

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-LD5-12-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-LD5-12-DRF-L840-CD2-U  
Description: VRVT4S VAPORTIGHT FIXTURE WITH 4000K LED AND FROSTED ACRYLIC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

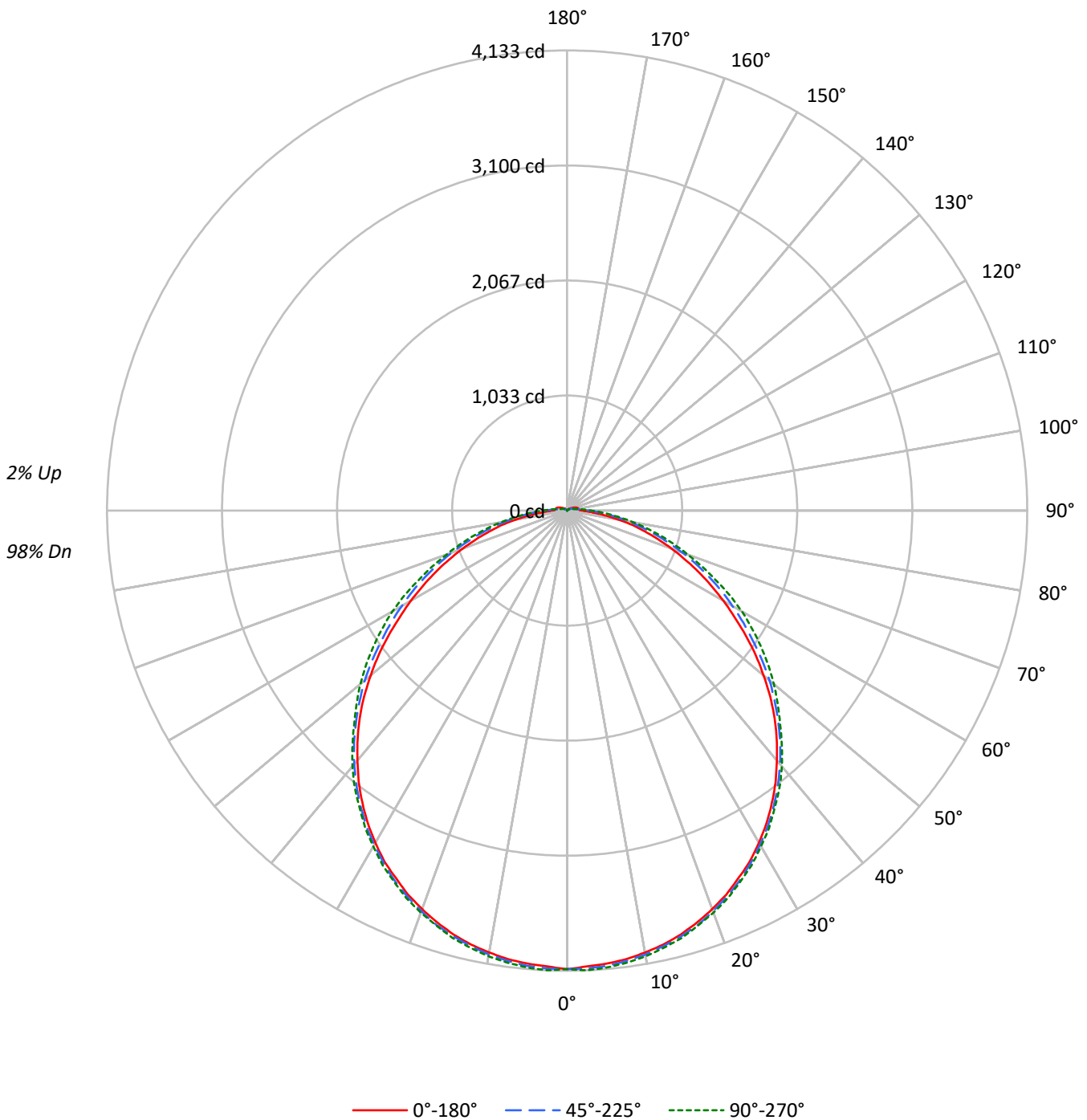
Lumens per Lamp: N/A  
Luminaire Lumens: 12008.0 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 83.9  
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°	19649	19649	19649
5°	19358	19241	19342
10°	19120	18793	18923
15°	18864	18332	18490
20°	18533	17836	17999
25°	18156	17303	17483
30°	17754	16703	16933
35°	17226	16059	16307
40°	16578	15333	15655
45°	15883	14494	14826
50°	14958	13595	14111
55°	13912	12506	13275
60°	12808	11448	12356
65°	11676	10353	11080
70°	10471	9114	9828
75°	9192	7763	8570
80°	7656	6372	7202
85°	5685	4950	5668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.9	3.2
10°-20°	1116.2	9.3
20°-30°	1688.0	14.1
30°-40°	2021.9	16.8
40°-50°	2065.1	17.2
50°-60°	1828.3	15.2
60°-70°	1385.9	11.5
70°-80°	854.3	7.1
80°-90°	377.9	3.1
90°-100°	135.8	1.1
100°-110°	72.8	0.6
110°-120°	43.4	0.4
120°-130°	20.0	0.2
130°-140°	6.2	0.1
140°-150°	1.2	0.0
150°-160°	0.5	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	3194.1	26.6
0°-40°	5216.0	43.4
0°-60°	9109.4	75.9
0°-90°	11727.4	97.7
90°-120°	252.0	2.1
90°-150°	279.4	2.3
90°-180°	281.0	2.3
0°-180°	12008.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4118	4118	4118	4118	4118	
5°	4084	4092	4104	4116	4120	388
15°	3942	3945	3958	3967	3975	1112
25°	3642	3652	3667	3678	3678	1679
35°	3206	3216	3236	3258	3252	2004
45°	2636	2651	2681	2712	2704	2029
55°	1959	1998	2036	2100	2122	1753
65°	1300	1334	1405	1459	1467	1289
75°	722	756	811	854	865	769
85°	246	295	347	377	377	251
90°	130	163	201	219	218	74
95°	106	106	117	128	127	86
105°	95	81	60	55	56	99
115°	62	50	40	34	36	63
125°	33	27	18	16	19	30
135°	15	12	4	4	6	12
145°	5	3	1	0	0	3
155°	2	2	2	1	0	1
165°	2	2	2	1	1	1
175°	2	2	2	2	1	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4118.1	4118.1	4118.1	4118.1	4118.1
2.5°	4097.9	4102.7	4115.7	4128.6	4132.7
5°	4084.1	4092.2	4104.3	4115.7	4119.7
7.5°	4063.8	4070.3	4080.8	4092.2	4095.4
10°	4029.8	4037.1	4048.4	4059.0	4064.6
12.5°	3991.7	3995.0	4005.5	4017.6	4020.9
15°	3941.5	3944.7	3957.7	3966.6	3974.7
17.5°	3879.1	3882.3	3901.8	3905.8	3906.7
20°	3809.4	3814.3	3829.7	3837.0	3842.6
22.5°	3733.3	3739.8	3751.9	3760.8	3768.9
25°	3641.7	3652.3	3666.8	3678.2	3678.2
27.5°	3553.4	3555.0	3568.8	3581.0	3589.1
30°	3445.7	3447.3	3465.9	3479.7	3482.9
32.5°	3331.4	3337.9	3357.4	3371.9	3376.0
35°	3205.9	3216.4	3235.8	3258.5	3252.0
37.5°	3075.4	3081.1	3108.6	3127.3	3134.6
40°	2929.6	2945.8	2974.1	2994.4	3000.1
42.5°	2787.0	2801.6	2832.4	2851.8	2854.2
45°	2636.3	2650.9	2680.9	2711.6	2704.4
47.5°	2473.5	2496.1	2526.1	2558.5	2564.2
50°	2303.3	2336.5	2373.0	2399.7	2424.0
52.5°	2136.4	2163.2	2205.3	2253.1	2275.8
55°	1959.0	1997.9	2036.0	2100.0	2121.8
57.5°	1783.2	1830.2	1877.2	1947.7	1967.1
60°	1621.2	1658.4	1715.1	1784.0	1812.4
62.5°	1455.9	1498.8	1562.0	1625.2	1644.7
65°	1300.3	1334.4	1404.8	1459.1	1467.2
67.5°	1144.0	1184.5	1250.9	1307.6	1310.9
70°	998.1	1034.6	1098.6	1146.4	1151.3
72.5°	857.2	894.4	948.7	997.3	1007.0
75°	721.9	755.9	811.0	853.9	865.3
77.5°	602.0	627.1	675.7	724.3	728.3
80°	468.3	497.4	558.2	598.7	605.2
82.5°	356.5	391.3	445.6	482.1	483.7
85°	246.3	294.9	346.8	376.7	376.7
87.5°	170.1	221.2	267.4	287.6	290.0
90°	129.6	162.8	200.9	218.7	217.9
92.5°	112.6	128.0	152.3	166.9	164.5
95°	106.1	106.1	116.7	128.0	127.2
97.5°	102.9	96.4	92.4	99.7	98.8
100°	102.1	90.7	76.2	79.4	80.2
102.5°	99.7	85.9	66.4	65.6	66.4
105°	94.8	81.0	60.0	55.1	55.9
107.5°	88.3	74.5	55.1	48.6	49.4
110°	80.2	66.4	50.2	43.7	43.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	72.1	58.3	45.4	38.9	39.7
115°	62.4	50.2	39.7	34.0	35.6
117.5°	54.3	43.7	34.8	29.2	31.6
120°	46.2	38.1	28.4	24.3	27.5
122.5°	38.9	32.4	22.7	20.3	23.5
125°	33.2	26.7	17.8	16.2	19.4
127.5°	27.5	22.7	13.0	13.0	15.4
130°	22.7	18.6	8.1	9.7	12.2
132.5°	18.6	15.4	5.7	6.5	8.9
135°	14.6	12.2	4.1	4.1	6.5
137.5°	12.2	8.9	2.4	1.6	3.2
140°	8.9	6.5	1.6	0.0	0.8
142.5°	7.3	4.9	0.8	0.0	0.0
145°	4.9	3.2	0.8	0.0	0.0
147.5°	3.2	1.6	0.8	0.8	0.0
150°	1.6	1.6	0.8	0.8	0.0
152.5°	1.6	1.6	0.8	0.8	0.0
155°	1.6	1.6	1.6	0.8	0.0
157.5°	1.6	1.6	1.6	0.8	0.0
160°	1.6	1.6	1.6	0.8	0.8
162.5°	2.4	2.4	1.6	0.8	0.8
165°	2.4	2.4	1.6	0.8	0.8
167.5°	2.4	2.4	1.6	1.6	0.8
170°	2.4	2.4	1.6	0.8	0.8
172.5°	2.4	2.4	1.6	1.6	0.8
175°	2.4	2.4	2.4	1.6	0.8
177.5°	2.4	2.4	2.4	1.6	0.8
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)