

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-DR-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 (G3-1801-511-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VRVT4S-LD5-15-DR-L835-CD2-U  
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND CLEAR ACRYLIC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

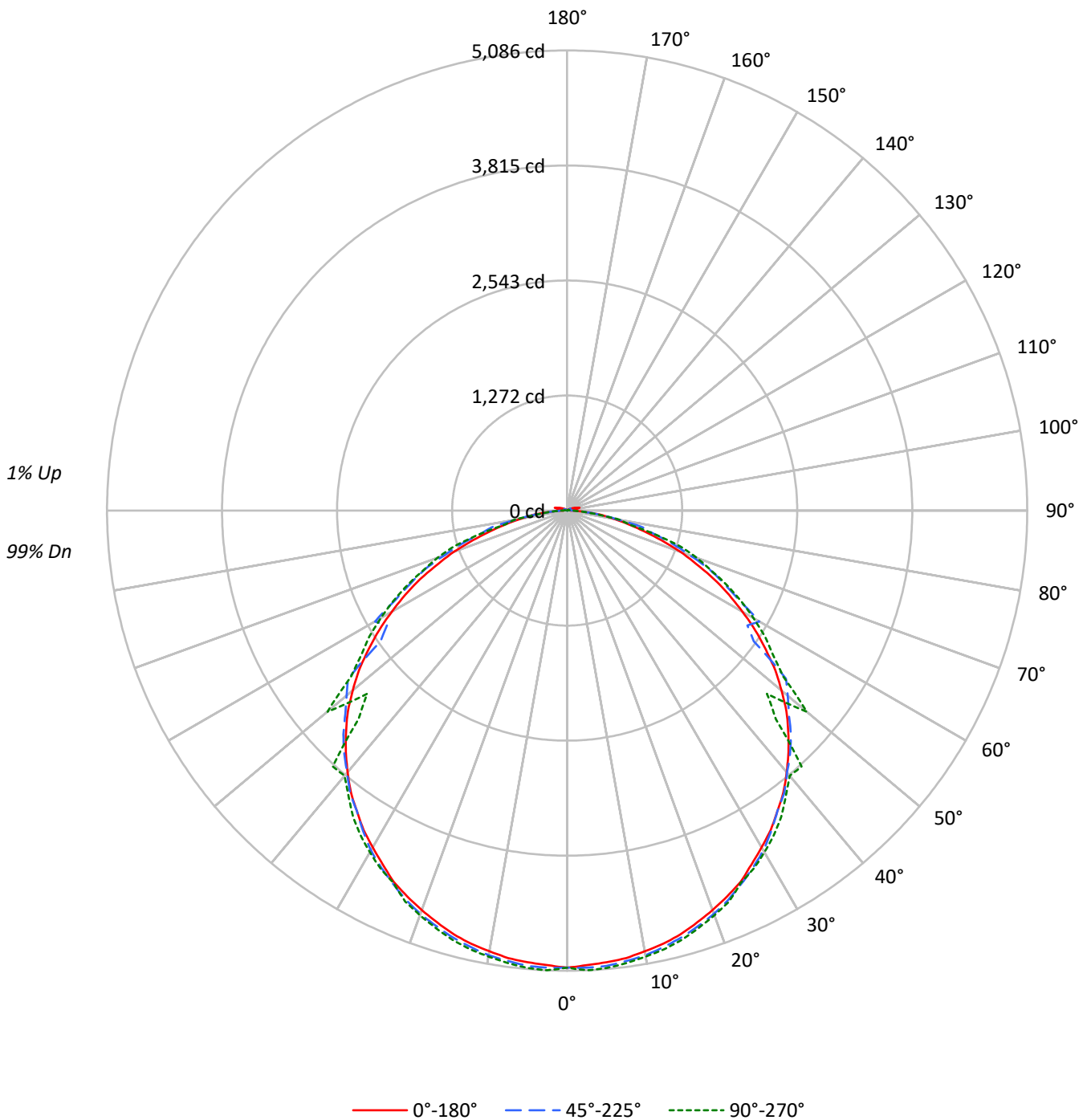
Lumens per Lamp: N/A  
Luminaire Lumens: 14925.0 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 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	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		84	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	51	46		57	50	45		55	49	45	42
6	70	56	47	41	68	55	47	40		53	46	40		51	45	39		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	31		43	36	31		42	35	31	29
9	56	42	34	29	54	42	34	29		41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26		38	31	26		37	30	25		36	30	25	24

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

	0°	45°	90°
0°	24107	24107	24107
5°	23752	23678	23817
10°	23467	23165	23300
15°	23199	22622	22839
20°	22857	22087	22289
25°	22592	21487	21583
30°	22144	20903	21203
35°	21778	20114	20698
40°	21362	19494	19971
45°	20829	18915	17882
50°	20089	18232	20126
55°	19034	15468	17355
60°	17674	16363	16214
65°	16064	14097	14674
70°	13968	11968	12994
75°	11105	9459	9708
80°	8546	6475	7052
85°	5392	3084	3131



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.9	3.2
10°-20°	1378.2	9.2
20°-30°	2097.7	14.1
30°-40°	2555.5	17.1
40°-50°	2669.0	17.9
50°-60°	2441.7	16.4
60°-70°	1864.8	12.5
70°-80°	1016.7	6.8
80°-90°	274.7	1.8
90°-100°	42.0	0.3
100°-110°	51.1	0.3
110°-120°	30.7	0.2
120°-130°	14.6	0.1
130°-140°	5.0	0.0
140°-150°	1.5	0.0
150°-160°	0.7	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	3955.8	26.5
0°-40°	6511.2	43.6
0°-60°	11622.0	77.9
0°-90°	14778.1	99.0
90°-120°	123.9	0.8
90°-150°	145.0	1.0
90°-180°	147.0	1.0
0°-180°	14925.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5052	5052	5052	5052	5052	
5°	5011	5032	5051	5068	5073	477
15°	4847	4866	4884	4901	4909	1368
25°	4531	4546	4554	4566	4541	2084
35°	4053	4075	4053	4106	4128	2538
45°	3457	3473	3498	3678	3262	2665
55°	2680	2696	2518	2793	2774	2395
65°	1789	1843	1913	1919	1943	1765
75°	872	939	988	987	980	944
85°	234	235	216	210	208	255
90°	40	67	64	62	60	30
95°	38	35	36	30	30	45
105°	122	162	21	22	22	122
115°	60	30	40	14	16	62
125°	27	22	11	6	8	25
135°	13	10	5	3	3	10
145°	5	3	2	2	2	3
155°	2	2	2	2	2	1
165°	3	3	3	3	2	1
175°	3	3	3	3	3	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5052.4	5052.4	5052.4	5052.4	5052.4
2.5°	5028.5	5041.3	5057.1	5079.4	5085.7
5°	5011.1	5031.7	5050.8	5068.3	5073.0
7.5°	4988.8	5014.2	5022.2	5044.4	5044.4
10°	4945.9	4974.5	4990.4	5004.7	5004.7
12.5°	4904.6	4925.3	4939.6	4957.0	4965.0
15°	4847.4	4866.5	4884.0	4901.4	4909.4
17.5°	4774.3	4804.5	4815.6	4829.9	4836.3
20°	4698.1	4726.7	4742.6	4755.3	4758.4
22.5°	4617.0	4639.3	4655.2	4659.9	4677.4
25°	4531.3	4545.6	4553.5	4566.2	4540.8
27.5°	4410.5	4437.5	4448.6	4437.5	4462.9
30°	4297.7	4324.7	4337.4	4340.6	4361.2
32.5°	4186.5	4205.5	4199.2	4223.0	4253.2
35°	4053.0	4075.3	4053.0	4105.5	4127.7
37.5°	3927.5	3938.6	3940.2	3992.6	3970.4
40°	3775.0	3789.3	3781.3	3814.7	3827.4
42.5°	3620.9	3633.6	3647.9	3673.3	3835.4
45°	3457.2	3473.1	3498.5	3678.1	3261.8
47.5°	3287.2	3290.4	3323.8	3048.9	2996.5
50°	3093.4	3091.8	3182.4	2894.8	3457.2
52.5°	2899.6	2898.0	3048.9	3185.5	3007.6
55°	2680.3	2696.2	2518.2	2793.1	2774.0
57.5°	2467.4	2481.7	2361.0	2551.6	2592.9
60°	2237.0	2292.6	2451.5	2376.8	2378.4
62.5°	2017.8	2067.0	2136.9	2160.8	2170.3
65°	1789.0	1843.0	1912.9	1919.3	1943.1
67.5°	1545.9	1623.8	1708.0	1696.8	1719.1
70°	1331.4	1236.1	1442.6	1452.2	1522.1
72.5°	1089.9	1204.3	1220.2	1016.8	1309.2
75°	872.2	939.0	988.2	986.6	980.3
77.5°	691.1	735.6	854.8	769.0	695.9
80°	522.7	535.4	567.2	564.0	592.6
82.5°	394.0	375.0	386.1	381.3	336.8
85°	233.6	235.1	216.1	209.7	208.1
87.5°	96.9	108.0	104.9	100.1	108.0
90°	39.7	66.7	63.6	62.0	60.4
92.5°	44.5	47.7	44.5	38.1	33.4
95°	38.1	35.0	36.5	30.2	30.2
97.5°	52.4	28.6	28.6	25.4	23.8
100°	104.9	25.4	27.0	22.2	22.2
102.5°	139.8	27.0	23.8	22.2	23.8
105°	122.3	162.1	20.7	22.2	22.2
107.5°	103.3	95.3	19.1	20.7	22.2
110°	87.4	58.8	15.9	19.1	20.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	71.5	41.3	14.3	15.9	19.1
115°	60.4	30.2	39.7	14.3	15.9
117.5°	50.8	31.8	42.9	12.7	14.3
120°	41.3	65.1	22.2	11.1	11.1
122.5°	33.4	30.2	15.9	7.9	9.5
125°	27.0	22.2	11.1	6.4	7.9
127.5°	22.2	17.5	7.9	4.8	6.4
130°	19.1	15.9	4.8	4.8	4.8
132.5°	15.9	12.7	4.8	3.2	4.8
135°	12.7	9.5	4.8	3.2	3.2
137.5°	9.5	7.9	3.2	3.2	3.2
140°	7.9	4.8	1.6	1.6	1.6
142.5°	6.4	4.8	1.6	1.6	1.6
145°	4.8	3.2	1.6	1.6	1.6
147.5°	3.2	1.6	1.6	1.6	1.6
150°	1.6	1.6	1.6	1.6	1.6
152.5°	1.6	1.6	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	1.6
157.5°	1.6	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6
162.5°	3.2	3.2	3.2	3.2	1.6
165°	3.2	3.2	3.2	3.2	1.6
167.5°	3.2	3.2	3.2	3.2	1.6
170°	3.2	3.2	3.2	3.2	1.6
172.5°	3.2	3.2	3.2	3.2	3.2
175°	3.2	3.2	3.2	3.2	3.2
177.5°	3.2	3.2	3.2	3.2	3.2
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)