

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-L835-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-L835-CD1-U  
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND CLEAR POLYCARBONATE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9223.9 lumens  
Efficiency: N/A  
Efficacy: 150.0 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

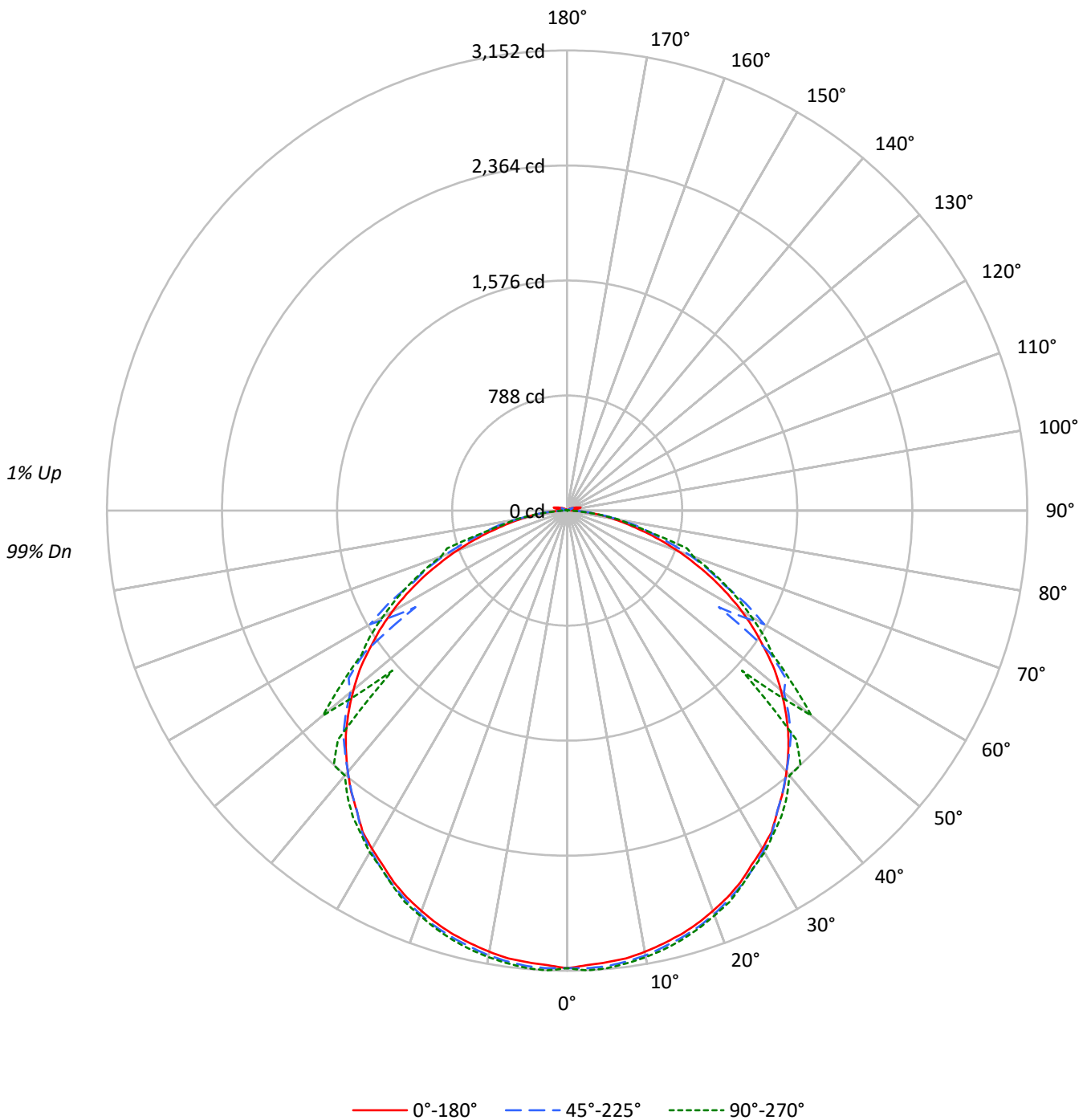
Input Watts (W): 61.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	14956	14956	14956
5°	14723	14686	14768
10°	14560	14359	14458
15°	14386	14029	14153
20°	14197	13701	13824
25°	14005	13346	13466
30°	13777	12966	13143
35°	13491	12458	12831
40°	13227	12044	12363
45°	12904	11722	12174
50°	12407	11108	12712
55°	11742	10397	10752
60°	10930	10395	9950
65°	9858	8563	8965
70°	8467	7399	7839
75°	6735	5694	6012
80°	5148	4051	4281
85°	3280	2072	1815



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.5	3.2
10°-20°	854.8	9.3
20°-30°	1301.9	14.1
30°-40°	1584.0	17.2
40°-50°	1649.8	17.9
50°-60°	1507.9	16.3
60°-70°	1148.3	12.4
70°-80°	623.3	6.8
80°-90°	171.7	1.9
90°-100°	22.0	0.2
100°-110°	29.9	0.3
110°-120°	19.9	0.2
120°-130°	7.7	0.1
130°-140°	3.1	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°	2454.2	26.6
0°-40°	4038.2	43.8
0°-60°	7196.0	78.0
0°-90°	9139.2	99.1
90°-120°	71.8	0.8
90°-150°	83.5	0.9
90°-180°	85.0	0.9
0°-180°	9223.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3134	3134	3134	3134	3134	
5°	3106	3119	3133	3144	3146	295
15°	3006	3020	3029	3040	3042	849
25°	2809	2823	2828	2833	2833	1294
35°	2511	2529	2510	2541	2559	1574
45°	2142	2147	2168	2271	2220	1648
55°	1653	1658	1693	1807	1719	1479
65°	1098	1131	1162	1186	1187	1083
75°	529	588	595	607	607	570
85°	142	154	145	121	121	153
90°	28	41	38	35	34	20
95°	23	18	20	11	10	33
105°	82	106	10	11	10	84
115°	42	26	42	6	6	43
125°	19	14	6	1	2	18
135°	8	6	2	1	1	7
145°	2	1	1	1	1	2
155°	1	1	1	1	1	1
165°	2	2	2	2	2	0
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°	3134.5	3134.5	3134.5	3134.5	3134.5
2.5°	3116.7	3126.5	3137.0	3148.1	3152.4
5°	3106.2	3119.2	3132.7	3144.4	3145.6
7.5°	3093.3	3106.2	3115.5	3125.3	3128.4
10°	3068.7	3087.2	3093.3	3100.1	3105.6
12.5°	3038.6	3055.8	3061.3	3074.9	3077.9
15°	3006.0	3020.1	3028.7	3040.4	3042.3
17.5°	2966.0	2980.1	2990.0	2996.7	3001.1
20°	2918.0	2929.7	2942.0	2946.9	2951.2
22.5°	2868.2	2875.6	2887.3	2895.3	2902.6
25°	2809.1	2823.3	2828.2	2833.1	2833.1
27.5°	2736.6	2757.5	2761.2	2753.8	2759.9
30°	2673.8	2688.0	2690.4	2681.8	2703.3
32.5°	2607.4	2608.0	2615.4	2613.5	2627.7
35°	2510.8	2528.7	2510.2	2541.0	2558.8
37.5°	2428.4	2443.2	2427.8	2474.5	2471.5
40°	2337.4	2351.5	2336.1	2376.1	2369.3
42.5°	2242.0	2254.3	2250.6	2269.1	2365.7
45°	2141.8	2146.7	2168.2	2270.9	2220.5
47.5°	2028.6	2032.9	2055.7	2018.7	1623.9
50°	1910.5	1914.8	1938.8	1525.4	2183.6
52.5°	1791.2	1785.0	1885.9	2051.3	1941.9
55°	1653.4	1658.3	1692.7	1807.2	1718.6
57.5°	1521.1	1532.2	1232.7	1590.0	1598.6
60°	1383.4	1403.6	1557.4	1455.3	1459.6
62.5°	1240.6	1275.1	1377.2	1321.2	1325.5
65°	1097.9	1131.2	1161.9	1185.9	1187.1
67.5°	946.0	997.1	1036.4	1027.2	1052.4
70°	807.0	783.6	891.9	888.8	918.3
72.5°	663.1	720.3	732.6	636.0	861.7
75°	529.0	588.0	594.8	607.1	607.1
77.5°	409.7	444.1	495.2	471.2	453.9
80°	314.9	324.8	354.9	366.0	359.8
82.5°	234.4	220.8	244.8	255.3	231.3
85°	142.1	154.4	145.2	120.6	120.6
87.5°	58.4	73.8	65.2	59.7	52.9
90°	28.3	40.6	38.1	35.1	33.8
92.5°	29.5	28.3	20.3	14.1	11.1
95°	22.8	18.5	19.7	11.1	10.5
97.5°	43.1	13.5	13.5	9.8	8.0
100°	80.0	11.7	12.3	9.8	6.8
102.5°	95.3	17.2	12.3	9.8	9.8
105°	81.8	105.8	10.5	11.1	9.8
107.5°	69.5	48.0	8.0	9.8	11.1
110°	58.4	33.8	6.8	9.2	10.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	49.2	25.2	6.8	6.8	9.2
115°	42.4	26.4	41.8	5.5	5.5
117.5°	35.7	41.8	18.5	4.3	5.5
120°	28.9	24.0	11.1	5.5	3.7
122.5°	22.8	17.8	7.4	1.8	3.7
125°	19.1	14.1	5.5	1.2	1.8
127.5°	15.4	11.7	3.7	1.2	1.2
130°	12.3	11.1	2.5	1.2	1.2
132.5°	10.5	8.0	6.8	1.2	1.2
135°	8.0	6.2	2.5	1.2	1.2
137.5°	6.2	4.9	1.8	1.2	1.2
140°	4.9	3.7	1.2	1.2	0.6
142.5°	3.7	2.5	1.2	1.2	0.6
145°	2.5	1.2	1.2	1.2	0.6
147.5°	1.8	1.2	1.2	1.2	1.2
150°	1.2	1.2	1.2	1.2	1.2
152.5°	1.2	1.2	1.2	1.2	1.2
155°	1.2	1.2	1.2	1.2	1.2
157.5°	1.2	1.2	1.2	1.2	1.2
160°	1.2	1.2	1.2	1.2	1.2
162.5°	1.8	1.8	1.8	1.8	1.2
165°	1.8	1.8	1.8	1.8	1.8
167.5°	1.8	1.8	1.8	1.8	1.8
170°	1.8	1.8	1.8	1.8	1.8
172.5°	1.8	1.8	1.8	1.8	1.8
175°	1.8	1.8	1.8	1.8	1.8
177.5°	1.8	1.8	1.8	1.8	1.8
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)