

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-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-LD5-18-DRF-L840-CD2-U  
Description: VRVT4S VAPORTIGHT FIXTURE WITH 4000K LED AND FROSTED ACRYLIC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

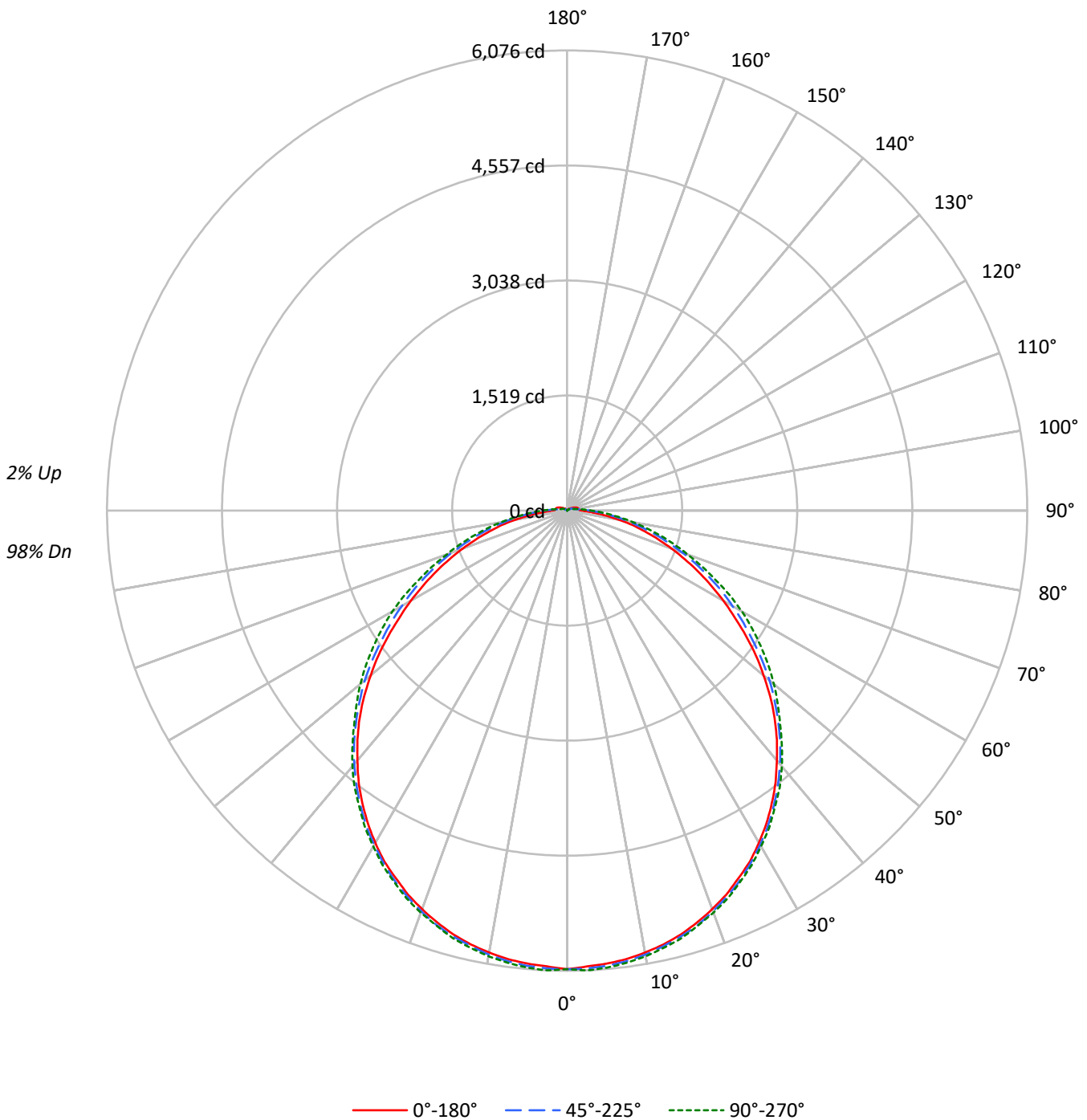
Lumens per Lamp: N/A  
Luminaire Lumens: 17656.0 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')  
CIE Type: Direct

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	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°	28892	28892	28892
5°	28463	28291	28439
10°	28113	27632	27824
15°	27736	26954	27187
20°	27251	26224	26466
25°	26696	25442	25706
30°	26105	24560	24897
35°	25328	23612	23977
40°	24375	22545	23018
45°	23354	21312	21800
50°	21994	19990	20749
55°	20455	18388	19519
60°	18833	16833	18167
65°	17167	15222	16292
70°	15397	13401	14451
75°	13514	11414	12599
80°	11257	9370	10589
85°	8358	7278	8334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.3	3.2
10°-20°	1641.2	9.3
20°-30°	2481.9	14.1
30°-40°	2972.8	16.8
40°-50°	3036.4	17.2
50°-60°	2688.3	15.2
60°-70°	2037.7	11.5
70°-80°	1256.1	7.1
80°-90°	555.7	3.1
90°-100°	199.7	1.1
100°-110°	107.0	0.6
110°-120°	63.8	0.4
120°-130°	29.5	0.2
130°-140°	9.1	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°	4696.5	26.6
0°-40°	7669.3	43.4
0°-60°	13394.0	75.9
0°-90°	17243.4	97.7
90°-120°	370.5	2.1
90°-150°	410.8	2.3
90°-180°	413.0	2.3
0°-180°	17656.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6055	6055	6055	6055	6055	
5°	6005	6017	6035	6052	6058	571
15°	5795	5800	5819	5832	5844	1635
25°	5355	5370	5392	5408	5408	2469
35°	4714	4729	4758	4791	4782	2947
45°	3876	3898	3942	3987	3976	2983
55°	2880	2938	2994	3088	3120	2577
65°	1912	1962	2066	2145	2157	1895
75°	1061	1111	1192	1256	1272	1130
85°	362	434	510	554	554	369
90°	191	239	295	322	320	109
95°	156	156	172	188	187	127
105°	139	119	88	81	82	146
115°	92	74	58	50	52	92
125°	49	39	26	24	29	45
135°	21	18	6	6	10	18
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°	6055.1	6055.1	6055.1	6055.1	6055.1
2.5°	6025.3	6032.4	6051.5	6070.6	6076.5
5°	6005.0	6017.0	6034.8	6051.5	6057.5
7.5°	5975.3	5984.8	6000.3	6017.0	6021.7
10°	5925.2	5935.9	5952.6	5968.1	5976.5
12.5°	5869.2	5874.0	5889.5	5907.4	5912.1
15°	5795.4	5800.1	5819.2	5832.3	5844.2
17.5°	5703.7	5708.4	5737.0	5743.0	5744.2
20°	5601.2	5608.4	5631.0	5641.7	5650.1
22.5°	5489.2	5498.8	5516.6	5529.7	5541.6
25°	5354.6	5370.1	5391.6	5408.2	5408.2
27.5°	5224.8	5227.2	5247.4	5265.3	5277.2
30°	5066.3	5068.7	5096.1	5116.4	5121.1
32.5°	4898.4	4907.9	4936.5	4957.9	4963.9
35°	4713.7	4729.2	4757.8	4791.2	4781.6
37.5°	4521.9	4530.3	4570.8	4598.2	4608.9
40°	4307.5	4331.3	4373.0	4402.8	4411.2
42.5°	4097.9	4119.3	4164.6	4193.2	4196.7
45°	3876.3	3897.7	3941.8	3987.1	3976.4
47.5°	3636.9	3670.2	3714.3	3761.9	3770.3
50°	3386.7	3435.5	3489.1	3528.5	3564.2
52.5°	3141.3	3180.6	3242.6	3312.8	3346.2
55°	2880.4	2937.6	2993.6	3087.7	3119.9
57.5°	2621.9	2691.0	2760.1	2863.7	2892.3
60°	2383.7	2438.5	2521.9	2623.1	2664.8
62.5°	2140.7	2203.8	2296.7	2389.6	2418.2
65°	1911.9	1962.0	2065.6	2145.4	2157.3
67.5°	1682.0	1741.6	1839.3	1922.7	1927.4
70°	1467.6	1521.2	1615.3	1685.6	1692.8
72.5°	1260.3	1315.1	1394.9	1466.4	1480.7
75°	1061.4	1111.4	1192.4	1255.6	1272.2
77.5°	885.1	922.0	993.5	1065.0	1070.9
80°	688.5	731.4	820.8	880.3	889.9
82.5°	524.1	575.4	655.2	708.8	711.2
85°	362.1	433.6	509.9	553.9	553.9
87.5°	250.2	325.2	393.1	422.9	426.5
90°	190.6	239.4	295.4	321.6	320.4
92.5°	165.6	188.2	224.0	245.4	241.8
95°	156.1	156.1	171.5	188.2	187.0
97.5°	151.3	141.8	135.8	146.5	145.3
100°	150.1	133.4	112.0	116.7	117.9
102.5°	146.5	126.3	97.7	96.5	97.7
105°	139.4	119.1	88.2	81.0	82.2
107.5°	129.8	109.6	81.0	71.5	72.7
110°	117.9	97.7	73.9	64.3	64.3



TEST NUMBER: P#

CATALOG NUMBER: VRVT4S-LD5-18-DRF-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	85.8	66.7	57.2	58.4
115°	91.7	73.9	58.4	50.0	52.4
117.5°	79.8	64.3	51.2	42.9	46.5
120°	67.9	56.0	41.7	35.7	40.5
122.5°	57.2	47.6	33.4	29.8	34.5
125°	48.8	39.3	26.2	23.8	28.6
127.5°	40.5	33.4	19.1	19.1	22.6
130°	33.4	27.4	11.9	14.3	17.9
132.5°	27.4	22.6	8.3	9.5	13.1
135°	21.4	17.9	6.0	6.0	9.5
137.5°	17.9	13.1	3.6	2.4	4.8
140°	13.1	9.5	2.4	0.0	1.2
142.5°	10.7	7.1	1.2	0.0	0.0
145°	7.1	4.8	1.2	0.0	0.0
147.5°	4.8	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°	3.6	3.6	2.4	1.2	1.2
165°	3.6	3.6	2.4	1.2	1.2
167.5°	3.6	3.6	2.4	2.4	1.2
170°	3.6	3.6	2.4	1.2	1.2
172.5°	3.6	3.6	2.4	2.4	1.2
175°	3.6	3.6	3.6	2.4	1.2
177.5°	3.6	3.6	3.6	2.4	1.2
180°	3.6	3.6	3.6	3.6	3.6

(END OF REPORT)