

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-LD5-9-PC-L850-CD1-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 (G3-1801-511-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VRVT4S-LD5-9-PC-L850-CD1-U  
Description: VRVT4S VAPORTIGHT FIXTURE WITH 5000K LED AND CLEAR POLYCARBONATE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

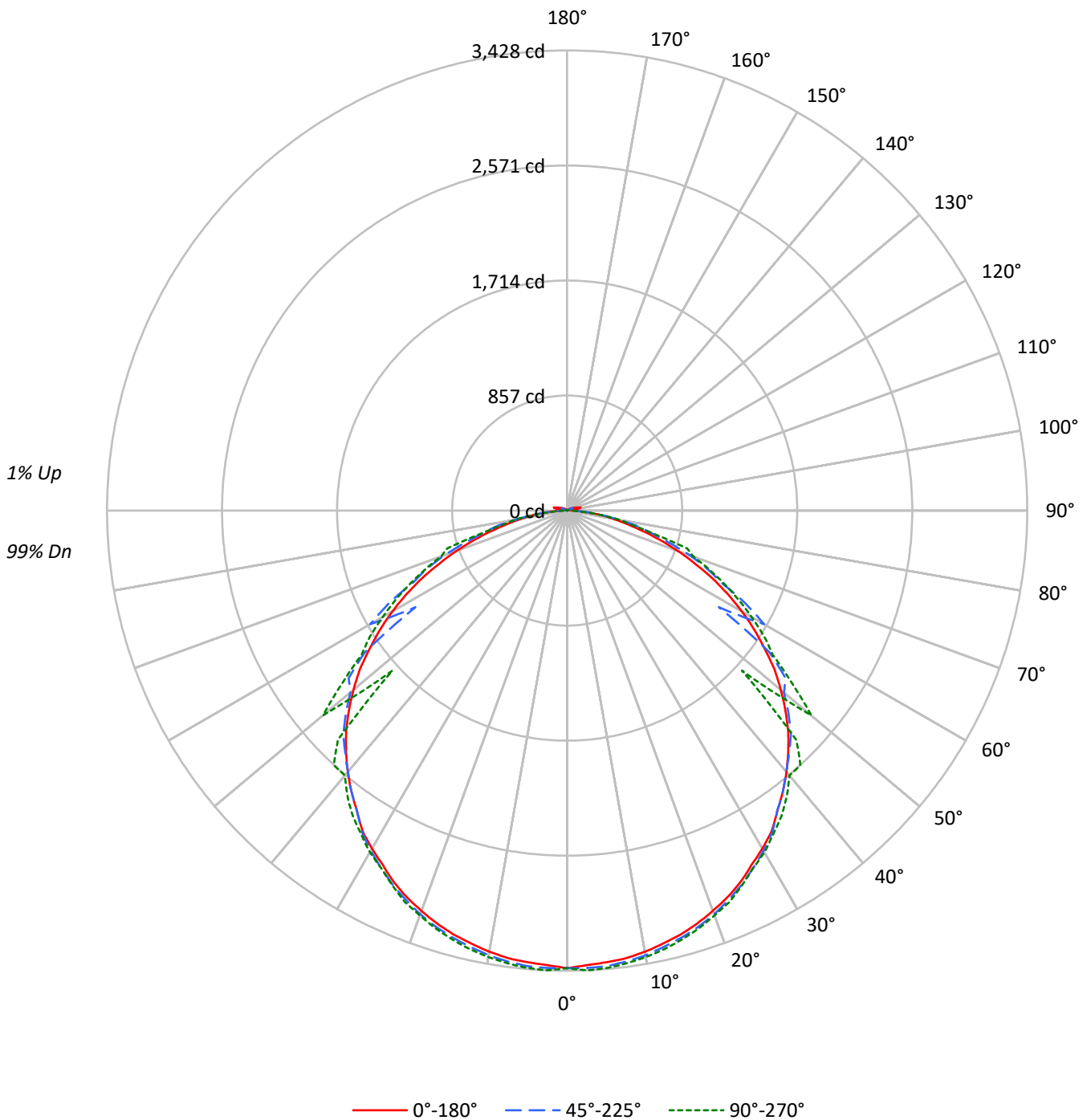
Lumens per Lamp: N/A  
Luminaire Lumens: 10029.9 lumens  
Efficiency: N/A  
Efficacy: 163.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 61.5  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

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

	0°	45°	90°
0°	16263	16263	16263
5°	16010	15969	16059
10°	15832	15614	15722
15°	15643	15255	15389
20°	15437	14899	15032
25°	15229	14512	14643
30°	14981	14099	14291
35°	14670	13546	13952
40°	14382	13096	13444
45°	14031	12747	13237
50°	13491	12078	13823
55°	12768	11306	11691
60°	11884	11304	10820
65°	10720	9311	9749
70°	9206	8045	8525
75°	7324	6191	6537
80°	5598	4405	4656
85°	3566	2252	1973



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.5	3.2
10°-20°	929.5	9.3
20°-30°	1415.6	14.1
30°-40°	1722.4	17.2
40°-50°	1794.0	17.9
50°-60°	1639.7	16.3
60°-70°	1248.6	12.4
70°-80°	677.7	6.8
80°-90°	186.6	1.9
90°-100°	23.9	0.2
100°-110°	32.5	0.3
110°-120°	21.7	0.2
120°-130°	8.3	0.1
130°-140°	3.4	0.0
140°-150°	1.0	0.0
150°-160°	0.6	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	2668.7	26.6
0°-40°	4391.1	43.8
0°-60°	7824.8	78.0
0°-90°	9937.8	99.1
90°-120°	78.1	0.8
90°-150°	90.9	0.9
90°-180°	92.0	0.9
0°-180°	10029.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3408	3408	3408	3408	3408	
5°	3378	3392	3406	3419	3420	321
15°	3269	3284	3293	3306	3308	923
25°	3055	3070	3075	3081	3081	1407
35°	2730	2750	2730	2763	2782	1712
45°	2329	2334	2358	2469	2414	1792
55°	1798	1803	1841	1965	1869	1608
65°	1194	1230	1263	1290	1291	1178
75°	575	639	647	660	660	620
85°	154	168	158	131	131	166
90°	31	44	42	38	37	22
95°	25	20	21	12	11	36
105°	89	115	11	12	11	91
115°	46	29	46	6	6	46
125°	21	15	6	1	2	19
135°	9	7	3	1	1	7
145°	3	1	1	1	1	2
155°	1	1	1	1	1	1
165°	2	2	2	2	2	1
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3408.4	3408.4	3408.4	3408.4	3408.4
2.5°	3389.0	3399.7	3411.1	3423.1	3427.8
5°	3377.7	3391.7	3406.4	3419.1	3420.5
7.5°	3363.6	3377.7	3387.7	3398.4	3401.7
10°	3336.9	3356.9	3363.6	3371.0	3377.0
12.5°	3304.1	3322.8	3328.8	3343.5	3346.9
15°	3268.6	3284.0	3293.4	3306.1	3308.1
17.5°	3225.2	3240.5	3251.2	3258.6	3263.3
20°	3173.0	3185.7	3199.1	3204.4	3209.1
22.5°	3118.8	3126.8	3139.6	3148.2	3156.3
25°	3054.6	3070.0	3075.3	3080.7	3080.7
27.5°	2975.7	2998.4	3002.4	2994.4	3001.1
30°	2907.5	2922.8	2925.5	2916.2	2939.6
32.5°	2835.2	2835.9	2843.9	2841.9	2857.3
35°	2730.2	2749.6	2729.5	2763.0	2782.4
37.5°	2640.6	2656.6	2639.9	2690.8	2687.4
40°	2541.6	2557.0	2540.3	2583.7	2576.4
42.5°	2437.9	2451.3	2447.3	2467.4	2572.4
45°	2328.9	2334.3	2357.7	2469.4	2414.5
47.5°	2205.8	2210.5	2235.3	2195.1	1765.7
50°	2077.4	2082.1	2108.2	1658.7	2374.4
52.5°	1947.7	1941.0	2050.7	2230.6	2111.5
55°	1797.9	1803.2	1840.7	1965.1	1868.7
57.5°	1654.0	1666.1	1340.4	1729.0	1738.3
60°	1504.2	1526.3	1693.5	1582.5	1587.2
62.5°	1349.1	1386.5	1497.5	1436.7	1441.4
65°	1193.9	1230.0	1263.4	1289.5	1290.9
67.5°	1028.7	1084.2	1127.0	1117.0	1144.4
70°	877.5	852.1	969.8	966.5	998.6
72.5°	721.0	783.2	796.6	691.6	937.0
75°	575.2	639.4	646.8	660.1	660.1
77.5°	445.4	482.9	538.4	512.3	493.6
80°	342.4	353.1	385.9	398.0	391.3
82.5°	254.8	240.1	266.2	277.6	251.5
85°	154.5	167.9	157.8	131.1	131.1
87.5°	63.5	80.3	70.9	64.9	57.5
90°	30.8	44.1	41.5	38.1	36.8
92.5°	32.1	30.8	22.1	15.4	12.0
95°	24.7	20.1	21.4	12.0	11.4
97.5°	46.8	14.7	14.7	10.7	8.7
100°	86.9	12.7	13.4	10.7	7.4
102.5°	103.7	18.7	13.4	10.7	10.7
105°	89.0	115.0	11.4	12.0	10.7
107.5°	75.6	52.2	8.7	10.7	12.0
110°	63.5	36.8	7.4	10.0	11.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.5	27.4	7.4	7.4	10.0
115°	46.2	28.8	45.5	6.0	6.0
117.5°	38.8	45.5	20.1	4.7	6.0
120°	31.4	26.1	12.0	6.0	4.0
122.5°	24.7	19.4	8.0	2.0	4.0
125°	20.7	15.4	6.0	1.3	2.0
127.5°	16.7	12.7	4.0	1.3	1.3
130°	13.4	12.0	2.7	1.3	1.3
132.5°	11.4	8.7	7.4	1.3	1.3
135°	8.7	6.7	2.7	1.3	1.3
137.5°	6.7	5.4	2.0	1.3	1.3
140°	5.4	4.0	1.3	1.3	0.7
142.5°	4.0	2.7	1.3	1.3	0.7
145°	2.7	1.3	1.3	1.3	0.7
147.5°	2.0	1.3	1.3	1.3	1.3
150°	1.3	1.3	1.3	1.3	1.3
152.5°	1.3	1.3	1.3	1.3	1.3
155°	1.3	1.3	1.3	1.3	1.3
157.5°	1.3	1.3	1.3	1.3	1.3
160°	1.3	1.3	1.3	1.3	1.3
162.5°	2.0	2.0	2.0	2.0	1.3
165°	2.0	2.0	2.0	2.0	2.0
167.5°	2.0	2.0	2.0	2.0	2.0
170°	2.0	2.0	2.0	2.0	2.0
172.5°	2.0	2.0	2.0	2.0	2.0
175°	2.0	2.0	2.0	2.0	2.0
177.5°	2.0	2.0	2.0	2.0	2.0
180°	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)