

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: P571810

Luminaire Tested: **2APVTLD-20L840**

Issue Date: 9/28/2021

Test Information

Test Method: LM-79-08
Report Number: P571810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-149-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/28/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2APVTLD-20L840
Description: 2FT VAPORTIGHT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

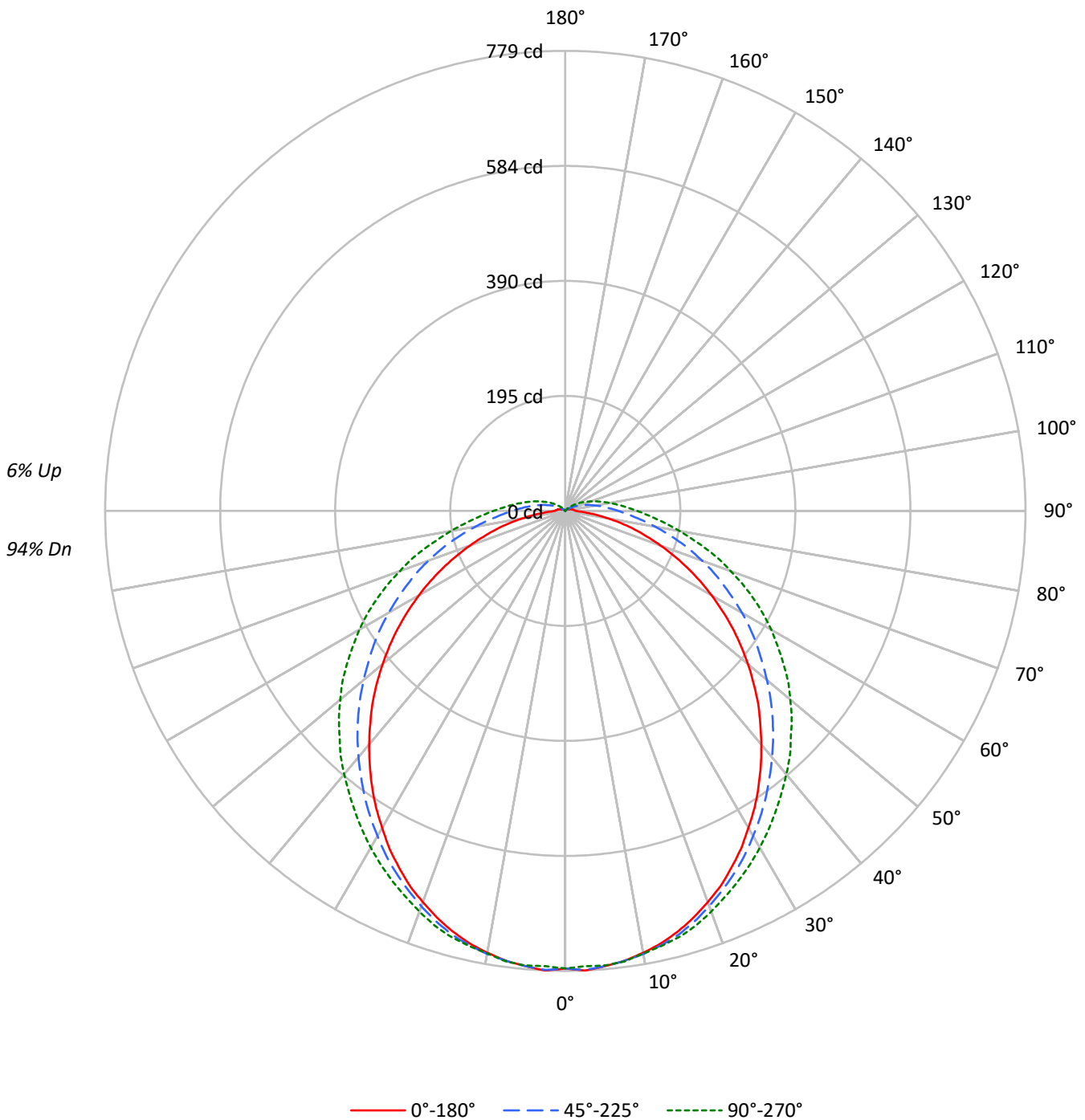
Lumens per Lamp: N/A
Luminaire Lumens: 2447.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')
CIE Type: Direct

Input Watts (W): 19.1
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	97	97	97	97	97	97	94
1	106	101	96	91	103	98	93	89	92	89	85	87	85	82	83	81	78	83	81	78	76
2	96	87	80	73	93	85	78	72	80	74	70	76	71	67	72	68	65	72	68	65	62
3	87	76	67	61	84	74	66	60	70	63	58	67	61	56	63	59	55	63	59	55	52
4	80	67	58	51	77	66	57	50	62	55	49	59	53	48	56	51	47	56	51	47	44
5	73	60	51	44	71	59	50	43	56	48	42	53	47	41	51	45	40	51	45	40	38
6	68	54	45	38	65	53	44	38	50	43	37	48	41	36	46	40	35	46	40	35	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	31	42	36	31	29
8	58	45	36	30	56	44	35	30	42	34	29	40	34	29	39	33	28	39	33	28	26
9	54	41	33	27	53	40	32	27	38	31	26	37	31	26	36	30	25	36	30	25	24
10	51	38	30	24	49	37	29	24	36	29	24	34	28	23	33	27	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5003	5003	5003
5°	4904	4284	4110
10°	4763	3717	3463
15°	4607	3260	2990
20°	4425	2863	2598
25°	4233	2525	2277
30°	4018	2230	2010
35°	3803	1971	1780
40°	3574	1740	1584
45°	3346	1535	1410
50°	3094	1346	1255
55°	2835	1177	1111
60°	2548	1018	975
65°	2237	869	845
70°	1894	731	715
75°	1539	600	595
80°	1116	477	482
85°	682	373	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.0
10°-20°	208.3	8.5
20°-30°	311.0	12.7
30°-40°	370.1	15.1
40°-50°	383.1	15.7
50°-60°	353.3	14.4
60°-70°	288.4	11.8
70°-80°	202.4	8.3
80°-90°	119.5	4.9
90°-100°	68.5	2.8
100°-110°	38.8	1.6
110°-120°	19.6	0.8
120°-130°	8.2	0.3
130°-140°	2.5	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°	592.5	24.2
0°-40°	962.6	39.3
0°-60°	1698.9	69.4
0°-90°	2309.2	94.4
90°-120°	127.0	5.2
90°-150°	137.8	5.6
90°-180°	138.0	5.6
0°-180°	2447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	774	769	774	765	773	73
15°	737	734	742	738	747	208
25°	666	665	677	679	692	307
35°	570	574	592	605	621	356
45°	462	468	496	520	540	356
55°	345	357	396	428	451	308
65°	228	249	295	330	352	226
75°	122	151	199	231	246	128
85°	37	73	117	143	154	38
90°	18	50	89	112	122	10
95°	15	34	69	89	97	12
105°	11	16	39	55	60	11
115°	8	6	18	30	36	7
125°	4	4	6	14	18	4
135°	2	2	2	4	6	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°	774.7	774.7	774.7	774.7	774.7
2.5°	779.1	773.7	778.0	767.2	771.6
5°	773.7	769.4	773.7	765.1	772.7
7.5°	768.4	762.9	768.4	760.8	769.4
10°	759.7	756.5	761.9	754.4	760.8
12.5°	750.0	746.8	753.2	745.7	754.4
15°	737.1	733.9	742.5	738.2	746.8
17.5°	722.1	719.9	728.5	726.4	736.1
20°	704.9	703.7	712.4	711.3	722.1
22.5°	687.6	685.4	695.1	695.1	707.0
25°	666.1	665.1	676.9	679.1	691.9
27.5°	644.6	643.5	657.5	661.8	675.8
30°	619.8	622.0	635.9	643.5	658.6
32.5°	596.1	598.3	614.4	624.1	640.3
35°	570.3	573.6	591.8	604.8	620.9
37.5°	543.5	548.8	568.1	584.3	601.6
40°	516.5	521.9	544.5	562.8	582.1
42.5°	488.5	495.0	520.8	541.3	562.8
45°	461.7	468.1	496.1	519.8	540.2
47.5°	432.6	441.2	471.3	498.2	519.8
50°	403.5	413.2	445.5	474.5	497.2
52.5°	374.5	385.2	419.7	452.0	475.6
55°	345.4	357.2	396.0	428.3	450.9
57.5°	315.2	330.4	371.2	404.7	426.2
60°	286.2	302.4	345.4	379.9	402.5
62.5°	257.2	275.5	319.6	355.1	377.7
65°	228.1	248.6	294.9	330.4	351.9
67.5°	199.1	222.8	271.2	305.6	325.0
70°	172.1	196.9	246.4	280.9	298.1
72.5°	145.3	173.3	222.8	256.1	273.4
75°	121.6	150.6	199.1	231.4	246.4
77.5°	96.8	129.1	176.5	205.6	219.6
80°	74.3	108.7	154.9	184.0	196.9
82.5°	53.8	90.4	135.6	162.5	174.3
85°	36.6	73.2	117.3	143.1	153.9
87.5°	23.7	60.3	102.3	127.0	136.6
90°	18.3	49.5	89.3	111.9	121.6
92.5°	16.2	42.0	78.6	99.0	107.6
95°	15.0	34.5	68.8	89.3	96.8
97.5°	14.0	29.0	60.3	79.6	86.1
100°	12.9	23.7	51.6	70.0	76.4
102.5°	11.8	19.3	45.2	62.5	68.8
105°	10.8	16.2	38.8	54.8	60.3
107.5°	9.7	12.9	32.3	47.3	53.8
110°	8.6	10.8	28.0	42.0	47.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.5	8.6	22.6	35.5	40.8
115°	7.5	6.5	18.3	30.1	35.5
117.5°	6.5	6.5	15.0	25.8	31.2
120°	5.4	5.4	11.8	21.5	25.8
122.5°	5.4	4.3	8.6	17.2	21.5
125°	4.3	4.3	6.5	14.0	18.3
127.5°	3.2	3.2	4.3	10.8	14.0
130°	3.2	3.2	3.2	8.6	10.8
132.5°	2.2	2.2	2.2	6.5	8.6
135°	2.2	2.2	2.2	4.3	6.5
137.5°	2.2	2.2	1.0	2.2	4.3
140°	1.0	1.0	1.0	1.0	2.2
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)