

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-DR-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 (G3-1801-511-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VRVT4S-LD5-15-DR-L850-CD2-U  
Description: VRVT4S VAPORTIGHT FIXTURE WITH 5000K LED AND CLEAR ACRYLIC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

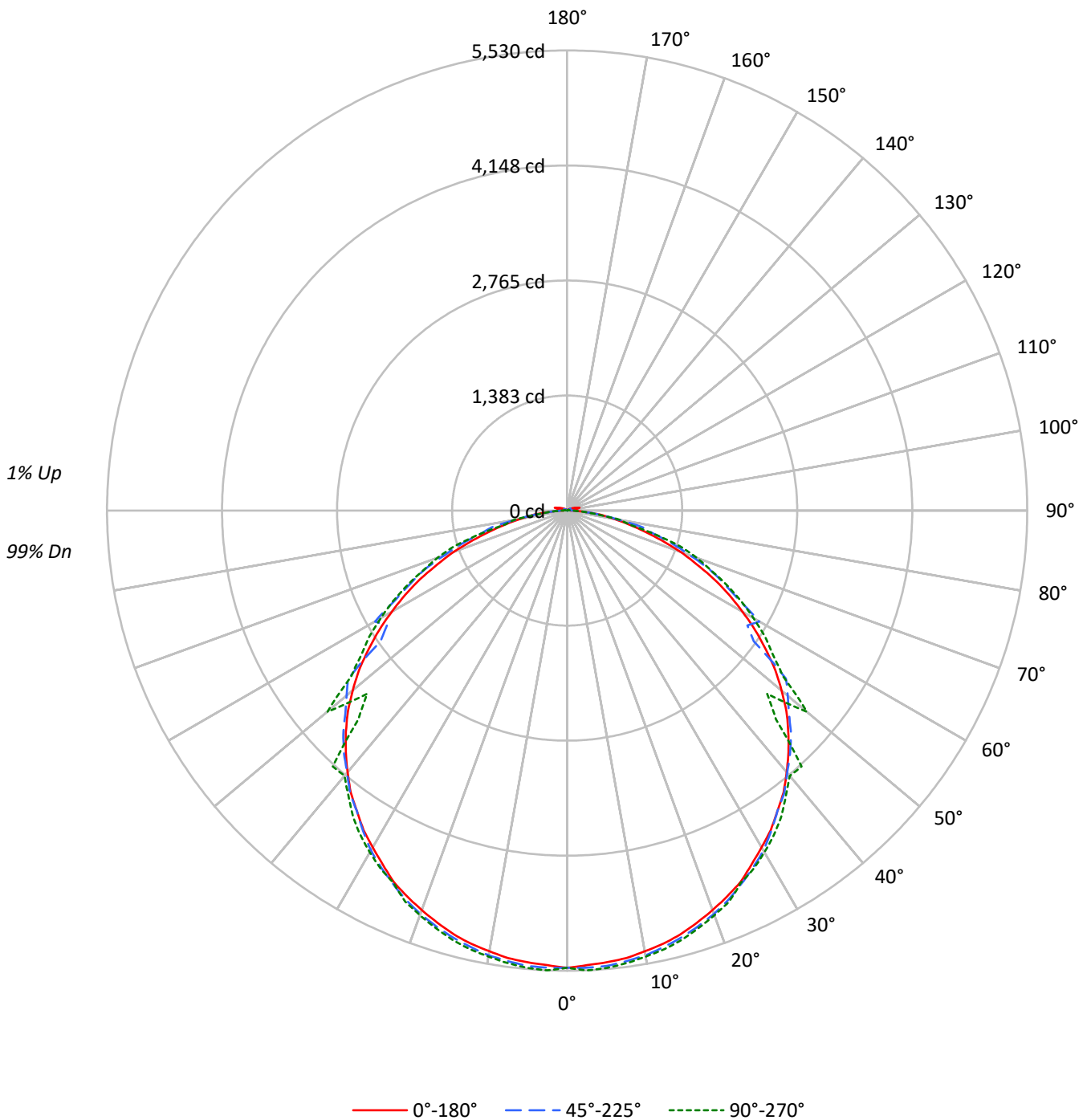
Lumens per Lamp: N/A  
Luminaire Lumens: 16230.0 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')  
CIE Type: Direct

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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99								
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83								
2	99	90	83	78	96	88	82	77	84	79	75	81	77	73	78	74	71	69								
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58								
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49								
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	45	42								
6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	50	44	39	37								
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33								
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	35	31	29								
9	56	42	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26								
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24								

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

	0°	45°	90°
0°	26215	26215	26215
5°	25829	25748	25900
10°	25519	25191	25337
15°	25228	24600	24835
20°	24856	24018	24238
25°	24567	23366	23470
30°	24081	22731	23057
35°	23682	21873	22508
40°	23230	21199	21718
45°	22650	20569	19446
50°	21846	19826	21886
55°	20699	16820	18873
60°	19219	17794	17632
65°	17468	15330	15957
70°	15189	13015	14130
75°	12077	10287	10557
80°	9293	7041	7668
85°	5863	3354	3405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	521.8	3.2
10°-20°	1498.7	9.2
20°-30°	2281.2	14.1
30°-40°	2778.9	17.1
40°-50°	2902.3	17.9
50°-60°	2655.2	16.4
60°-70°	2027.9	12.5
70°-80°	1105.6	6.8
80°-90°	298.7	1.8
90°-100°	45.7	0.3
100°-110°	55.5	0.3
110°-120°	33.4	0.2
120°-130°	15.9	0.1
130°-140°	5.5	0.0
140°-150°	1.6	0.0
150°-160°	0.8	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	4301.6	26.5
0°-40°	7080.6	43.6
0°-60°	12638.2	77.9
0°-90°	16070.3	99.0
90°-120°	134.7	0.8
90°-150°	157.7	1.0
90°-180°	160.0	1.0
0°-180°	16230.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5494	5494	5494	5494	5494	
5°	5449	5472	5492	5511	5517	518
15°	5271	5292	5311	5330	5339	1487
25°	4928	4943	4952	4966	4938	2266
35°	4407	4432	4407	4464	4489	2760
45°	3760	3777	3804	4000	3547	2898
55°	2915	2932	2738	3037	3017	2605
65°	1945	2004	2080	2087	2113	1920
75°	948	1021	1075	1073	1066	1026
85°	254	256	235	228	226	277
90°	43	73	69	67	66	33
95°	42	38	40	33	33	49
105°	133	176	22	24	24	133
115°	66	33	43	16	17	67
125°	29	24	12	7	9	28
135°	14	10	5	4	4	11
145°	5	4	2	2	2	3
155°	2	2	2	2	2	1
165°	4	4	4	4	2	1
175°	4	4	4	4	4	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5494.1	5494.1	5494.1	5494.1	5494.1
2.5°	5468.2	5482.0	5499.3	5523.5	5530.4
5°	5449.2	5471.7	5492.4	5511.4	5516.6
7.5°	5425.0	5452.7	5461.3	5485.5	5485.5
10°	5378.4	5409.5	5426.8	5442.3	5442.3
12.5°	5333.5	5355.9	5371.5	5390.5	5399.1
15°	5271.3	5292.0	5311.0	5330.0	5338.6
17.5°	5191.8	5224.6	5236.7	5252.3	5259.2
20°	5108.9	5140.0	5157.2	5171.1	5174.5
22.5°	5020.7	5044.9	5062.2	5067.4	5086.4
25°	4927.5	4943.0	4951.6	4965.5	4937.8
27.5°	4796.1	4825.5	4837.6	4825.5	4853.2
30°	4673.5	4702.8	4716.7	4720.1	4742.6
32.5°	4552.5	4573.3	4566.4	4592.3	4625.1
35°	4407.4	4431.6	4407.4	4464.4	4488.6
37.5°	4270.9	4283.0	4284.7	4341.8	4317.6
40°	4105.1	4120.6	4112.0	4148.3	4162.1
42.5°	3937.5	3951.3	3966.8	3994.5	4170.7
45°	3759.5	3776.8	3804.4	3999.7	3547.0
47.5°	3574.6	3578.1	3614.4	3315.5	3258.5
50°	3363.9	3362.1	3460.6	3147.9	3759.5
52.5°	3153.1	3151.4	3315.5	3464.1	3270.6
55°	2914.7	2931.9	2738.4	3037.3	3016.6
57.5°	2683.1	2698.7	2567.4	2774.7	2819.6
60°	2432.6	2493.1	2665.9	2584.7	2586.4
62.5°	2194.2	2247.8	2323.8	2349.7	2360.1
65°	1945.4	2004.2	2080.2	2087.1	2113.0
67.5°	1681.1	1765.7	1857.3	1845.2	1869.4
70°	1447.8	1344.2	1568.8	1579.1	1655.2
72.5°	1185.2	1309.6	1326.9	1105.7	1423.6
75°	948.5	1021.1	1074.6	1072.9	1066.0
77.5°	751.6	799.9	929.5	836.2	756.7
80°	568.4	582.2	616.8	613.3	644.4
82.5°	428.5	407.7	419.8	414.7	366.3
85°	254.0	255.7	235.0	228.1	226.3
87.5°	105.4	117.5	114.0	108.8	117.5
90°	43.2	72.6	69.1	67.4	65.7
92.5°	48.4	51.8	48.4	41.5	36.3
95°	41.5	38.0	39.7	32.8	32.8
97.5°	57.0	31.1	31.1	27.6	25.9
100°	114.0	27.6	29.4	24.2	24.2
102.5°	152.0	29.4	25.9	24.2	25.9
105°	133.0	176.2	22.5	24.2	24.2
107.5°	112.3	103.7	20.7	22.5	24.2
110°	95.0	63.9	17.3	20.7	22.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	77.7	44.9	15.5	17.3	20.7
115°	65.7	32.8	43.2	15.5	17.3
117.5°	55.3	34.6	46.6	13.8	15.5
120°	44.9	70.8	24.2	12.1	12.1
122.5°	36.3	32.8	17.3	8.6	10.4
125°	29.4	24.2	12.1	6.9	8.6
127.5°	24.2	19.0	8.6	5.2	6.9
130°	20.7	17.3	5.2	5.2	5.2
132.5°	17.3	13.8	5.2	3.5	5.2
135°	13.8	10.4	5.2	3.5	3.5
137.5°	10.4	8.6	3.5	3.5	3.5
140°	8.6	5.2	1.7	1.7	1.7
142.5°	6.9	5.2	1.7	1.7	1.7
145°	5.2	3.5	1.7	1.7	1.7
147.5°	3.5	1.7	1.7	1.7	1.7
150°	1.7	1.7	1.7	1.7	1.7
152.5°	1.7	1.7	1.7	1.7	1.7
155°	1.7	1.7	1.7	1.7	1.7
157.5°	1.7	1.7	1.7	1.7	1.7
160°	1.7	1.7	1.7	1.7	1.7
162.5°	3.5	3.5	3.5	3.5	1.7
165°	3.5	3.5	3.5	3.5	1.7
167.5°	3.5	3.5	3.5	3.5	1.7
170°	3.5	3.5	3.5	3.5	1.7
172.5°	3.5	3.5	3.5	3.5	3.5
175°	3.5	3.5	3.5	3.5	3.5
177.5°	3.5	3.5	3.5	3.5	3.5
180°	3.5	3.5	3.5	3.5	3.5

(END OF REPORT)