

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: P#

Luminaire Tested: **VRVT4S-LD5-15-PCF-L835-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1801-511-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VRVT4S-LD5-15-PCF-L835-CD2-U  
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND FROSTED POLYCARBONATE LENS  
Light Source: -  
Ballast/Driver: -

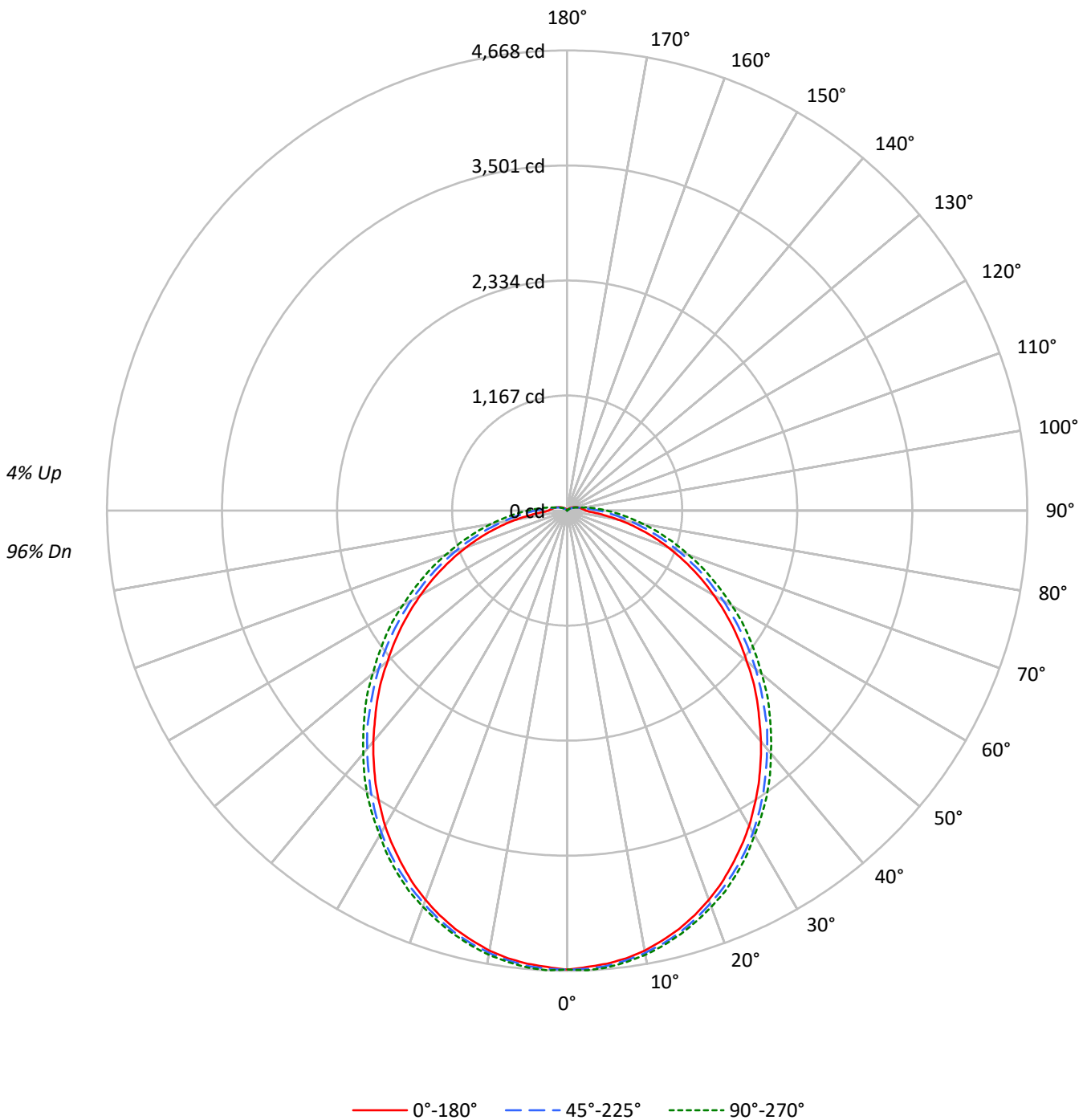
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13285.0 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')  
CIE Type: Direct  
  
Input Watts (W): 108.3  
Input Voltage (V): NR  
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: 25 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	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	102	97	93	104	99	95	91	94	91	88	90	87	85	86	83	81	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	41
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	22216	22216	22216
5°	21872	21734	21840
10°	21504	21149	21303
15°	21020	20503	20694
20°	20449	19764	20035
25°	19753	19004	19334
30°	19029	18175	18483
35°	18192	17239	17706
40°	17308	16272	16784
45°	16425	15275	15917
50°	15433	14300	14979
55°	14553	13261	14125
60°	13581	12206	13148
65°	12559	11124	12168
70°	11408	9980	11156
75°	10120	8800	10230
80°	8516	7685	9316
85°	6708	6701	8598



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.8	3.3
10°-20°	1246.7	9.4
20°-30°	1851.7	13.9
30°-40°	2167.2	16.3
40°-50°	2177.9	16.4
50°-60°	1930.9	14.5
60°-70°	1498.1	11.3
70°-80°	977.2	7.4
80°-90°	510.4	3.8
90°-100°	244.1	1.8
100°-110°	127.1	1.0
110°-120°	69.2	0.5
120°-130°	32.6	0.2
130°-140°	10.0	0.1
140°-150°	1.4	0.0
150°-160°	0.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	3538.3	26.6
0°-40°	5705.5	42.9
0°-60°	9814.3	73.9
0°-90°	12799.9	96.3
90°-120°	440.4	3.3
90°-150°	484.4	3.6
90°-180°	485.0	3.7
0°-180°	13285.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4656	4656	4656	4656	4656	
5°	4614	4620	4636	4647	4652	438
15°	4392	4403	4427	4441	4448	1237
25°	3962	3987	4027	4059	4068	1825
35°	3386	3420	3474	3516	3531	2116
45°	2726	2763	2825	2880	2903	2101
55°	2049	2087	2159	2232	2258	1833
65°	1399	1437	1510	1590	1611	1387
75°	795	832	919	1004	1033	843
85°	291	372	470	552	571	288
90°	188	242	321	383	397	105
95°	163	174	216	261	272	129
105°	120	114	117	119	125	127
115°	81	67	68	64	69	81
125°	49	40	29	30	37	45
135°	26	20	5	6	11	20
145°	7	4	0	0	0	5
155°	2	2	0	0	0	1
165°	2	2	1	0	0	1
175°	3	2	1	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P#

CATALOG NUMBER: VRVT4S-LD5-15-PCF-L835-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4655.9	4655.9	4655.9	4655.9	4655.9
2.5°	4634.1	4640.1	4652.9	4665.8	4667.8
5°	4614.4	4620.3	4636.1	4647.0	4651.9
7.5°	4580.8	4586.7	4601.5	4616.4	4618.3
10°	4532.3	4540.2	4556.1	4572.9	4575.8
12.5°	4466.1	4478.9	4498.7	4513.5	4517.5
15°	4392.0	4402.8	4426.6	4441.4	4448.3
17.5°	4303.0	4316.8	4341.5	4359.3	4367.2
20°	4203.2	4217.0	4243.7	4274.3	4277.3
22.5°	4090.5	4112.2	4140.9	4170.5	4182.4
25°	3962.0	3986.7	4027.2	4058.8	4067.7
27.5°	3831.5	3855.2	3904.6	3937.2	3944.2
30°	3693.1	3718.8	3771.2	3796.9	3801.8
32.5°	3538.9	3568.5	3624.9	3660.5	3669.4
35°	3385.7	3420.3	3473.6	3516.1	3531.0
37.5°	3223.5	3262.1	3313.5	3367.9	3379.7
40°	3058.5	3099.0	3156.3	3206.7	3216.6
42.5°	2886.5	2930.9	3002.1	3042.6	3061.4
45°	2726.3	2762.9	2825.2	2879.5	2903.3
47.5°	2557.3	2593.9	2659.1	2723.4	2750.0
50°	2376.4	2425.8	2496.0	2558.3	2573.1
52.5°	2216.2	2263.7	2325.0	2394.2	2416.9
55°	2049.2	2086.7	2158.9	2232.1	2257.8
57.5°	1883.1	1923.6	1989.9	2064.0	2102.6
60°	1719.0	1757.6	1828.7	1905.9	1928.6
62.5°	1559.9	1599.4	1663.7	1747.7	1770.4
65°	1398.7	1437.3	1509.5	1590.5	1611.3
67.5°	1242.6	1279.1	1353.3	1439.3	1465.0
70°	1087.4	1134.8	1203.0	1283.1	1306.8
72.5°	941.1	982.6	1060.7	1141.7	1169.4
75°	794.8	832.3	919.3	1004.3	1033.0
77.5°	657.4	705.8	790.8	883.7	906.5
80°	520.9	572.3	673.2	762.1	782.9
82.5°	397.4	463.6	566.4	654.4	667.2
85°	290.6	371.7	469.5	551.6	571.4
87.5°	218.5	297.5	393.4	461.6	479.4
90°	187.8	242.2	321.3	382.6	397.4
92.5°	175.0	201.7	263.9	318.3	328.2
95°	163.1	174.0	216.5	261.0	271.8
97.5°	151.2	155.2	181.9	213.5	222.4
100°	140.4	141.4	153.2	176.0	181.9
102.5°	129.5	126.5	131.5	143.3	148.3
105°	119.6	113.7	116.6	118.6	124.6
107.5°	109.7	100.8	102.8	100.8	103.8
110°	99.8	88.0	90.0	87.0	90.0



TEST NUMBER: P#

CATALOG NUMBER: VRVT4S-LD5-15-PCF-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	90.0	77.1	79.1	75.1	79.1
115°	81.1	67.2	68.2	64.3	69.2
117.5°	73.1	60.3	57.3	54.4	60.3
120°	64.3	52.4	47.4	45.5	52.4
122.5°	57.3	46.5	37.6	37.6	44.5
125°	49.4	40.5	28.7	29.7	36.6
127.5°	43.5	34.6	20.8	23.7	29.7
130°	37.6	29.7	12.9	17.8	23.7
132.5°	30.6	23.7	7.9	11.9	16.8
135°	25.7	19.8	4.9	5.9	10.9
137.5°	20.8	14.8	2.0	1.0	4.9
140°	15.8	10.9	1.0	0.0	0.0
142.5°	10.9	6.9	0.0	0.0	0.0
145°	6.9	4.0	0.0	0.0	0.0
147.5°	4.0	2.0	0.0	0.0	0.0
150°	2.0	1.0	0.0	0.0	0.0
152.5°	2.0	1.0	0.0	0.0	0.0
155°	2.0	2.0	0.0	0.0	0.0
157.5°	2.0	2.0	1.0	0.0	0.0
160°	2.0	2.0	1.0	0.0	0.0
162.5°	2.0	2.0	1.0	0.0	0.0
165°	2.0	2.0	1.0	0.0	0.0
167.5°	2.0	2.0	1.0	0.0	0.0
170°	2.0	2.0	1.0	0.0	0.0
172.5°	2.0	2.0	1.0	0.0	0.0
175°	3.0	2.0	1.0	0.0	0.0
177.5°	3.0	2.0	1.0	0.0	0.0
180°	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)