

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-PC-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 (G3-1801-511-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4S-LD5-15-PC-L850-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 5000K LED AND CLEAR POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Summary

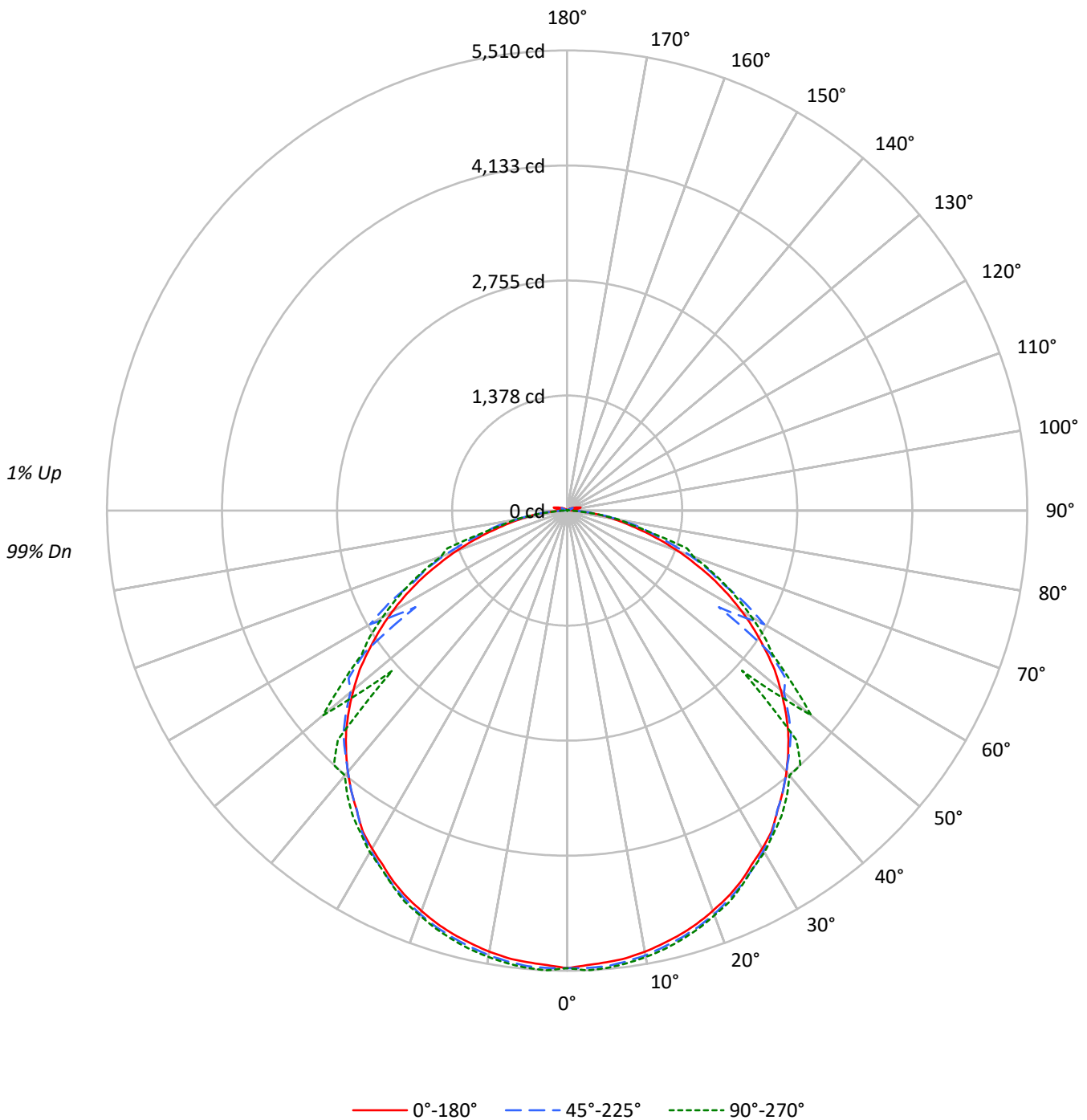
Lumens per Lamp: N/A
Luminaire Lumens: 16121.1 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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	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	85	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	52	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	40	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	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26140	26140	26140
5°	25732	25667	25811
10°	25447	25096	25270
15°	25143	24518	24735
20°	24812	23946	24160
25°	24478	23325	23535
30°	24079	22661	22970
35°	23579	21772	22425
40°	23117	21049	21608
45°	22552	20488	21276
50°	21684	19413	22217
55°	20521	18172	18791
60°	19101	18168	17391
65°	17230	14965	15669
70°	14797	12932	13701
75°	11771	9951	10508
80°	8999	7081	7484
85°	5731	3621	3170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.0	3.2
10°-20°	1494.0	9.3
20°-30°	2275.3	14.1
30°-40°	2768.4	17.2
40°-50°	2883.4	17.9
50°-60°	2635.4	16.3
60°-70°	2006.9	12.4
70°-80°	1089.3	6.8
80°-90°	300.0	1.9
90°-100°	38.5	0.2
100°-110°	52.2	0.3
110°-120°	34.9	0.2
120°-130°	13.4	0.1
130°-140°	5.4	0.0
140°-150°	1.7	0.0
150°-160°	1.0	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	4289.3	26.6
0°-40°	7057.7	43.8
0°-60°	12576.5	78.0
0°-90°	15972.8	99.1
90°-120°	125.6	0.8
90°-150°	146.2	0.9
90°-180°	148.0	0.9
0°-180°	16121.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5478	5478	5478	5478	5478	
5°	5429	5451	5475	5496	5498	516
15°	5254	5278	5293	5314	5317	1483
25°	4910	4934	4943	4952	4952	2261
35°	4388	4419	4387	4441	4472	2752
45°	3743	3752	3789	3969	3881	2881
55°	2890	2898	2958	3158	3004	2584
65°	1919	1977	2031	2073	2075	1893
75°	924	1028	1040	1061	1061	996
85°	248	270	254	211	211	268
90°	50	71	67	61	59	35
95°	40	32	34	19	18	57
105°	143	185	18	19	17	146
115°	74	46	73	10	10	74
125°	33	25	10	2	3	31
135°	14	11	4	2	2	11
145°	4	2	2	2	1	3
155°	2	2	2	2	2	1
165°	3	3	3	3	3	1
175°	3	3	3	3	3	0
180°	3	3	3	3	3	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5478.3	5478.3	5478.3	5478.3	5478.3
2.5°	5447.1	5464.3	5482.6	5501.9	5509.5
5°	5428.8	5451.4	5475.1	5495.5	5497.6
7.5°	5406.3	5428.8	5445.0	5462.2	5467.5
10°	5363.3	5395.5	5406.3	5418.1	5427.8
12.5°	5310.6	5340.7	5350.4	5374.0	5379.4
15°	5253.6	5278.3	5293.4	5313.8	5317.0
17.5°	5183.7	5208.5	5225.7	5237.5	5245.0
20°	5099.9	5120.3	5141.8	5150.4	5157.9
22.5°	5012.8	5025.7	5046.1	5060.1	5073.0
25°	4909.6	4934.3	4942.9	4951.5	4951.5
27.5°	4782.8	4819.3	4825.8	4812.9	4823.6
30°	4673.1	4697.8	4702.1	4687.1	4724.7
32.5°	4557.0	4558.1	4571.0	4567.7	4592.5
35°	4388.2	4419.4	4387.1	4440.9	4472.1
37.5°	4244.2	4270.0	4243.1	4324.8	4319.4
40°	4085.1	4109.8	4082.9	4152.8	4141.0
42.5°	3918.4	3939.9	3933.5	3965.7	4134.5
45°	3743.2	3751.8	3789.4	3969.0	3880.8
47.5°	3545.4	3552.9	3592.7	3528.2	2838.0
50°	3339.0	3346.5	3388.5	2666.0	3816.3
52.5°	3130.5	3119.7	3296.0	3585.2	3393.8
55°	2889.6	2898.2	2958.4	3158.4	3003.6
57.5°	2658.5	2677.9	2154.3	2778.9	2794.0
60°	2417.7	2453.2	2721.9	2543.5	2551.0
62.5°	2168.3	2228.5	2407.0	2309.1	2316.7
65°	1918.9	1977.0	2030.7	2072.6	2074.8
67.5°	1653.4	1742.6	1811.4	1795.3	1839.4
70°	1410.4	1369.6	1558.8	1553.4	1605.0
72.5°	1158.9	1258.8	1280.3	1111.6	1506.1
75°	924.5	1027.7	1039.5	1061.0	1061.0
77.5°	716.0	776.2	865.4	823.5	793.4
80°	550.4	567.6	620.3	639.6	628.9
82.5°	409.6	385.9	427.9	446.1	404.2
85°	248.3	269.8	253.7	210.7	210.7
87.5°	102.1	129.0	114.0	104.3	92.5
90°	49.5	71.0	66.7	61.3	59.1
92.5°	51.6	49.5	35.5	24.7	19.4
95°	39.8	32.3	34.4	19.4	18.3
97.5°	75.3	23.7	23.7	17.2	14.0
100°	139.8	20.4	21.5	17.2	11.8
102.5°	166.6	30.1	21.5	17.2	17.2
105°	143.0	184.9	18.3	19.4	17.2
107.5°	121.5	83.9	14.0	17.2	19.4
110°	102.1	59.1	11.8	16.1	18.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	86.0	44.1	11.8	11.8	16.1
115°	74.2	46.2	73.1	9.7	9.7
117.5°	62.4	73.1	32.3	7.5	9.7
120°	50.5	41.9	19.4	9.7	6.5
122.5°	39.8	31.2	12.9	3.2	6.5
125°	33.3	24.7	9.7	2.2	3.2
127.5°	26.9	20.4	6.5	2.2	2.2
130°	21.5	19.4	4.3	2.2	2.2
132.5°	18.3	14.0	11.8	2.2	2.2
135°	14.0	10.8	4.3	2.2	2.2
137.5°	10.8	8.6	3.2	2.2	2.2
140°	8.6	6.5	2.2	2.2	1.1
142.5°	6.5	4.3	2.2	2.2	1.1
145°	4.3	2.2	2.2	2.2	1.1
147.5°	3.2	2.2	2.2	2.2	2.2
150°	2.2	2.2	2.2	2.2	2.2
152.5°	2.2	2.2	2.2	2.2	2.2
155°	2.2	2.2	2.2	2.2	2.2
157.5°	2.2	2.2	2.2	2.2	2.2
160°	2.2	2.2	2.2	2.2	2.2
162.5°	3.2	3.2	3.2	3.2	2.2
165°	3.2	3.2	3.2	3.2	3.2
167.5°	3.2	3.2	3.2	3.2	3.2
170°	3.2	3.2	3.2	3.2	3.2
172.5°	3.2	3.2	3.2	3.2	3.2
175°	3.2	3.2	3.2	3.2	3.2
177.5°	3.2	3.2	3.2	3.2	3.2
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)