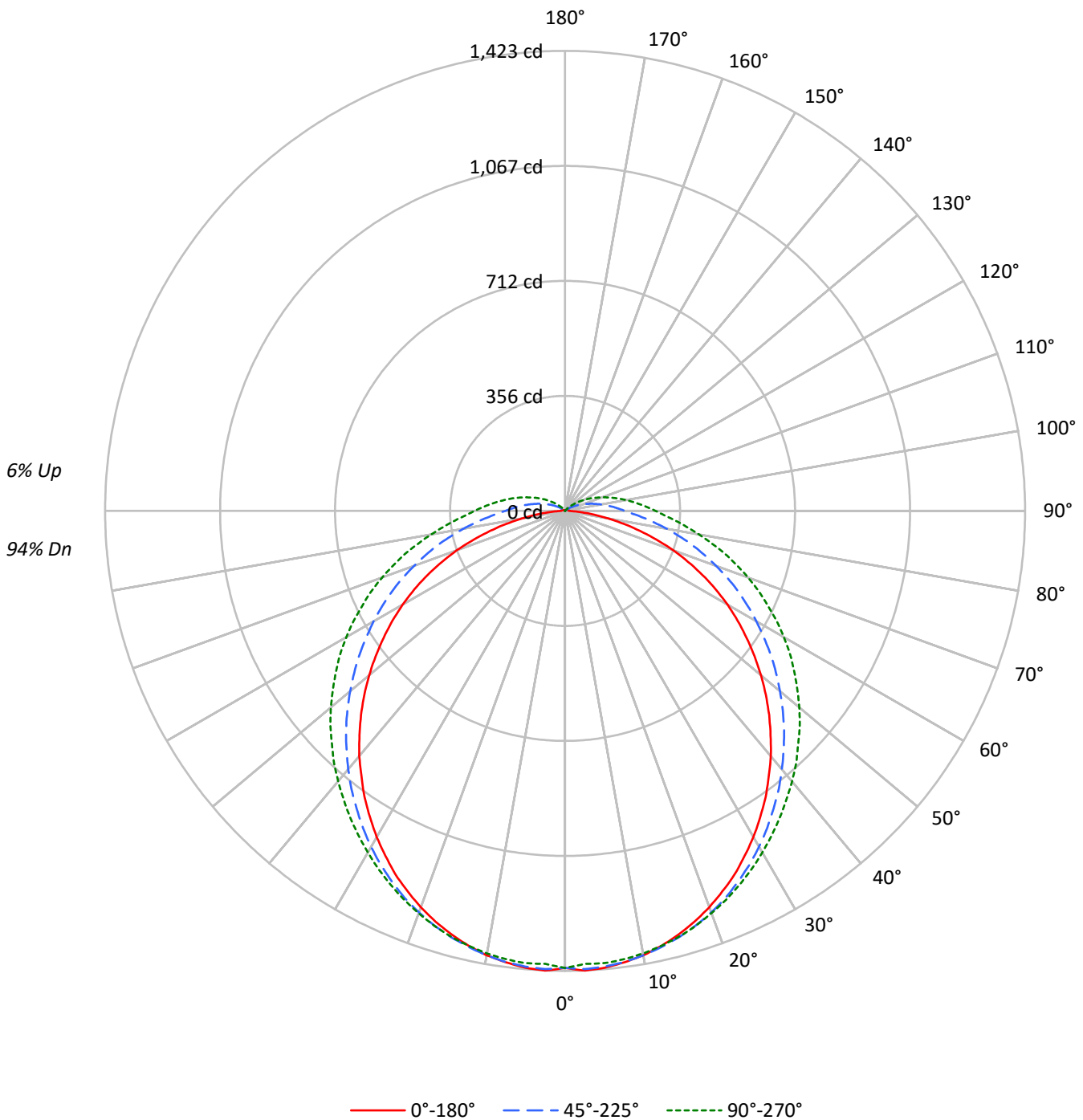
Lumens per Lamp: N/A  
Luminaire Lumens: 4768.9 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 39.6  
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	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°	9131	9131	9131
5°	9163	8928	8796
10°	9087	8676	8516
15°	8972	8419	8234
20°	8832	8157	7947
25°	8675	7873	7665
30°	8485	7583	7392
35°	8285	7273	7135
40°	8068	6971	6893
45°	7826	6668	6653
50°	7572	6355	6434
55°	7286	6048	6199
60°	6990	5731	5963
65°	6581	5414	5686
70°	6034	5047	5416
75°	5187	4683	5123
80°	4112	4295	4786
85°	2716	3942	4546



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.8	2.8
10°-20°	383.1	8.0
20°-30°	579.2	12.1
30°-40°	699.6	14.7
40°-50°	736.2	15.4
50°-60°	692.4	14.5
60°-70°	579.0	12.1
70°-80°	415.0	8.7
80°-90°	248.3	5.2
90°-100°	148.2	3.1
100°-110°	87.6	1.8
110°-120°	44.5	0.9
120°-130°	17.6	0.4
130°-140°	4.2	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1096.1	23.0
0°-40°	1795.7	37.7
0°-60°	3224.4	67.6
0°-90°	4466.7	93.7
90°-120°	280.4	5.9
90°-150°	302.3	6.3
90°-180°	302.0	6.3
0°-180°	4768.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1419	1404	1415	1403	1404	135
15°	1357	1346	1364	1360	1364	383
25°	1241	1236	1266	1267	1276	571
35°	1082	1085	1124	1142	1158	676
45°	893	906	958	995	1020	688
55°	686	707	777	836	865	613
65°	469	502	592	664	691	464
75°	240	304	406	483	512	256
85°	54	138	243	316	342	62
90°	13	87	184	255	279	9
95°	12	59	147	210	234	10
105°	10	23	86	138	156	10
115°	6	7	41	79	94	6
125°	4	4	12	35	46	3
135°	2	2	2	8	13	1
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°	1413.8	1413.8	1413.8	1413.8	1413.8
2.5°	1423.3	1409.1	1418.6	1408.1	1402.5
5°	1418.6	1404.3	1414.8	1403.4	1404.3
7.5°	1408.1	1394.9	1407.2	1396.8	1398.7
10°	1395.8	1382.5	1395.8	1387.3	1390.1
12.5°	1377.8	1366.4	1381.6	1374.0	1377.8
15°	1356.9	1346.4	1364.5	1359.7	1363.5
17.5°	1332.2	1322.7	1344.5	1341.7	1345.5
20°	1304.6	1297.1	1321.7	1317.9	1324.6
22.5°	1273.3	1268.6	1296.1	1293.3	1301.8
25°	1241.0	1236.3	1265.7	1266.7	1276.2
27.5°	1203.0	1201.2	1234.4	1237.2	1249.6
30°	1165.1	1165.1	1200.2	1206.8	1220.1
32.5°	1123.3	1126.1	1163.2	1175.5	1189.8
35°	1081.5	1085.3	1124.2	1142.3	1158.4
37.5°	1035.0	1042.6	1085.3	1107.1	1125.2
40°	990.4	998.0	1043.5	1070.1	1092.0
42.5°	941.0	952.4	1000.8	1033.1	1057.8
45°	892.6	905.8	958.1	995.1	1019.8
47.5°	842.2	857.4	913.4	956.2	984.7
50°	791.0	809.0	867.9	916.3	945.7
52.5°	738.7	758.7	822.3	876.4	904.9
55°	685.6	707.4	776.7	835.6	865.0
57.5°	633.3	658.0	729.2	793.8	825.1
60°	580.2	607.7	683.7	750.1	781.5
62.5°	525.1	555.5	637.1	708.3	737.8
65°	469.1	502.3	591.6	663.7	691.3
67.5°	412.1	452.0	545.0	619.1	648.5
70°	356.1	401.6	496.6	571.6	602.0
72.5°	296.3	351.3	451.0	527.9	556.4
75°	240.2	303.8	406.4	483.3	511.8
77.5°	187.1	259.2	361.8	437.7	464.3
80°	136.7	212.7	320.0	395.0	420.6
82.5°	91.2	172.8	279.2	354.2	379.8
85°	54.1	137.7	243.1	316.2	341.8
87.5°	25.6	109.2	209.8	282.0	306.7
90°	13.3	87.4	184.2	255.4	279.2
92.5°	12.3	72.2	165.2	232.6	255.4
95°	12.3	58.9	147.2	209.8	233.6
97.5°	11.4	47.5	130.1	191.8	211.7
100°	10.4	38.0	113.9	171.9	191.8
102.5°	10.4	29.4	98.8	153.8	173.8
105°	9.5	22.8	85.5	137.7	155.7
107.5°	8.5	17.1	72.2	121.5	138.6
110°	7.6	13.3	60.8	106.3	122.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.6	9.5	50.3	92.1	107.3
115°	5.7	6.6	40.8	78.8	94.0
117.5°	5.7	5.7	31.3	66.5	80.7
120°	4.7	4.7	23.7	55.1	68.4
122.5°	4.7	3.8	18.0	44.6	56.0
125°	3.8	3.8	12.3	35.1	45.6
127.5°	2.8	2.8	7.6	26.6	36.1
130°	2.8	2.8	4.7	19.9	27.5
132.5°	1.9	1.9	1.9	14.2	19.9
135°	1.9	1.9	1.9	8.5	13.3
137.5°	1.9	0.9	0.9	4.7	8.5
140°	0.9	0.9	0.9	1.9	3.8
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)