

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: P571811

Luminaire Tested: **2APVTLD-20L850**

Issue Date: 9/28/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P571811  
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-20L850  
Description: 2FT VAPORTIGHT  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

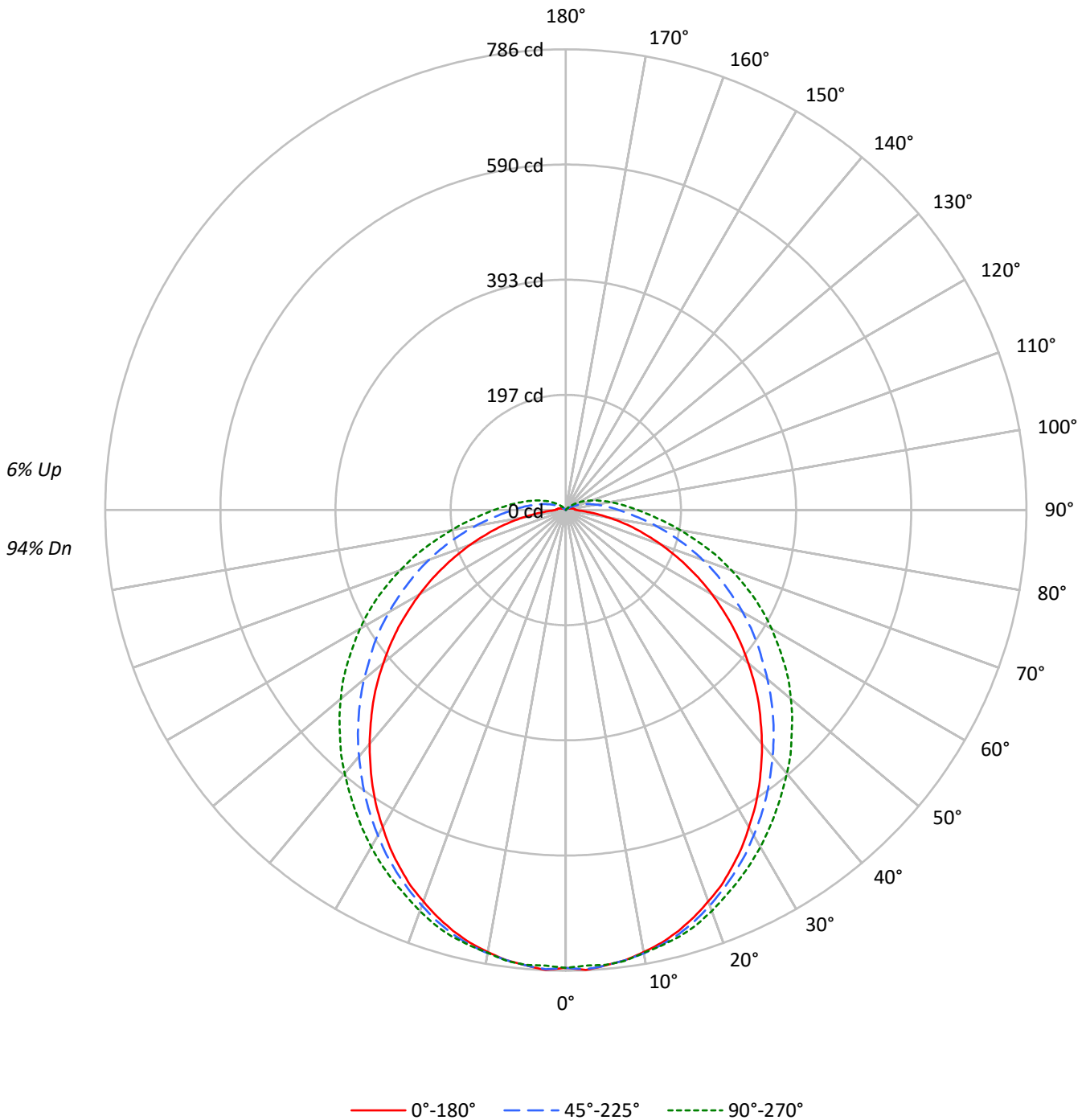
Lumens per Lamp: N/A  
Luminaire Lumens: 2467.0 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')  
CIE Type: Direct

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°	5045	5045	5045
5°	4944	4319	4144
10°	4802	3747	3492
15°	4645	3286	3015
20°	4461	2886	2620
25°	4268	2546	2295
30°	4051	2248	2027
35°	3834	1988	1794
40°	3603	1755	1597
45°	3373	1547	1421
50°	3119	1357	1266
55°	2859	1187	1120
60°	2568	1027	983
65°	2255	876	852
70°	1911	737	721
75°	1551	605	600
80°	1125	481	486
85°	688	376	389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.7	3.0
10°-20°	210.0	8.5
20°-30°	313.6	12.7
30°-40°	373.1	15.1
40°-50°	386.2	15.7
50°-60°	356.2	14.4
60°-70°	290.7	11.8
70°-80°	204.1	8.3
80°-90°	120.4	4.9
90°-100°	69.1	2.8
100°-110°	39.2	1.6
110°-120°	19.8	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°	597.3	24.2
0°-40°	970.4	39.3
0°-60°	1712.8	69.4
0°-90°	2328.1	94.4
90°-120°	128.0	5.2
90°-150°	138.9	5.6
90°-180°	139.0	5.6
0°-180°	2467.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	780	776	780	771	779	74
15°	743	740	748	744	753	209
25°	672	670	682	685	698	309
35°	575	578	597	610	626	359
45°	466	472	500	524	545	359
55°	348	360	399	432	455	311
65°	230	251	297	333	355	228
75°	123	152	201	233	248	129
85°	37	74	118	144	155	38
90°	18	50	90	113	123	11
95°	15	35	69	90	98	12
105°	11	16	39	55	61	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



TEST NUMBER: P571811  
 CATALOG NUMBER: 2APVTLD-20L850

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	781.1	781.1	781.1	781.1	781.1
2.5°	785.5	780.0	784.3	773.5	777.9
5°	780.0	775.7	780.0	771.4	779.0
7.5°	774.6	769.2	774.6	767.1	775.7
10°	765.9	762.6	768.1	760.5	767.1
12.5°	756.1	753.0	759.4	751.8	760.5
15°	743.2	739.9	748.5	744.2	753.0
17.5°	728.0	725.8	734.4	732.3	742.1
20°	710.6	709.5	718.2	717.1	728.0
22.5°	693.2	691.0	700.8	700.8	712.7
25°	671.6	670.5	682.4	684.6	697.6
27.5°	649.9	648.8	662.9	667.2	681.3
30°	624.9	627.1	641.1	648.8	664.0
32.5°	601.0	603.2	619.4	629.2	645.5
35°	575.0	578.2	596.7	609.7	626.0
37.5°	547.9	553.3	572.8	589.1	606.5
40°	520.8	526.1	549.0	567.4	586.9
42.5°	492.5	499.1	525.1	545.7	567.4
45°	465.5	471.9	500.1	524.0	544.7
47.5°	436.1	444.8	475.2	502.3	524.0
50°	406.8	416.6	449.1	478.4	501.3
52.5°	377.5	388.4	423.1	455.7	479.5
55°	348.3	360.2	399.2	431.8	454.6
57.5°	317.8	333.1	374.3	408.0	429.7
60°	288.5	304.9	348.3	383.0	405.8
62.5°	259.3	277.7	322.2	358.0	380.8
65°	230.0	250.6	297.3	333.1	354.8
67.5°	200.7	224.6	273.4	308.1	327.6
70°	173.6	198.5	248.4	283.2	300.5
72.5°	146.5	174.7	224.6	258.2	275.6
75°	122.6	151.9	200.7	233.3	248.4
77.5°	97.6	130.2	178.0	207.2	221.4
80°	74.9	109.6	156.2	185.6	198.5
82.5°	54.2	91.1	136.7	163.9	175.8
85°	36.9	73.8	118.3	144.3	155.1
87.5°	23.9	60.8	103.1	128.1	137.7
90°	18.4	49.9	90.0	112.8	122.6
92.5°	16.3	42.3	79.2	99.8	108.5
95°	15.2	34.7	69.4	90.0	97.6
97.5°	14.1	29.3	60.8	80.2	86.8
100°	13.1	23.9	52.0	70.6	77.0
102.5°	11.9	19.5	45.6	63.0	69.4
105°	10.8	16.3	39.1	55.3	60.8
107.5°	9.8	13.1	32.5	47.7	54.2
110°	8.6	10.8	28.2	42.3	47.7



TEST NUMBER: P571811  
CATALOG NUMBER: 2APVTLTD-20L850

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	7.6	8.6	22.7	35.8	41.2
115°	7.6	6.5	18.4	30.3	35.8
117.5°	6.5	6.5	15.2	26.0	31.5
120°	5.5	5.5	11.9	21.7	26.0
122.5°	5.5	4.3	8.6	17.4	21.7
125°	4.3	4.3	6.5	14.1	18.4
127.5°	3.3	3.3	4.3	10.8	14.1
130°	3.3	3.3	3.3	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	1.1	2.2	4.3
140°	1.1	1.1	1.1	1.1	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)