

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-LD5-18-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-LD5-18-DRF-L835-CD2-U  
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND FROSTED ACRYLIC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

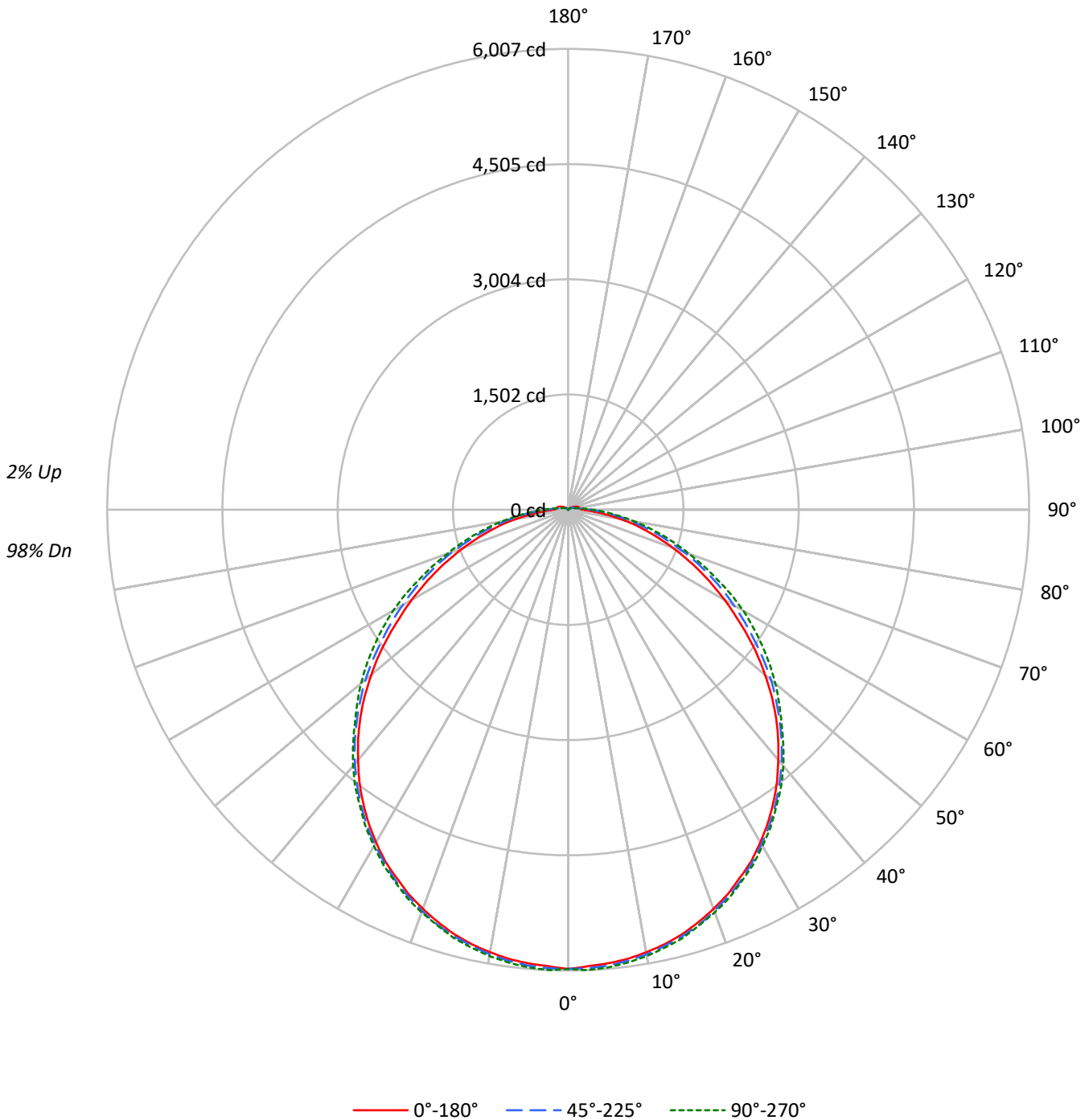
Lumens per Lamp: N/A  
Luminaire Lumens: 17454.1 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 137.5  
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	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	100	100	100	98		
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	83	83	83	83	83	83	81		
2	98	89	82	77	95	87	81	75	83	78	73	80	75	71	76	73	69	69	69	69	69	69	69	67		
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	63	59	59	59	59	59	59	59	56		
4	82	69	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50	50	50	50	50	50	50	48		
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44	44	44	44	44	44	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	39	39	39	39	39	39	36		
7	64	51	42	36	62	50	41	36	48	41	35	46	40	35	45	39	34	34	34	34	34	34	34	32		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	31	31	31	31	31	31	29		
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	28	28	28	28	28	28	26		
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	25	25	25	25	25	25	23		

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

	0°	45°	90°
0°	28561	28561	28561
5°	28138	27967	28114
10°	27791	27316	27506
15°	27419	26645	26877
20°	26939	25925	26163
25°	26391	25151	25412
30°	25806	24279	24613
35°	25039	23342	23703
40°	24096	22287	22754
45°	23086	21068	21551
50°	21742	19761	20512
55°	20222	18177	19296
60°	18617	16640	17959
65°	16972	15048	16106
70°	15221	13247	14285
75°	13360	11284	12456
80°	11129	9263	10468
85°	8263	7193	8239



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	566.8	3.2
10°-20°	1622.5	9.3
20°-30°	2453.5	14.1
30°-40°	2938.8	16.8
40°-50°	3001.6	17.2
50°-60°	2657.5	15.2
60°-70°	2014.4	11.5
70°-80°	1241.7	7.1
80°-90°	549.3	3.1
90°-100°	197.4	1.1
100°-110°	105.8	0.6
110°-120°	63.1	0.4
120°-130°	29.1	0.2
130°-140°	9.0	0.1
140°-150°	1.7	0.0
150°-160°	0.8	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	4642.8	26.6
0°-40°	7581.6	43.4
0°-60°	13240.8	75.9
0°-90°	17046.2	97.7
90°-120°	366.3	2.1
90°-150°	406.2	2.3
90°-180°	408.0	2.3
0°-180°	17454.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5986	5986	5986	5986	5986	
5°	5936	5948	5966	5982	5988	564
15°	5729	5734	5753	5766	5777	1616
25°	5293	5309	5330	5346	5346	2441
35°	4660	4675	4703	4736	4727	2913
45°	3832	3853	3897	3942	3931	2949
55°	2848	2904	2959	3052	3084	2548
65°	1890	1940	2042	2121	2133	1873
75°	1049	1099	1179	1241	1258	1117
85°	358	429	504	548	548	365
90°	188	237	292	318	317	108
95°	154	154	170	186	185	125
105°	138	118	87	80	81	144
115°	91	73	58	50	52	91
125°	48	39	26	24	28	44
135°	21	18	6	6	9	17
145°	7	5	1	0	0	5
155°	2	2	2	1	0	1
165°	4	4	2	1	1	1
175°	4	4	4	2	1	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5985.8	5985.8	5985.8	5985.8	5985.8
2.5°	5956.4	5963.4	5982.3	6001.1	6007.0
5°	5936.3	5948.1	5965.8	5982.3	5988.2
7.5°	5906.9	5916.3	5931.6	5948.1	5952.8
10°	5857.4	5868.0	5884.5	5899.8	5908.1
12.5°	5802.1	5806.8	5822.1	5839.8	5844.5
15°	5729.1	5733.8	5752.6	5765.6	5777.4
17.5°	5638.4	5643.1	5671.4	5677.3	5678.4
20°	5537.1	5544.2	5566.6	5577.2	5585.4
22.5°	5426.4	5435.9	5453.5	5466.5	5478.2
25°	5293.4	5308.7	5329.9	5346.4	5346.4
27.5°	5165.0	5167.4	5187.4	5205.0	5216.8
30°	5008.4	5010.7	5037.8	5057.8	5062.6
32.5°	4842.3	4851.8	4880.0	4901.2	4907.1
35°	4659.8	4675.1	4703.4	4736.4	4726.9
37.5°	4470.2	4478.5	4518.5	4545.6	4556.2
40°	4258.2	4281.8	4323.0	4352.5	4360.7
42.5°	4051.0	4072.2	4116.9	4145.2	4148.7
45°	3831.9	3853.1	3896.7	3941.5	3930.9
47.5°	3595.2	3628.2	3671.8	3718.9	3727.1
50°	3347.9	3396.2	3449.2	3488.1	3523.4
52.5°	3105.4	3144.2	3205.5	3274.9	3307.9
55°	2847.5	2904.0	2959.3	3052.4	3084.2
57.5°	2591.9	2660.2	2728.5	2831.0	2859.2
60°	2356.4	2410.6	2493.0	2593.1	2634.3
62.5°	2116.2	2178.6	2270.4	2362.3	2390.6
65°	1890.1	1939.5	2042.0	2120.9	2132.7
67.5°	1662.8	1721.7	1818.2	1900.7	1905.4
70°	1450.8	1503.8	1596.8	1666.3	1673.4
72.5°	1245.9	1300.1	1379.0	1449.6	1463.8
75°	1049.3	1098.7	1178.8	1241.2	1257.7
77.5°	875.0	911.5	982.1	1052.8	1058.7
80°	680.7	723.1	811.4	870.3	879.7
82.5°	518.1	568.8	647.7	700.7	703.0
85°	358.0	428.7	504.0	547.6	547.6
87.5°	247.3	321.5	388.6	418.1	421.6
90°	188.4	236.7	292.0	318.0	316.8
92.5°	163.7	186.1	221.4	242.6	239.1
95°	154.3	154.3	169.6	186.1	184.9
97.5°	149.6	140.1	134.2	144.8	143.7
100°	148.4	131.9	110.7	115.4	116.6
102.5°	144.8	124.8	96.6	95.4	96.6
105°	137.8	117.8	87.1	80.1	81.3
107.5°	128.4	108.3	80.1	70.7	71.8
110°	116.6	96.6	73.0	63.6	63.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	104.8	84.8	65.9	56.5	57.7
115°	90.7	73.0	57.7	49.5	51.8
117.5°	78.9	63.6	50.6	42.4	45.9
120°	67.1	55.3	41.2	35.3	40.0
122.5°	56.5	47.1	33.0	29.4	34.2
125°	48.3	38.9	25.9	23.6	28.3
127.5°	40.0	33.0	18.8	18.8	22.4
130°	33.0	27.1	11.8	14.1	17.7
132.5°	27.1	22.4	8.2	9.4	13.0
135°	21.2	17.7	5.9	5.9	9.4
137.5°	17.7	13.0	3.5	2.4	4.7
140°	13.0	9.4	2.4	0.0	1.2
142.5°	10.6	7.1	1.2	0.0	0.0
145°	7.1	4.7	1.2	0.0	0.0
147.5°	4.7	2.4	1.2	1.2	0.0
150°	2.4	2.4	1.2	1.2	0.0
152.5°	2.4	2.4	1.2	1.2	0.0
155°	2.4	2.4	2.4	1.2	0.0
157.5°	2.4	2.4	2.4	1.2	0.0
160°	2.4	2.4	2.4	1.2	1.2
162.5°	3.5	3.5	2.4	1.2	1.2
165°	3.5	3.5	2.4	1.2	1.2
167.5°	3.5	3.5	2.4	2.4	1.2
170°	3.5	3.5	2.4	1.2	1.2
172.5°	3.5	3.5	2.4	2.4	1.2
175°	3.5	3.5	3.5	2.4	1.2
177.5°	3.5	3.5	3.5	2.4	1.2
180°	3.5	3.5	3.5	3.5	3.5

(END OF REPORT)