

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: P571809

Luminaire Tested: **2APVTLD-20L835**

Issue Date: 9/28/2021

Test Information

Test Method: LM-79-08
Report Number: P571809
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-20L835
Description: 2FT VAPORTIGHT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

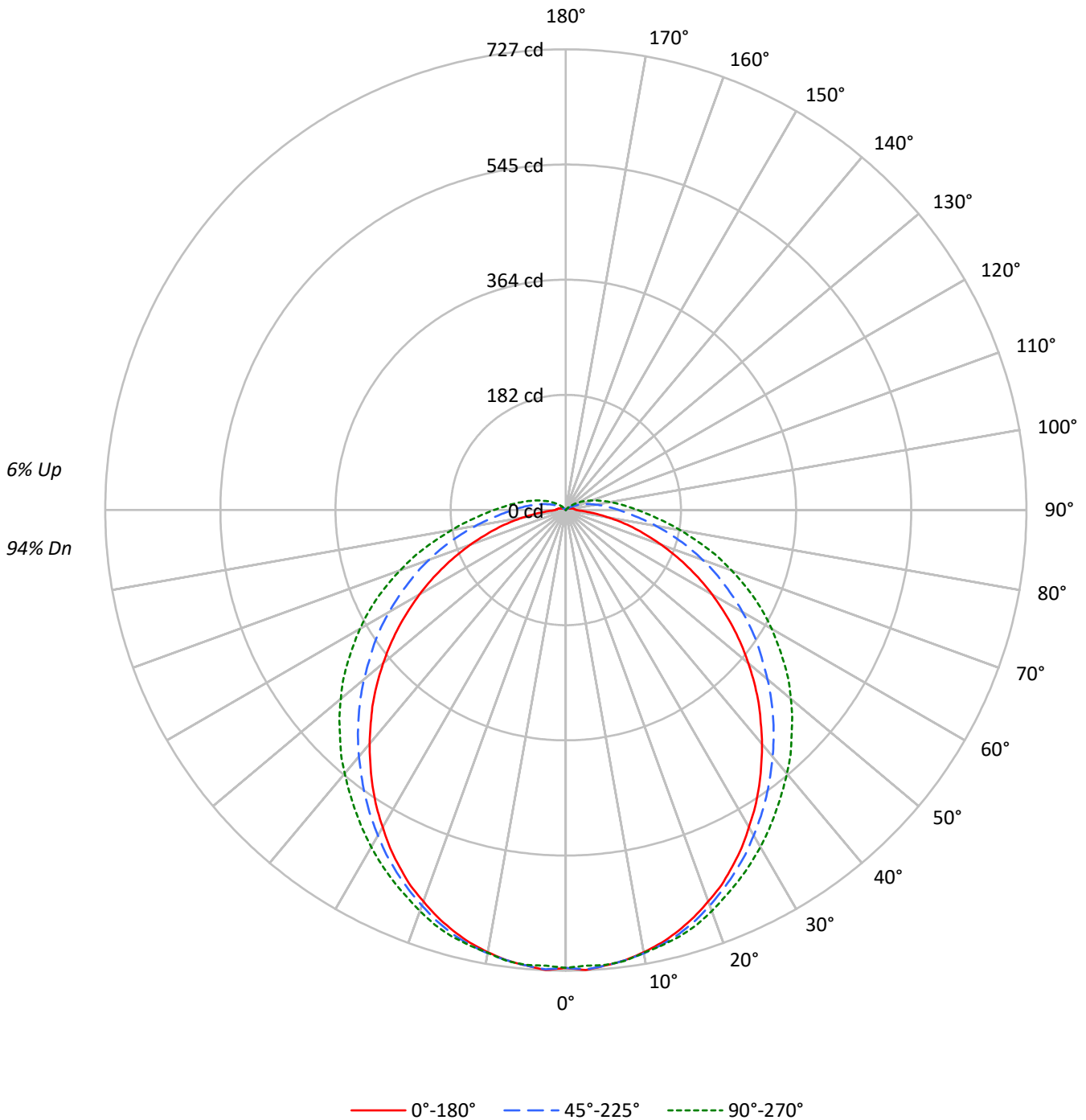
Lumens per Lamp: N/A
Luminaire Lumens: 2282.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')
CIE Type: Direct

Input Watts (W): 19.4
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°	4666	4666	4666
5°	4573	3995	3833
10°	4442	3466	3229
15°	4296	3040	2789
20°	4126	2669	2423
25°	3947	2355	2123
30°	3747	2079	1875
35°	3547	1839	1660
40°	3333	1623	1478
45°	3120	1431	1315
50°	2885	1255	1171
55°	2644	1098	1036
60°	2376	950	909
65°	2086	810	788
70°	1767	682	667
75°	1435	559	555
80°	1041	445	450
85°	635	348	360



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.0
10°-20°	194.2	8.5
20°-30°	290.1	12.7
30°-40°	345.1	15.1
40°-50°	357.2	15.7
50°-60°	329.5	14.4
60°-70°	268.9	11.8
70°-80°	188.8	8.3
80°-90°	111.4	4.9
90°-100°	63.9	2.8
100°-110°	36.2	1.6
110°-120°	18.3	0.8
120°-130°	7.6	0.3
130°-140°	2.3	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°	552.5	24.2
0°-40°	897.7	39.3
0°-60°	1584.4	69.4
0°-90°	2153.5	94.4
90°-120°	118.4	5.2
90°-150°	128.5	5.6
90°-180°	128.0	5.6
0°-180°	2282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	722	718	722	714	721	68
15°	687	684	692	688	696	194
25°	621	620	631	633	645	286
35°	532	535	552	564	579	332
45°	431	436	463	485	504	332
55°	322	333	369	399	420	288
65°	213	232	275	308	328	211
75°	113	140	186	216	230	120
85°	34	68	109	134	144	35
90°	17	46	83	104	113	10
95°	14	32	64	83	90	11
105°	10	15	36	51	56	11
115°	7	6	17	28	33	7
125°	4	4	6	13	17	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°	722.5	722.5	722.5	722.5	722.5
2.5°	726.6	721.5	725.5	715.5	719.6
5°	721.5	717.5	721.5	713.5	720.6
7.5°	716.6	711.5	716.6	709.5	717.5
10°	708.5	705.5	710.5	703.5	709.5
12.5°	699.4	696.5	702.4	695.4	703.5
15°	687.4	684.4	692.4	688.4	696.5
17.5°	673.4	671.4	679.4	677.4	686.5
20°	657.3	656.3	664.3	663.4	673.4
22.5°	641.3	639.2	648.3	648.3	659.3
25°	621.2	620.2	631.2	633.3	645.3
27.5°	601.1	600.1	613.2	617.2	630.2
30°	578.0	580.1	593.0	600.1	614.2
32.5°	555.9	558.0	573.0	582.0	597.1
35°	531.9	534.9	551.9	564.0	579.0
37.5°	506.8	511.8	529.8	544.9	561.0
40°	481.7	486.7	507.8	524.9	542.9
42.5°	455.6	461.6	485.7	504.8	524.9
45°	430.6	436.5	462.6	484.7	503.8
47.5°	403.4	411.5	439.5	464.7	484.7
50°	376.3	385.4	415.5	442.5	463.7
52.5°	349.2	359.3	391.4	421.5	443.5
55°	322.1	333.1	369.3	399.4	420.5
57.5°	294.0	308.1	346.2	377.4	397.4
60°	266.9	282.0	322.1	354.3	375.3
62.5°	239.8	256.9	298.1	331.2	352.2
65°	212.7	231.8	275.0	308.1	328.2
67.5°	185.7	207.8	252.9	285.0	303.0
70°	160.5	183.6	229.8	261.9	278.0
72.5°	135.5	161.6	207.8	238.9	254.9
75°	113.4	140.5	185.7	215.8	229.8
77.5°	90.3	120.4	164.6	191.7	204.8
80°	69.3	101.4	144.5	171.6	183.6
82.5°	50.2	84.3	126.4	151.6	162.6
85°	34.1	68.3	109.4	133.5	143.5
87.5°	22.1	56.2	95.4	118.4	127.4
90°	17.0	46.2	83.3	104.3	113.4
92.5°	15.1	39.2	73.3	92.3	100.3
95°	14.0	32.1	64.2	83.3	90.3
97.5°	13.1	27.1	56.2	74.2	80.3
100°	12.1	22.1	48.1	65.3	71.2
102.5°	11.0	18.0	42.2	58.2	64.2
105°	10.0	15.1	36.1	51.1	56.2
107.5°	9.1	12.1	30.1	44.1	50.2
110°	8.0	10.0	26.1	39.2	44.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.0	8.0	21.0	33.1	38.1
115°	7.0	6.0	17.0	28.1	33.1
117.5°	6.0	6.0	14.0	24.1	29.1
120°	5.1	5.1	11.0	20.1	24.1
122.5°	5.1	4.0	8.0	16.1	20.1
125°	4.0	4.0	6.0	13.1	17.0
127.5°	3.0	3.0	4.0	10.0	13.1
130°	3.0	3.0	3.0	8.0	10.0
132.5°	2.0	2.0	2.0	6.0	8.0
135°	2.0	2.0	2.0	4.0	6.0
137.5°	2.0	2.0	1.0	2.0	4.0
140°	1.0	1.0	1.0	1.0	2.0
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)