

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-LD5-12-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-LD5-12-PCF-L835-CD2-U  
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND FROSTED POLYCARBONATE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

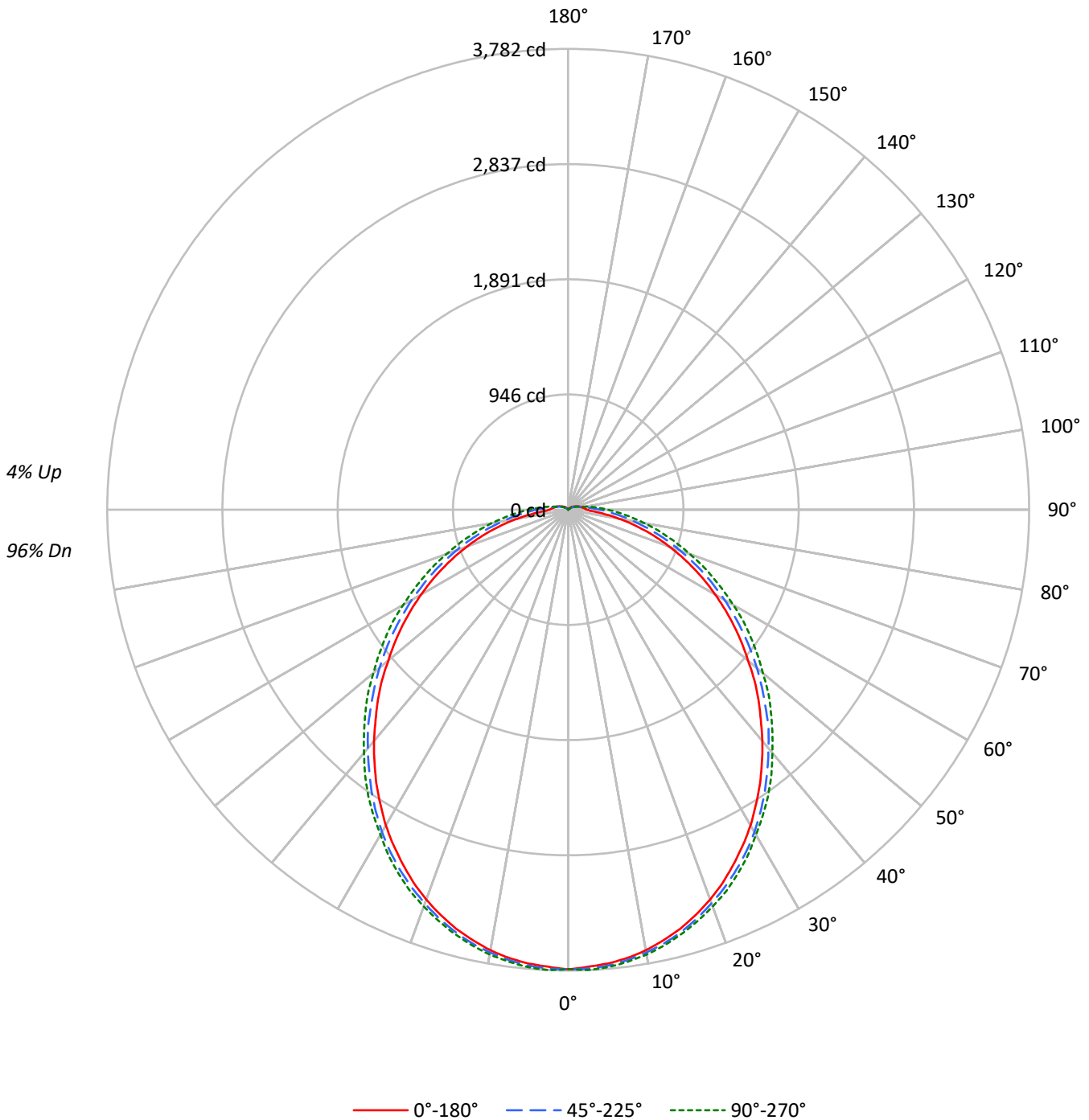
Lumens per Lamp: N/A  
Luminaire Lumens: 10763.0 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 83.9  
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°	17998	17998	17998
5°	17720	17608	17694
10°	17422	17134	17259
15°	17029	16611	16765
20°	16567	16012	16232
25°	16003	15396	15664
30°	15417	14724	14974
35°	14739	13966	14345
40°	14021	13183	13598
45°	13308	12375	12895
50°	12503	11586	12136
55°	11790	10744	11444
60°	11003	9889	10652
65°	10175	9012	9858
70°	9242	8085	9038
75°	8198	7130	8288
80°	6901	6226	7548
85°	5436	5429	6965



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.3	3.3
10°-20°	1010.1	9.4
20°-30°	1500.2	13.9
30°-40°	1755.8	16.3
40°-50°	1764.4	16.4
50°-60°	1564.3	14.5
60°-70°	1213.7	11.3
70°-80°	791.7	7.4
80°-90°	413.5	3.8
90°-100°	197.8	1.8
100°-110°	103.0	1.0
110°-120°	56.1	0.5
120°-130°	26.4	0.2
130°-140°	8.1	0.1
140°-150°	1.1	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	2866.6	26.6
0°-40°	4622.4	42.9
0°-60°	7951.2	73.9
0°-90°	10370.0	96.3
90°-120°	356.8	3.3
90°-150°	392.4	3.6
90°-180°	393.0	3.7
0°-180°	10763.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3772	3772	3772	3772	3772	
5°	3738	3743	3756	3765	3769	355
15°	3558	3567	3586	3598	3604	1003
25°	3210	3230	3263	3288	3296	1479
35°	2743	2771	2814	2849	2861	1714
45°	2209	2238	2289	2333	2352	1702
55°	1660	1691	1749	1808	1829	1485
65°	1133	1164	1223	1289	1305	1123
75°	644	674	745	814	837	683
85°	236	301	380	447	463	233
90°	152	196	260	310	322	85
95°	132	141	175	211	220	104
105°	97	92	94	96	101	103
115°	66	54	55	52	56	66
125°	40	33	23	24	30	37
135°	21	16	4	5	9	16
145°	6	3	0	0	0	4
155°	2	2	0	0	0	1
165°	2	2	1	0	0	0
175°	2	2	1	0	0	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3772.0	3772.0	3772.0	3772.0	3772.0
2.5°	3754.4	3759.2	3769.6	3780.0	3781.6
5°	3738.4	3743.2	3756.0	3764.8	3768.8
7.5°	3711.2	3716.0	3728.0	3740.0	3741.6
10°	3671.9	3678.3	3691.1	3704.8	3707.2
12.5°	3618.3	3628.7	3644.7	3656.7	3659.9
15°	3558.2	3567.0	3586.2	3598.2	3603.8
17.5°	3486.1	3497.3	3517.4	3531.8	3538.2
20°	3405.2	3416.4	3438.1	3462.9	3465.3
22.5°	3313.9	3331.6	3354.8	3378.8	3388.4
25°	3209.8	3229.8	3262.7	3288.3	3295.5
27.5°	3104.1	3123.3	3163.4	3189.8	3195.4
30°	2992.0	3012.8	3055.3	3076.1	3080.1
32.5°	2867.1	2891.1	2936.7	2965.6	2972.8
35°	2742.9	2771.0	2814.2	2848.6	2860.7
37.5°	2611.6	2642.8	2684.5	2728.5	2738.1
40°	2477.8	2510.7	2557.1	2598.0	2606.0
42.5°	2338.5	2374.5	2432.2	2465.0	2480.2
45°	2208.8	2238.4	2288.8	2332.9	2352.1
47.5°	2071.8	2101.4	2154.3	2206.4	2228.0
50°	1925.3	1965.3	2022.2	2072.6	2084.6
52.5°	1795.5	1834.0	1883.6	1939.7	1958.1
55°	1660.2	1690.6	1749.1	1808.3	1829.2
57.5°	1525.6	1558.5	1612.1	1672.2	1703.4
60°	1392.7	1423.9	1481.6	1544.0	1562.5
62.5°	1263.7	1295.8	1347.8	1415.9	1434.3
65°	1133.2	1164.4	1222.9	1288.6	1305.4
67.5°	1006.7	1036.3	1096.4	1166.0	1186.9
70°	880.9	919.4	974.6	1039.5	1058.7
72.5°	762.4	796.0	859.3	925.0	947.4
75°	643.9	674.3	744.8	813.7	836.9
77.5°	532.6	571.8	640.7	716.0	734.4
80°	422.1	463.7	545.4	617.5	634.3
82.5°	321.9	375.6	458.9	530.2	540.6
85°	235.5	301.1	380.4	446.9	462.9
87.5°	177.0	241.1	318.7	374.0	388.4
90°	152.2	196.2	260.3	309.9	321.9
92.5°	141.8	163.4	213.8	257.9	265.9
95°	132.1	141.0	175.4	211.4	220.2
97.5°	122.5	125.7	147.4	173.0	180.2
100°	113.7	114.5	124.1	142.6	147.4
102.5°	104.9	102.5	106.5	116.1	120.1
105°	96.9	92.1	94.5	96.1	100.9
107.5°	88.9	81.7	83.3	81.7	84.1
110°	80.9	71.3	72.9	70.5	72.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	72.9	62.5	64.1	60.9	64.1
115°	65.7	54.5	55.3	52.1	56.1
117.5°	59.3	48.9	46.4	44.0	48.9
120°	52.1	42.4	38.4	36.8	42.4
122.5°	46.4	37.6	30.4	30.4	36.0
125°	40.0	32.8	23.2	24.0	29.6
127.5°	35.2	28.0	16.8	19.2	24.0
130°	30.4	24.0	10.4	14.4	19.2
132.5°	24.8	19.2	6.4	9.6	13.6
135°	20.8	16.0	4.0	4.8	8.8
137.5°	16.8	12.0	1.6	0.8	4.0
140°	12.8	8.8	0.8	0.0	0.0
142.5°	8.8	5.6	0.0	0.0	0.0
145°	5.6	3.2	0.0	0.0	0.0
147.5°	3.2	1.6	0.0	0.0	0.0
150°	1.6	0.8	0.0	0.0	0.0
152.5°	1.6	0.8	0.0	0.0	0.0
155°	1.6	1.6	0.0	0.0	0.0
157.5°	1.6	1.6	0.8	0.0	0.0
160°	1.6	1.6	0.8	0.0	0.0
162.5°	1.6	1.6	0.8	0.0	0.0
165°	1.6	1.6	0.8	0.0	0.0
167.5°	1.6	1.6	0.8	0.0	0.0
170°	1.6	1.6	0.8	0.0	0.0
172.5°	1.6	1.6	0.8	0.0	0.0
175°	2.4	1.6	0.8	0.0	0.0
177.5°	2.4	1.6	0.8	0.0	0.0
180°	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)