

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-L835-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-L835-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND CLEAR POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Summary

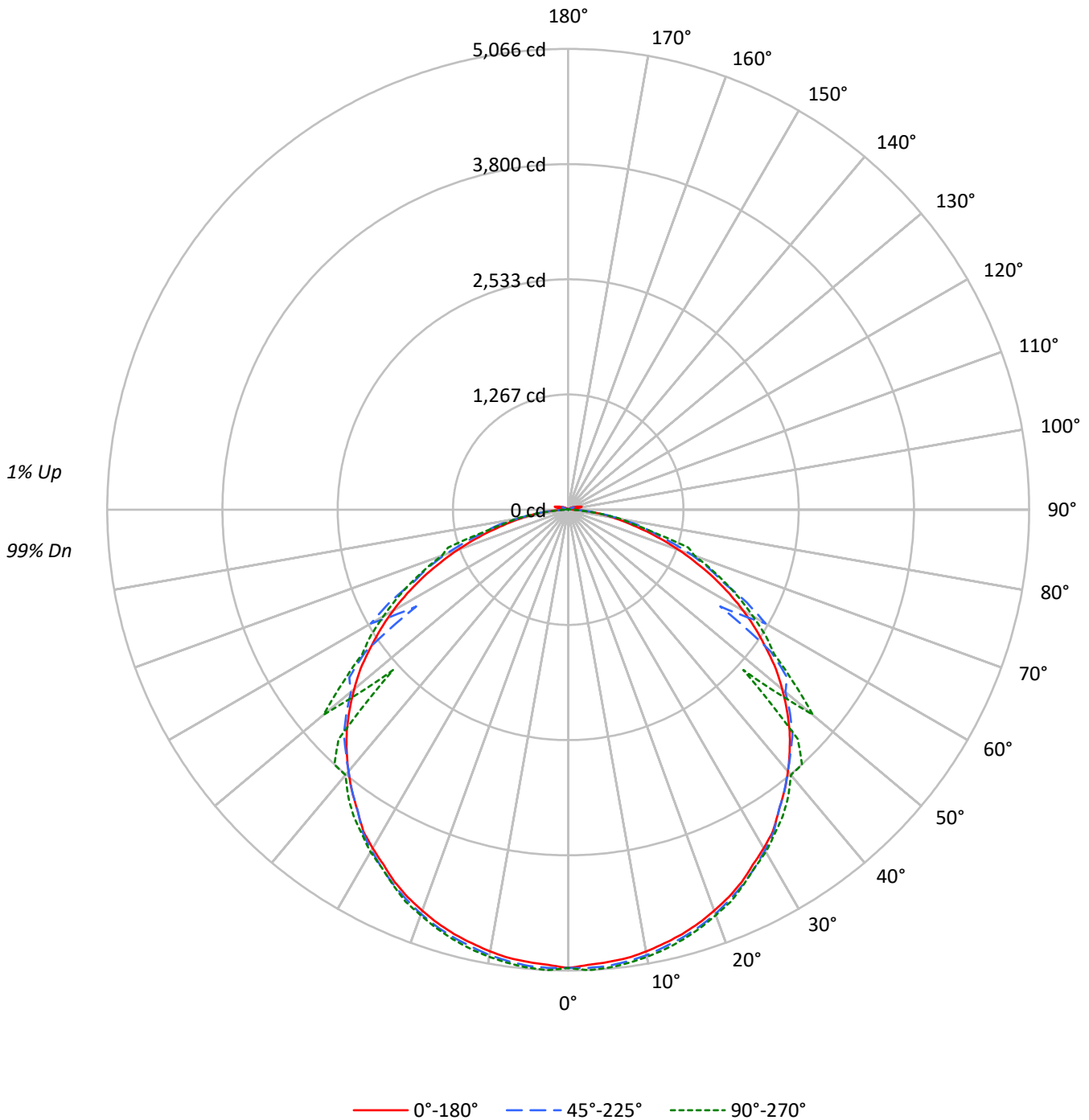
Lumens per Lamp: N/A
Luminaire Lumens: 14824.1 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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°	24036	24036	24036
5°	23662	23602	23734
10°	23400	23077	23236
15°	23120	22546	22745
20°	22816	22020	22217
25°	22508	21448	21642
30°	22141	20838	21122
35°	21682	20021	20621
40°	21257	19356	19869
45°	20738	18840	19564
50°	19940	17851	20430
55°	18870	16710	17279
60°	17565	16707	15992
65°	15844	13761	14408
70°	13606	11891	12599
75°	10824	9150	9663
80°	8274	6512	6881
85°	5270	3330	2916



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.2	3.2
10°-20°	1373.8	9.3
20°-30°	2092.2	14.1
30°-40°	2545.7	17.2
40°-50°	2651.4	17.9
50°-60°	2423.4	16.3
60°-70°	1845.4	12.4
70°-80°	1001.7	6.8
80°-90°	275.8	1.9
90°-100°	35.3	0.2
100°-110°	48.0	0.3
110°-120°	32.1	0.2
120°-130°	12.4	0.1
130°-140°	5.0	0.0
140°-150°	1.6	0.0
150°-160°	0.9	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	3944.2	26.6
0°-40°	6489.9	43.8
0°-60°	11564.7	78.0
0°-90°	14687.7	99.1
90°-120°	115.4	0.8
90°-150°	134.4	0.9
90°-180°	136.0	0.9
0°-180°	14824.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5038	5038	5038	5038	5038	
5°	4992	5013	5035	5053	5055	475
15°	4831	4854	4868	4886	4889	1364
25°	4515	4537	4545	4553	4553	2079
35°	4035	4064	4034	4084	4112	2530
45°	3442	3450	3485	3650	3569	2649
55°	2657	2665	2720	2904	2762	2376
65°	1764	1818	1867	1906	1908	1741
75°	850	945	956	976	976	916
85°	228	248	233	194	194	246
90°	46	65	61	56	54	32
95°	37	30	32	18	17	53
105°	132	170	17	18	16	134
115°	68	42	67	9	9	68
125°	31	23	9	2	3	28
135°	13	10	4	2	2	10
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5037.5	5037.5	5037.5	5037.5	5037.5
2.5°	5008.9	5024.7	5041.5	5059.3	5066.2
5°	4992.1	5012.8	5034.6	5053.4	5055.3
7.5°	4971.3	4992.1	5006.9	5022.7	5027.7
10°	4931.8	4961.4	4971.3	4982.2	4991.1
12.5°	4883.3	4911.0	4919.9	4941.7	4946.6
15°	4830.9	4853.7	4867.5	4886.3	4889.3
17.5°	4766.7	4789.4	4805.2	4816.1	4823.0
20°	4689.6	4708.4	4728.1	4736.0	4743.0
22.5°	4609.5	4621.4	4640.1	4653.0	4664.9
25°	4514.6	4537.3	4545.3	4553.2	4553.2
27.5°	4398.0	4431.6	4437.5	4425.6	4435.5
30°	4297.1	4319.9	4323.8	4310.0	4344.6
32.5°	4190.4	4191.4	4203.2	4200.3	4223.0
35°	4035.2	4063.8	4034.2	4083.6	4112.3
37.5°	3902.7	3926.4	3901.7	3976.8	3971.9
40°	3756.4	3779.1	3754.4	3818.7	3807.8
42.5°	3603.2	3623.0	3617.0	3646.7	3801.9
45°	3442.1	3450.0	3484.6	3649.6	3568.6
47.5°	3260.2	3267.1	3303.7	3244.3	2609.7
50°	3070.4	3077.3	3115.8	2451.5	3509.3
52.5°	2878.6	2868.7	3030.8	3296.7	3120.8
55°	2657.2	2665.1	2720.4	2904.3	2761.9
57.5°	2444.6	2462.4	1981.0	2555.3	2569.2
60°	2223.2	2255.8	2503.0	2338.9	2345.8
62.5°	1993.9	2049.2	2213.3	2123.4	2130.3
65°	1764.5	1817.9	1867.3	1905.9	1907.9
67.5°	1520.4	1602.4	1665.7	1650.8	1691.4
70°	1296.9	1259.4	1433.4	1428.4	1475.9
72.5°	1065.6	1157.6	1177.3	1022.1	1384.9
75°	850.1	945.0	955.9	975.7	975.7
77.5°	658.4	713.7	795.8	757.2	729.5
80°	506.1	521.9	570.4	588.2	578.3
82.5°	376.6	354.9	393.4	410.2	371.7
85°	228.3	248.1	233.3	193.8	193.8
87.5°	93.9	118.6	104.8	95.9	85.0
90°	45.5	65.2	61.3	56.3	54.4
92.5°	47.4	45.5	32.6	22.7	17.8
95°	36.6	29.7	31.6	17.8	16.8
97.5°	69.2	21.7	21.7	15.8	12.9
100°	128.5	18.8	19.8	15.8	10.9
102.5°	153.2	27.7	19.8	15.8	15.8
105°	131.5	170.0	16.8	17.8	15.8
107.5°	111.7	77.1	12.9	15.8	17.8
110°	93.9	54.4	10.9	14.8	16.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.1	40.5	10.9	10.9	14.8
115°	68.2	42.5	67.2	8.9	8.9
117.5°	57.3	67.2	29.7	6.9	8.9
120°	46.5	38.6	17.8	8.9	5.9
122.5°	36.6	28.7	11.9	3.0	5.9
125°	30.6	22.7	8.9	2.0	3.0
127.5°	24.7	18.8	5.9	2.0	2.0
130°	19.8	17.8	4.0	2.0	2.0
132.5°	16.8	12.9	10.9	2.0	2.0
135°	12.9	9.9	4.0	2.0	2.0
137.5°	9.9	7.9	3.0	2.0	2.0
140°	7.9	5.9	2.0	2.0	1.0
142.5°	5.9	4.0	2.0	2.0	1.0
145°	4.0	2.0	2.0	2.0	1.0
147.5°	3.0	2.0	2.0	2.0	2.0
150°	2.0	2.0	2.0	2.0	2.0
152.5°	2.0	2.0	2.0	2.0	2.0
155°	2.0	2.0	2.0	2.0	2.0
157.5°	2.0	2.0	2.0	2.0	2.0
160°	2.0	2.0	2.0	2.0	2.0
162.5°	3.0	3.0	3.0	3.0	2.0
165°	3.0	3.0	3.0	3.0	3.0
167.5°	3.0	3.0	3.0	3.0	3.0
170°	3.0	3.0	3.0	3.0	3.0
172.5°	3.0	3.0	3.0	3.0	3.0
175°	3.0	3.0	3.0	3.0	3.0
177.5°	3.0	3.0	3.0	3.0	3.0
180°	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)