

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-L840-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-L840-CD2-U  
Description: VT4S VAPORTIGHT FIXTURE WITH 4000K LED AND CLEAR POLYCARBONATE LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

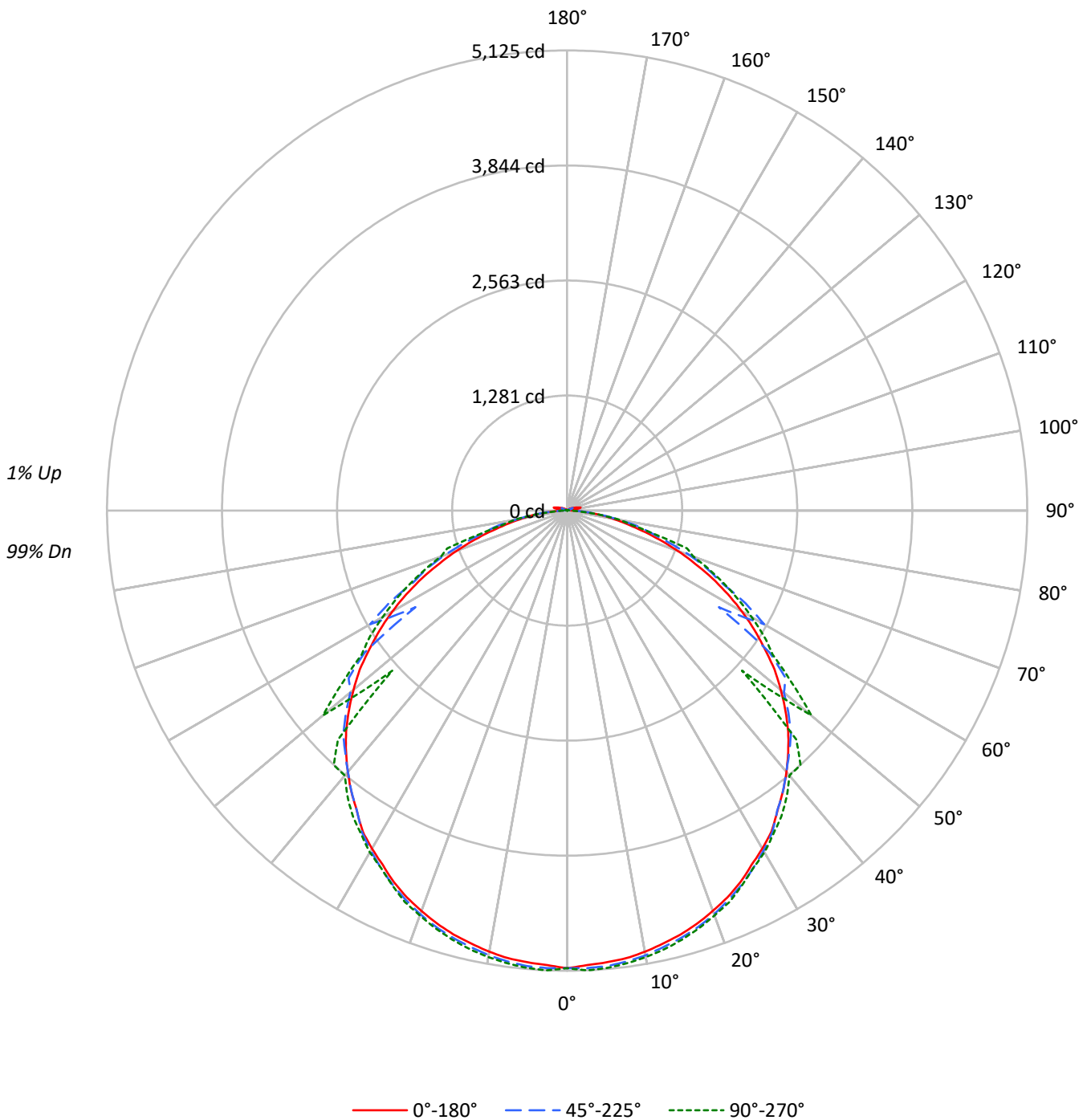
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14996.0 lumens  
Efficiency: N/A  
Efficacy: 138.5 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°	24315	24315	24315
5°	23937	23876	24010
10°	23671	23345	23506
15°	23389	22807	23009
20°	23080	22275	22475
25°	22770	21697	21893
30°	22398	21080	21367
35°	21934	20253	20860
40°	21504	19580	20100
45°	20978	19058	19791
50°	20171	18058	20667
55°	19089	16904	17480
60°	17768	16900	16177
65°	16028	13921	14575
70°	13765	12029	12745
75°	10950	9257	9775
80°	8371	6587	6961
85°	5332	3368	2949



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.7	3.2
10°-20°	1389.8	9.3
20°-30°	2116.5	14.1
30°-40°	2575.2	17.2
40°-50°	2682.2	17.9
50°-60°	2451.5	16.3
60°-70°	1866.9	12.4
70°-80°	1013.3	6.8
80°-90°	279.0	1.9
90°-100°	35.8	0.2
100°-110°	48.6	0.3
110°-120°	32.4	0.2
120°-130°	12.5	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°	3990.0	26.6
0°-40°	6565.2	43.8
0°-60°	11698.9	78.0
0°-90°	14858.2	99.1
90°-120°	116.8	0.8
90°-150°	135.9	0.9
90°-180°	138.0	0.9
0°-180°	14996.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5096	5096	5096	5096	5096	
5°	5050	5071	5093	5112	5114	480
15°	4887	4910	4924	4943	4946	1380
25°	4567	4590	4598	4606	4606	2103
35°	4082	4111	4081	4131	4160	2560
45°	3482	3490	3525	3692	3610	2680
55°	2688	2696	2752	2938	2794	2404
65°	1785	1839	1889	1928	1930	1761
75°	860	956	967	987	987	927
85°	231	251	236	196	196	249
90°	46	66	62	57	55	32
95°	37	30	32	18	17	53
105°	133	172	17	18	16	136
115°	69	43	68	9	9	69
125°	31	23	9	2	3	29
135°	13	10	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5096	5096	5096	5096	5096
2.5°	5067	5083	5100	5118	5125
5°	5050	5071	5093	5112	5114
7.5°	5029	5050	5065	5081	5086
10°	4989	5019	5029	5040	5049
12.5°	4940	4968	4977	4999	5004
15°	4887	4910	4924	4943	4946
17.5°	4822	4845	4861	4872	4879
20°	4744	4763	4783	4791	4798
22.5°	4663	4675	4694	4707	4719
25°	4567	4590	4598	4606	4606
27.5°	4449	4483	4489	4477	4487
30°	4347	4370	4374	4360	4395
32.5°	4239	4240	4252	4249	4272
35°	4082	4111	4081	4131	4160
37.5°	3948	3972	3947	4023	4018
40°	3800	3823	3798	3863	3852
42.5°	3645	3665	3659	3689	3846
45°	3482	3490	3525	3692	3610
47.5°	3298	3305	3342	3282	2640
50°	3106	3113	3152	2480	3550
52.5°	2912	2902	3066	3335	3157
55°	2688	2696	2752	2938	2794
57.5°	2473	2491	2004	2585	2599
60°	2249	2282	2532	2366	2373
62.5°	2017	2073	2239	2148	2155
65°	1785	1839	1889	1928	1930
67.5°	1538	1621	1685	1670	1711
70°	1312	1274	1450	1445	1493
72.5°	1078	1171	1191	1034	1401
75°	860	956	967	987	987
77.5°	666	722	805	766	738
80°	512	528	577	595	585
82.5°	381	359	398	415	376
85°	231	251	236	196	196
87.5°	95	120	106	97	86
90°	46	66	62	57	55
92.5°	48	46	33	23	18
95°	37	30	32	18	17
97.5°	70	22	22	16	13
100°	130	19	20	16	11
102.5°	155	28	20	16	16
105°	133	172	17	18	16
107.5°	113	78	13	16	18
110°	95	55	11	15	17



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	80	41	11	11	15
115°	69	43	68	9	9
117.5°	58	68	30	7	9
120°	47	39	18	9	6
122.5°	37	29	12	3	6
125°	31	23	9	2	3
127.5°	25	19	6	2	2
130°	20	18	4	2	2
132.5°	17	13	11	2	2
135°	13	10	4	2	2
137.5°	10	8	3	2	2
140°	8	6	2	2	1
142.5°	6	4	2	2	1
145°	4	2	2	2	1
147.5°	3	2	2	2	2
150°	2	2	2	2	2
152.5°	2	2	2	2	2
155°	2	2	2	2	2
157.5°	2	2	2	2	2
160°	2	2	2	2	2
162.5°	3	3	3	3	2
165°	3	3	3	3	3
167.5°	3	3	3	3	3
170°	3	3	3	3	3
172.5°	3	3	3	3	3
175°	3	3	3	3	3
177.5°	3	3	3	3	3
180°	3	3	3	3	3

(END OF REPORT)