

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-L840-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-L840-CD2-U  
Description: VRVT4S VAPORTIGHT FIXTURE WITH 4000K LED AND FROSTED ACRYLIC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

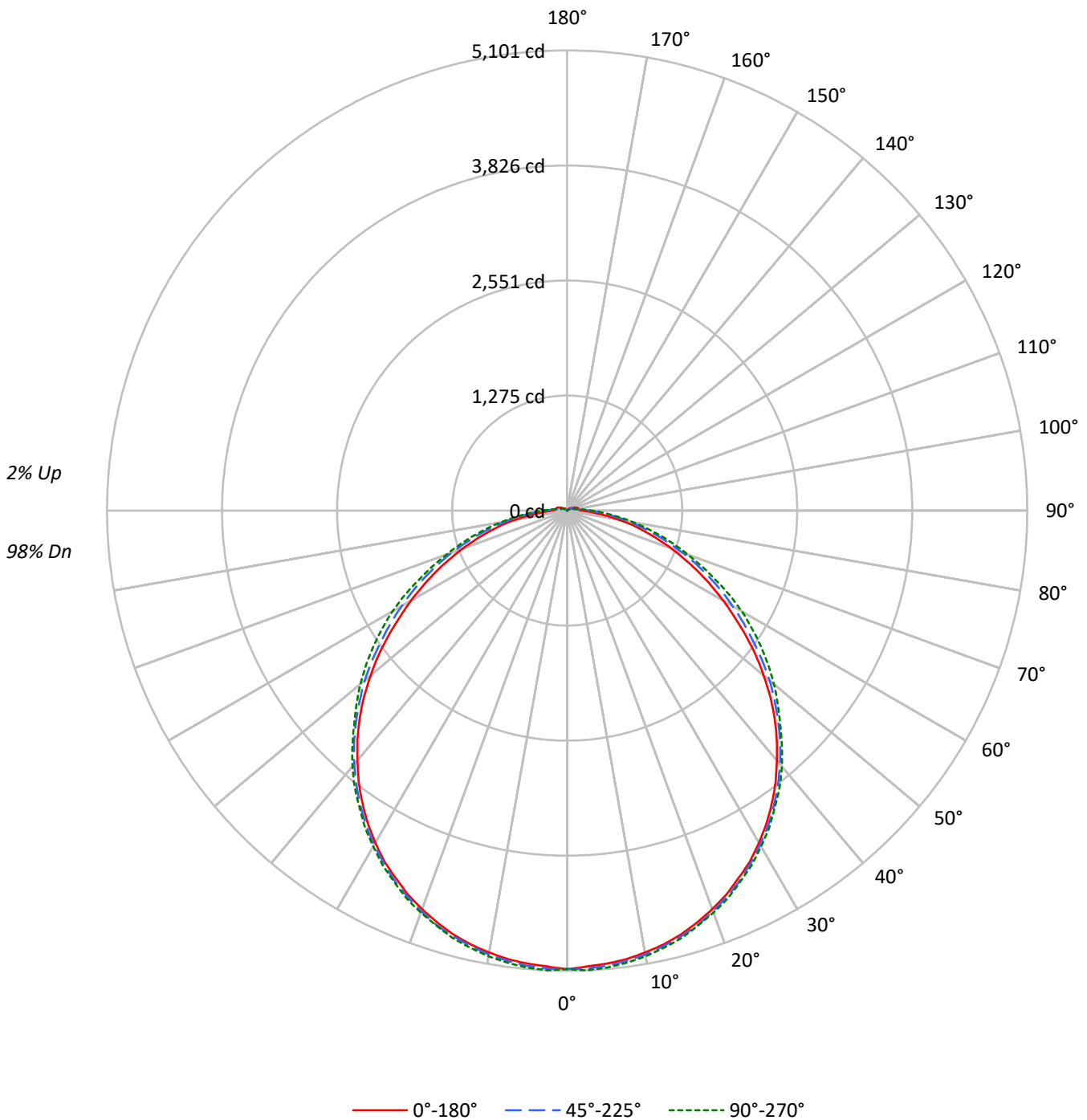
Lumens per Lamp: N/A  
Luminaire Lumens: 14821.0 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	24252	24252	24252
5°	23893	23748	23873
10°	23599	23195	23356
15°	23282	22626	22822
20°	22875	22013	22216
25°	22410	21356	21578
30°	21913	20616	20899
35°	21262	19821	20127
40°	20462	18925	19322
45°	19604	17890	18299
50°	18462	16780	17418
55°	17171	15435	16385
60°	15808	14130	15249
65°	14411	12778	13676
70°	12925	11249	12130
75°	11345	9582	10577
80°	9450	7865	8889
85°	7017	6109	6997



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.3	3.2
10°-20°	1377.7	9.3
20°-30°	2083.4	14.1
30°-40°	2495.5	16.8
40°-50°	2548.9	17.2
50°-60°	2256.6	15.2
60°-70°	1710.5	11.5
70°-80°	1054.4	7.1
80°-90°	466.5	3.1
90°-100°	167.6	1.1
100°-110°	89.9	0.6
110°-120°	53.6	0.4
120°-130°	24.7	0.2
130°-140°	7.7	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°	3942.3	26.6
0°-40°	6437.9	43.4
0°-60°	11243.3	75.9
0°-90°	14474.7	97.7
90°-120°	311.0	2.1
90°-150°	344.9	2.3
90°-180°	346.0	2.3
0°-180°	14821.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5083	5083	5083	5083	5083	
5°	5041	5051	5066	5080	5085	479
15°	4865	4869	4885	4896	4906	1372
25°	4495	4508	4526	4540	4540	2073
35°	3957	3970	3994	4022	4014	2473
45°	3254	3272	3309	3347	3338	2504
55°	2418	2466	2513	2592	2619	2163
65°	1605	1647	1734	1801	1811	1591
75°	891	933	1001	1054	1068	949
85°	304	364	428	465	465	310
90°	160	201	248	270	269	92
95°	131	131	144	158	157	106
105°	117	100	74	68	69	122
115°	77	62	49	42	44	77
125°	41	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°	5082.8	5082.8	5082.8	5082.8	5082.8
2.5°	5057.8	5063.8	5079.8	5095.8	5100.8
5°	5040.8	5050.8	5065.8	5079.8	5084.8
7.5°	5015.8	5023.8	5036.8	5050.8	5054.8
10°	4973.8	4982.8	4996.8	5009.8	5016.8
12.5°	4926.8	4930.8	4943.8	4958.8	4962.8
15°	4864.8	4868.8	4884.8	4895.8	4905.8
17.5°	4787.8	4791.8	4815.8	4820.8	4821.8
20°	4701.8	4707.8	4726.8	4735.8	4742.8
22.5°	4607.8	4615.8	4630.8	4641.8	4651.8
25°	4494.8	4507.8	4525.8	4539.8	4539.8
27.5°	4385.8	4387.8	4404.8	4419.8	4429.8
30°	4252.8	4254.8	4277.8	4294.8	4298.8
32.5°	4111.9	4119.9	4143.9	4161.9	4166.9
35°	3956.9	3969.9	3993.9	4021.9	4013.9
37.5°	3795.9	3802.9	3836.9	3859.9	3868.9
40°	3615.9	3635.9	3670.9	3695.9	3702.9
42.5°	3439.9	3457.9	3495.9	3519.9	3522.9
45°	3253.9	3271.9	3308.9	3346.9	3337.9
47.5°	3052.9	3080.9	3117.9	3157.9	3164.9
50°	2842.9	2883.9	2928.9	2961.9	2991.9
52.5°	2636.9	2669.9	2721.9	2780.9	2808.9
55°	2417.9	2465.9	2512.9	2591.9	2618.9
57.5°	2200.9	2258.9	2316.9	2403.9	2427.9
60°	2000.9	2046.9	2116.9	2201.9	2236.9
62.5°	1796.9	1849.9	1927.9	2005.9	2029.9
65°	1604.9	1646.9	1733.9	1800.9	1810.9
67.5°	1411.9	1461.9	1543.9	1613.9	1617.9
70°	1232.0	1277.0	1356.0	1414.9	1420.9
72.5°	1058.0	1104.0	1171.0	1231.0	1243.0
75°	891.0	933.0	1001.0	1054.0	1068.0
77.5°	743.0	774.0	834.0	894.0	899.0
80°	578.0	614.0	689.0	739.0	747.0
82.5°	440.0	483.0	550.0	595.0	597.0
85°	304.0	364.0	428.0	465.0	465.0
87.5°	210.0	273.0	330.0	355.0	358.0
90°	160.0	201.0	248.0	270.0	269.0
92.5°	139.0	158.0	188.0	206.0	203.0
95°	131.0	131.0	144.0	158.0	157.0
97.5°	127.0	119.0	114.0	123.0	122.0
100°	126.0	112.0	94.0	98.0	99.0
102.5°	123.0	106.0	82.0	81.0	82.0
105°	117.0	100.0	74.0	68.0	69.0
107.5°	109.0	92.0	68.0	60.0	61.0
110°	99.0	82.0	62.0	54.0	54.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	89.0	72.0	56.0	48.0	49.0
115°	77.0	62.0	49.0	42.0	44.0
117.5°	67.0	54.0	43.0	36.0	39.0
120°	57.0	47.0	35.0	30.0	34.0
122.5°	48.0	40.0	28.0	25.0	29.0
125°	41.0	33.0	22.0	20.0	24.0
127.5°	34.0	28.0	16.0	16.0	19.0
130°	28.0	23.0	10.0	12.0	15.0
132.5°	23.0	19.0	7.0	8.0	11.0
135°	18.0	15.0	5.0	5.0	8.0
137.5°	15.0	11.0	3.0	2.0	4.0
140°	11.0	8.0	2.0	0.0	1.0
142.5°	9.0	6.0	1.0	0.0	0.0
145°	6.0	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)