

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: P571813

Luminaire Tested: **4APVTLD-40L840**

Issue Date: 9/28/2021

Test Information

Test Method: LM-79-08
Report Number: P571813
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-40L840
Description: 4FT VAPORTIGHT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

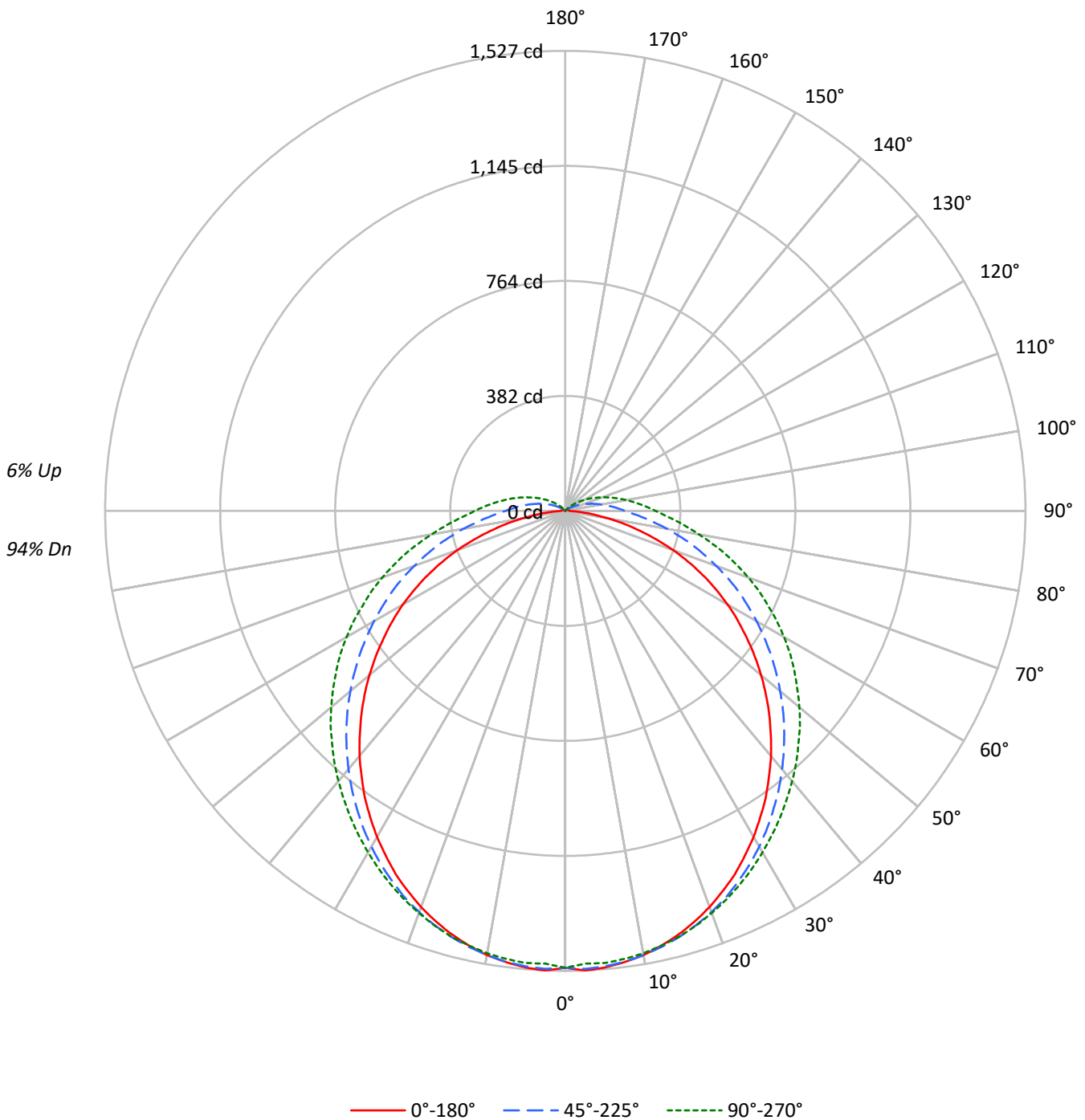
Lumens per Lamp: N/A
Luminaire Lumens: 5115.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 39.1
Input Voltage (V): 120
Input Current (A_{in}): 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°	9793	9793	9793
5°	9828	9576	9435
10°	9746	9306	9134
15°	9623	9030	8831
20°	9473	8748	8523
25°	9305	8444	8221
30°	9100	8133	7929
35°	8886	7801	7653
40°	8653	7476	7393
45°	8394	7152	7136
50°	8120	6815	6901
55°	7814	6487	6649
60°	7497	6147	6396
65°	7058	5807	6099
70°	6471	5413	5809
75°	5565	5023	5494
80°	4413	4606	5134
85°	2911	4227	4875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	2.8
10°-20°	410.8	8.0
20°-30°	621.3	12.1
30°-40°	750.4	14.7
40°-50°	789.7	15.4
50°-60°	742.6	14.5
60°-70°	621.0	12.1
70°-80°	445.2	8.7
80°-90°	266.3	5.2
90°-100°	159.0	3.1
100°-110°	94.0	1.8
110°-120°	47.8	0.9
120°-130°	18.9	0.4
130°-140°	4.5	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°	1175.6	23.0
0°-40°	1926.0	37.7
0°-60°	3458.3	67.6
0°-90°	4790.8	93.7
90°-120°	300.7	5.9
90°-150°	324.2	6.3
90°-180°	324.0	6.3
0°-180°	5115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1516	1516	1516	1516	1516	
5°	1522	1506	1517	1505	1506	144
15°	1455	1444	1464	1458	1462	410
25°	1331	1326	1358	1359	1369	613
35°	1160	1164	1206	1225	1242	725
45°	957	972	1028	1067	1094	738
55°	735	759	833	896	928	658
65°	503	539	634	712	741	497
75°	258	326	436	518	549	274
85°	58	148	261	339	367	66
90°	14	94	198	274	299	9
95°	13	63	158	225	250	10
105°	10	24	92	148	167	11
115°	6	7	44	84	101	6
125°	4	4	13	38	49	4
135°	2	2	2	9	14	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°	1516.4	1516.4	1516.4	1516.4	1516.4
2.5°	1526.6	1511.3	1521.5	1510.3	1504.2
5°	1521.5	1506.2	1517.4	1505.2	1506.2
7.5°	1510.3	1496.1	1509.3	1498.1	1500.1
10°	1497.1	1482.8	1497.1	1487.9	1491.0
12.5°	1477.7	1465.5	1481.8	1473.6	1477.7
15°	1455.3	1444.1	1463.5	1458.4	1462.4
17.5°	1428.8	1418.7	1442.1	1439.0	1443.1
20°	1399.3	1391.2	1417.6	1413.6	1420.7
22.5°	1365.7	1360.6	1390.1	1387.1	1396.2
25°	1331.1	1326.0	1357.5	1358.6	1368.8
27.5°	1290.3	1288.3	1323.9	1327.0	1340.2
30°	1249.6	1249.6	1287.3	1294.4	1308.7
32.5°	1204.8	1207.8	1247.6	1260.8	1276.1
35°	1160.0	1164.0	1205.8	1225.2	1242.5
37.5°	1110.1	1118.2	1164.0	1187.5	1206.8
40°	1062.2	1070.4	1119.2	1147.8	1171.2
42.5°	1009.3	1021.5	1073.4	1108.0	1134.5
45°	957.3	971.6	1027.6	1067.3	1093.8
47.5°	903.3	919.6	979.7	1025.5	1056.1
50°	848.3	867.7	930.8	982.8	1014.3
52.5°	792.3	813.7	881.9	940.0	970.6
55°	735.3	758.7	833.1	896.2	927.8
57.5°	679.3	705.8	782.1	851.4	885.0
60°	622.3	651.8	733.3	804.5	838.2
62.5°	563.2	595.8	683.4	759.7	791.3
65°	503.1	538.7	634.5	711.9	741.4
67.5°	442.0	484.8	584.6	664.0	695.6
70°	381.9	430.8	532.6	613.1	645.7
72.5°	317.7	376.8	483.7	566.2	596.8
75°	257.7	325.9	435.9	518.4	548.9
77.5°	200.6	278.0	388.0	469.5	498.0
80°	146.7	228.1	343.2	423.7	451.2
82.5°	97.8	185.4	299.4	379.9	407.4
85°	58.0	147.7	260.7	339.1	366.6
87.5°	27.5	117.1	225.1	302.5	328.9
90°	14.3	93.7	197.6	274.0	299.4
92.5°	13.2	77.4	177.2	249.5	274.0
95°	13.2	63.1	157.9	225.1	250.5
97.5°	12.2	50.9	139.5	205.7	227.1
100°	11.2	40.7	122.2	184.3	205.7
102.5°	11.2	31.6	105.9	165.0	186.4
105°	10.2	24.4	91.7	147.7	167.0
107.5°	9.2	18.3	77.4	130.4	148.7
110°	8.1	14.3	65.2	114.1	131.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.1	10.2	54.0	98.8	115.1
115°	6.1	7.1	43.8	84.5	100.8
117.5°	6.1	6.1	33.6	71.3	86.6
120°	5.1	5.1	25.5	59.1	73.3
122.5°	5.1	4.1	19.3	47.9	60.1
125°	4.1	4.1	13.2	37.7	48.9
127.5°	3.1	3.1	8.1	28.5	38.7
130°	3.1	3.1	5.1	21.4	29.5
132.5°	2.0	2.0	2.0	15.3	21.4
135°	2.0	2.0	2.0	9.2	14.3
137.5°	2.0	1.0	1.0	5.1	9.2
140°	1.0	1.0	1.0	2.0	4.1
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)