

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: **VT4S-LD5-15-PC-L835-CD2-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**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: VT4S-LD5-15-PC-L835-CD2-U  
Description: VT4S VAPORTIGHT FIXTURE WITH 3500K LED AND CLEAR POLYCARBONATE LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

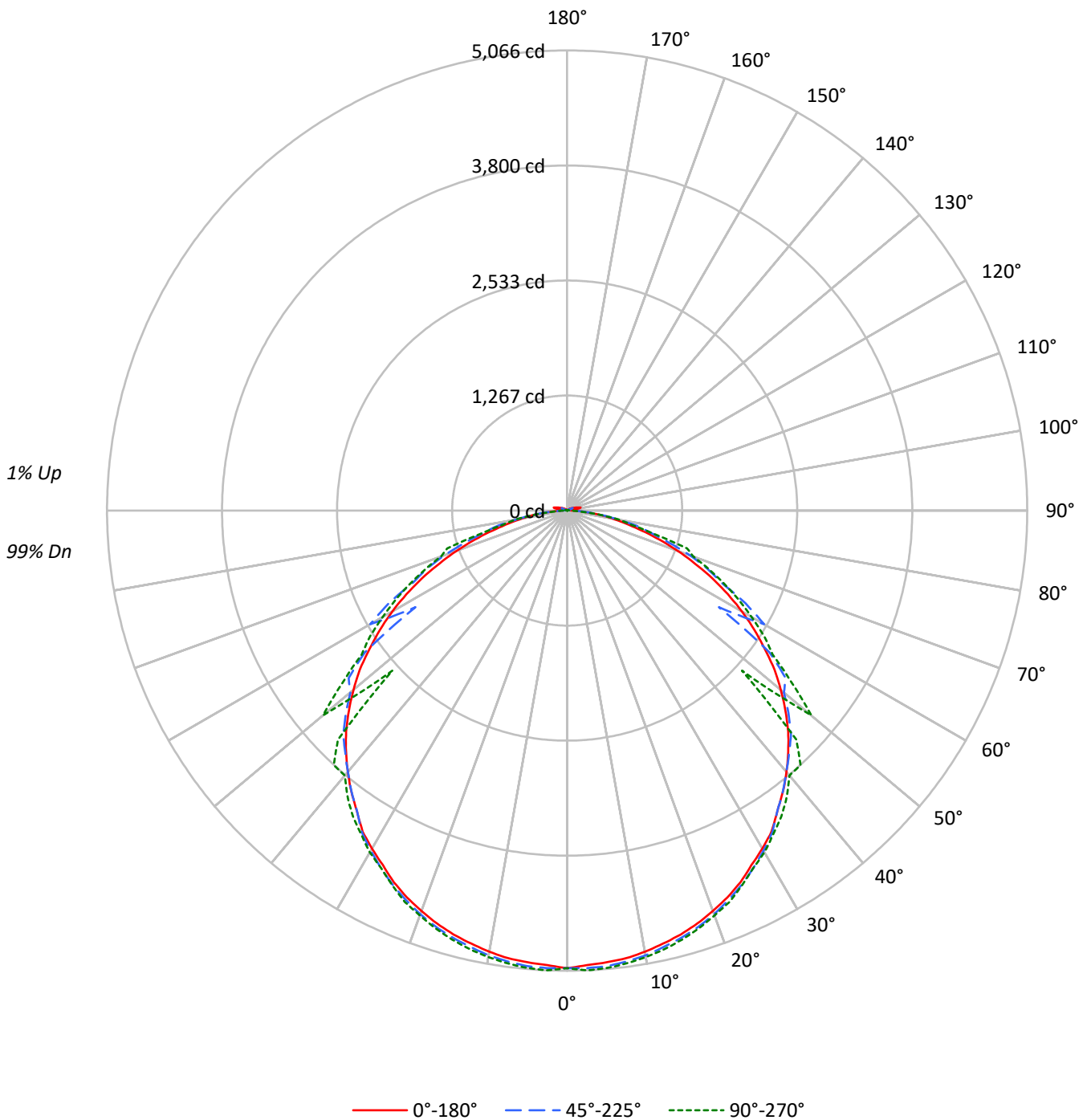
**Summary**

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)