

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-DRF-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 (G3-1801-511-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VRVT4S-LD5-15-DRF-L835-CD2-U  
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND FROSTED ACRYLIC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

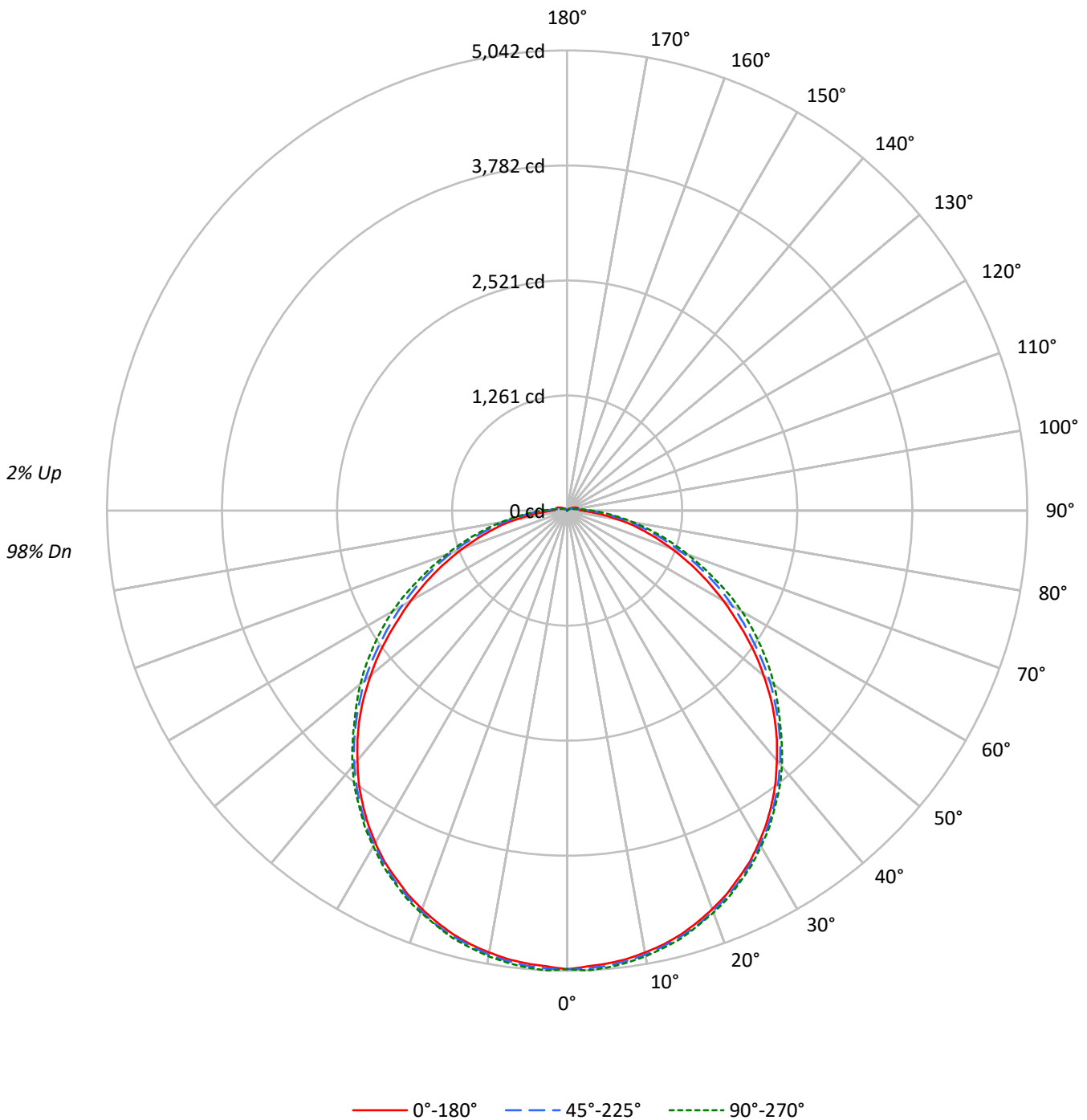
Lumens per Lamp: N/A  
Luminaire Lumens: 14651.0 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')  
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	100	100	100	98	
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	87	85	83	81	
2	98	89	82	77	95	87	81	75	83	78	73	80	75	71	76	73	69	76	73	69	67	
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	63	59	67	63	59	56	
4	82	69	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50	60	55	50	48	
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44	54	48	44	42	
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	49	43	39	36	
7	64	51	42	36	62	50	41	36	48	41	35	46	40	35	45	39	34	45	39	34	32	
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	41	35	31	29	
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	38	32	28	26	
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	35	29	25	23	

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

	0°	45°	90°
0°	23974	23974	23974
5°	23619	23476	23599
10°	23329	22929	23088
15°	23015	22366	22561
20°	22613	21761	21961
25°	22153	21112	21331
30°	21662	20380	20660
35°	21018	19593	19896
40°	20227	18708	19100
45°	19379	17684	18090
50°	18251	16588	17218
55°	16974	15258	16197
60°	15627	13968	15075
65°	14245	12631	13519
70°	12776	11120	11991
75°	11213	9472	10455
80°	9340	7775	8787
85°	6936	6039	6915



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.7	3.2
10°-20°	1361.9	9.3
20°-30°	2059.5	14.1
30°-40°	2466.9	16.8
40°-50°	2519.6	17.2
50°-60°	2230.7	15.2
60°-70°	1690.9	11.5
70°-80°	1042.3	7.1
80°-90°	461.1	3.1
90°-100°	165.7	1.1
100°-110°	88.8	0.6
110°-120°	53.0	0.4
120°-130°	24.4	0.2
130°-140°	7.6	0.1
140°-150°	1.4	0.0
150°-160°	0.7	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	3897.2	26.6
0°-40°	6364.0	43.4
0°-60°	11114.4	75.9
0°-90°	14308.7	97.7
90°-120°	307.5	2.1
90°-150°	340.9	2.3
90°-180°	342.0	2.3
0°-180°	14651.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5024	5024	5024	5024	5024	
5°	4983	4993	5008	5022	5026	474
15°	4809	4813	4829	4840	4850	1356
25°	4443	4456	4474	4488	4488	2049
35°	3912	3924	3948	3976	3968	2445
45°	3217	3234	3271	3308	3300	2475
55°	2390	2438	2484	2562	2589	2138
65°	1586	1628	1714	1780	1790	1573
75°	881	922	990	1042	1056	938
85°	300	360	423	460	460	306
90°	158	199	245	267	266	91
95°	130	130	142	156	155	105
105°	116	99	73	67	68	121
115°	76	61	48	42	44	77
125°	40	33	22	20	24	37
135°	18	15	5	5	8	15
145°	6	4	1	0	0	4
155°	2	2	2	1	0	1
165°	3	3	2	1	1	1
175°	3	3	3	2	1	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5024.5	5024.5	5024.5	5024.5	5024.5
2.5°	4999.8	5005.7	5021.6	5037.4	5042.3
5°	4983.0	4992.9	5007.7	5021.6	5026.5
7.5°	4958.3	4966.2	4979.0	4992.9	4996.8
10°	4916.8	4925.7	4939.5	4952.4	4959.3
12.5°	4870.3	4874.3	4887.1	4901.9	4905.9
15°	4809.0	4813.0	4828.8	4839.7	4849.6
17.5°	4732.9	4736.9	4760.6	4765.5	4766.5
20°	4647.9	4653.8	4672.6	4681.5	4688.4
22.5°	4555.0	4562.9	4577.7	4588.6	4598.5
25°	4443.3	4456.1	4473.9	4487.8	4487.8
27.5°	4335.5	4337.5	4354.3	4369.1	4379.0
30°	4204.1	4206.0	4228.8	4245.6	4249.5
32.5°	4064.7	4072.6	4096.3	4114.1	4119.1
35°	3911.5	3924.3	3948.0	3975.7	3967.8
37.5°	3752.3	3759.2	3792.9	3815.6	3824.5
40°	3574.4	3594.2	3628.8	3653.5	3660.4
42.5°	3400.4	3418.2	3455.8	3479.5	3482.5
45°	3216.6	3234.4	3270.9	3308.5	3299.6
47.5°	3017.9	3045.6	3082.1	3121.7	3128.6
50°	2810.3	2850.8	2895.3	2927.9	2957.6
52.5°	2606.7	2639.3	2690.7	2749.0	2776.7
55°	2390.2	2437.6	2484.1	2562.2	2588.9
57.5°	2175.7	2233.0	2290.3	2376.3	2400.1
60°	1978.0	2023.4	2092.6	2176.7	2211.3
62.5°	1776.3	1828.7	1905.8	1982.9	2006.6
65°	1586.5	1628.1	1714.0	1780.3	1790.2
67.5°	1395.8	1445.2	1526.2	1595.4	1599.4
70°	1217.8	1262.3	1340.4	1398.7	1404.7
72.5°	1045.8	1091.3	1157.5	1216.8	1228.7
75°	880.7	922.3	989.5	1041.9	1055.7
77.5°	734.5	765.1	824.4	883.7	888.7
80°	571.3	606.9	681.1	730.5	738.4
82.5°	434.9	477.4	543.7	588.2	590.1
85°	300.5	359.8	423.1	459.6	459.6
87.5°	207.6	269.9	326.2	350.9	353.9
90°	158.2	198.7	245.1	266.9	265.9
92.5°	137.4	156.2	185.8	203.6	200.7
95°	129.5	129.5	142.3	156.2	155.2
97.5°	125.5	117.6	112.7	121.6	120.6
100°	124.6	110.7	92.9	96.9	97.9
102.5°	121.6	104.8	81.1	80.1	81.1
105°	115.7	98.8	73.1	67.2	68.2
107.5°	107.7	90.9	67.2	59.3	60.3
110°	97.9	81.1	61.3	53.4	53.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	88.0	71.2	55.4	47.4	48.4
115°	76.1	61.3	48.4	41.5	43.5
117.5°	66.2	53.4	42.5	35.6	38.6
120°	56.3	46.5	34.6	29.7	33.6
122.5°	47.4	39.5	27.7	24.7	28.7
125°	40.5	32.6	21.7	19.8	23.7
127.5°	33.6	27.7	15.8	15.8	18.8
130°	27.7	22.7	9.9	11.9	14.8
132.5°	22.7	18.8	6.9	7.9	10.9
135°	17.8	14.8	4.9	4.9	7.9
137.5°	14.8	10.9	3.0	2.0	4.0
140°	10.9	7.9	2.0	0.0	1.0
142.5°	8.9	5.9	1.0	0.0	0.0
145°	5.9	4.0	1.0	0.0	0.0
147.5°	4.0	2.0	1.0	1.0	0.0
150°	2.0	2.0	1.0	1.0	0.0
152.5°	2.0	2.0	1.0	1.0	0.0
155°	2.0	2.0	2.0	1.0	0.0
157.5°	2.0	2.0	2.0	1.0	0.0
160°	2.0	2.0	2.0	1.0	1.0
162.5°	3.0	3.0	2.0	1.0	1.0
165°	3.0	3.0	2.0	1.0	1.0
167.5°	3.0	3.0	2.0	2.0	1.0
170°	3.0	3.0	2.0	1.0	1.0
172.5°	3.0	3.0	2.0	2.0	1.0
175°	3.0	3.0	3.0	2.0	1.0
177.5°	3.0	3.0	3.0	2.0	1.0
180°	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)