

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-PCF-L850-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 (G3-1801-511-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VRVT4S-LD5-15-PCF-L850-CD2-U  
Description: VRVT4S VAPORTIGHT FIXTURE WITH 5000K LED AND FROSTED POLYCARBONATE LENS  
Light Source: -  
Ballast/Driver: -

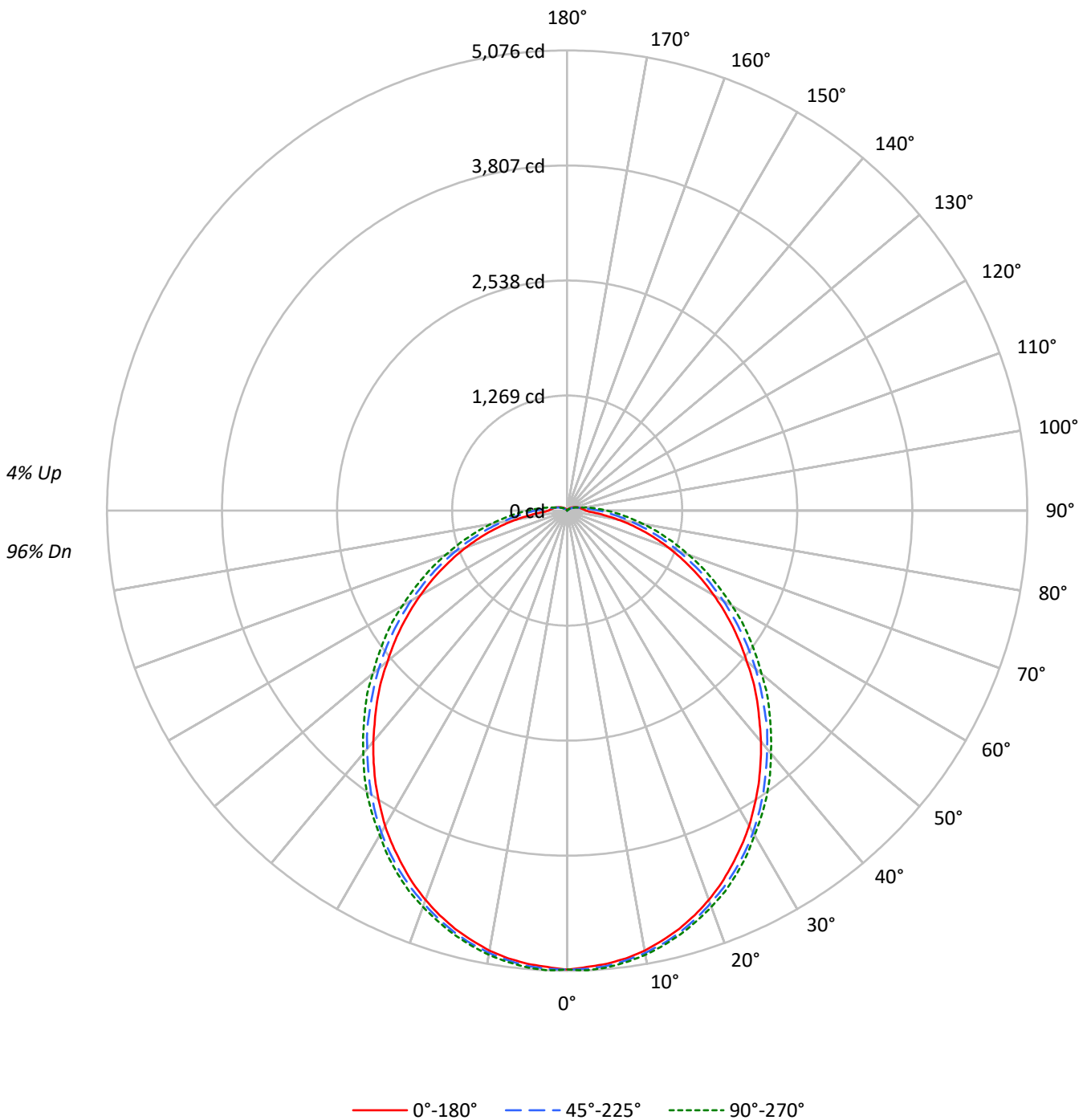
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14446.9 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32  
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	109	109	109	104	104	104	99	99	99	96
1	107	102	97	93	104	99	95	91	94	91	88	90	87	85	86	83	81	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	41
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	24158	24158	24158
5°	23785	23635	23750
10°	23386	22999	23167
15°	22858	22296	22504
20°	22238	21492	21788
25°	21481	20666	21025
30°	20693	19764	20100
35°	19784	18747	19254
40°	18821	17696	18253
45°	17862	16611	17309
50°	16782	15551	16290
55°	15825	14421	15360
60°	14769	13274	14298
65°	13658	12097	13232
70°	12406	10853	12131
75°	11005	9570	11125
80°	9262	8357	10131
85°	7294	7288	9348



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.3	3.3
10°-20°	1355.8	9.4
20°-30°	2013.7	13.9
30°-40°	2356.8	16.3
40°-50°	2368.4	16.4
50°-60°	2099.8	14.5
60°-70°	1629.1	11.3
70°-80°	1062.7	7.4
80°-90°	555.0	3.8
90°-100°	265.5	1.8
100°-110°	138.2	1.0
110°-120°	75.2	0.5
120°-130°	35.5	0.2
130°-140°	10.8	0.1
140°-150°	1.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	3847.8	26.6
0°-40°	6204.6	42.9
0°-60°	10672.7	73.9
0°-90°	13919.5	96.3
90°-120°	478.9	3.3
90°-150°	526.7	3.6
90°-180°	527.0	3.6
0°-180°	14446.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5063	5063	5063	5063	5063	
5°	5018	5024	5042	5054	5059	476
15°	4776	4788	4814	4830	4837	1346
25°	4308	4335	4379	4414	4424	1985
35°	3682	3719	3778	3824	3840	2301
45°	2965	3005	3072	3131	3157	2285
55°	2228	2269	2348	2427	2455	1993
65°	1521	1563	1642	1730	1752	1508
75°	864	905	1000	1092	1123	917
85°	316	404	511	600	621	313
90°	204	263	349	416	432	115
95°	177	189	235	284	296	140
105°	130	124	127	129	135	138
115°	88	73	74	70	75	88
125°	54	44	31	32	40	49
135°	28	22	5	6	12	22
145°	8	4	0	0	0	5
155°	2	2	0	0	0	1
165°	2	2	1	0	0	1
175°	3	2	1	0	0	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5063.1	5063.1	5063.1	5063.1	5063.1
2.5°	5039.5	5045.9	5059.9	5073.9	5076.0
5°	5018.0	5024.4	5041.6	5053.5	5058.8
7.5°	4981.4	4987.9	5004.0	5020.1	5022.3
10°	4928.8	4937.4	4954.6	4972.8	4976.1
12.5°	4856.7	4870.7	4892.2	4908.3	4912.6
15°	4776.1	4787.9	4813.7	4829.9	4837.4
17.5°	4679.4	4694.4	4721.3	4740.6	4749.2
20°	4570.8	4585.8	4614.9	4648.2	4651.4
22.5°	4448.2	4471.9	4503.1	4535.3	4548.2
25°	4308.5	4335.4	4379.4	4413.8	4423.5
27.5°	4166.6	4192.4	4246.1	4281.6	4289.1
30°	4016.1	4044.1	4101.0	4129.0	4134.4
32.5°	3848.4	3880.7	3941.9	3980.6	3990.3
35°	3681.8	3719.4	3777.5	3823.7	3839.8
37.5°	3505.5	3547.4	3603.3	3662.4	3675.3
40°	3326.0	3370.0	3432.4	3487.2	3498.0
42.5°	3138.9	3187.3	3264.7	3308.8	3329.2
45°	2964.8	3004.6	3072.3	3131.4	3157.2
47.5°	2781.0	2820.7	2891.7	2961.6	2990.6
50°	2584.2	2638.0	2714.3	2782.0	2798.2
52.5°	2410.1	2461.7	2528.3	2603.6	2628.3
55°	2228.4	2269.3	2347.7	2427.3	2455.2
57.5°	2047.8	2091.9	2163.9	2244.5	2286.5
60°	1869.4	1911.3	1988.7	2072.5	2097.3
62.5°	1696.3	1739.3	1809.2	1900.6	1925.3
65°	1521.1	1563.0	1641.5	1729.6	1752.2
67.5°	1351.2	1391.0	1471.6	1565.2	1593.1
70°	1182.5	1234.1	1308.2	1395.3	1421.1
72.5°	1023.4	1068.5	1153.4	1241.6	1271.7
75°	864.3	905.1	999.7	1092.2	1123.3
77.5°	714.9	767.5	860.0	961.0	985.8
80°	566.5	622.4	732.1	828.8	851.4
82.5°	432.1	504.2	616.0	711.6	725.6
85°	316.0	404.2	510.6	599.8	621.3
87.5°	237.6	323.6	427.8	502.0	521.4
90°	204.2	263.4	349.4	416.0	432.1
92.5°	190.3	219.3	287.0	346.1	356.9
95°	177.4	189.2	235.4	283.8	295.6
97.5°	164.5	168.8	197.8	232.2	241.9
100°	152.6	153.7	166.6	191.3	197.8
102.5°	140.8	137.6	143.0	155.9	161.2
105°	130.1	123.6	126.8	129.0	135.4
107.5°	119.3	109.6	111.8	109.6	112.9
110°	108.6	95.7	97.8	94.6	97.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	97.8	83.8	86.0	81.7	86.0
115°	88.1	73.1	74.2	69.9	75.2
117.5°	79.5	65.6	62.3	59.1	65.6
120°	69.9	57.0	51.6	49.4	57.0
122.5°	62.3	50.5	40.8	40.8	48.4
125°	53.7	44.1	31.2	32.2	39.8
127.5°	47.3	37.6	22.6	25.8	32.2
130°	40.8	32.2	14.0	19.3	25.8
132.5°	33.3	25.8	8.6	12.9	18.3
135°	27.9	21.5	5.4	6.4	11.8
137.5°	22.6	16.1	2.1	1.1	5.4
140°	17.2	11.8	1.1	0.0	0.0
142.5°	11.8	7.5	0.0	0.0	0.0
145°	7.5	4.3	0.0	0.0	0.0
147.5°	4.3	2.1	0.0	0.0	0.0
150°	2.1	1.1	0.0	0.0	0.0
152.5°	2.1	1.1	0.0	0.0	0.0
155°	2.1	2.1	0.0	0.0	0.0
157.5°	2.1	2.1	1.1	0.0	0.0
160°	2.1	2.1	1.1	0.0	0.0
162.5°	2.1	2.1	1.1	0.0	0.0
165°	2.1	2.1	1.1	0.0	0.0
167.5°	2.1	2.1	1.1	0.0	0.0
170°	2.1	2.1	1.1	0.0	0.0
172.5°	2.1	2.1	1.1	0.0	0.0
175°	3.2	2.1	1.1	0.0	0.0
177.5°	3.2	2.1	1.1	0.0	0.0
180°	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)