

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-DR-L850-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 (G3-1801-511-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT4S-LD5-15-DR-L850-CD2-U
Description: VT4S VAPORTIGHT FIXTURE WITH 5000K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

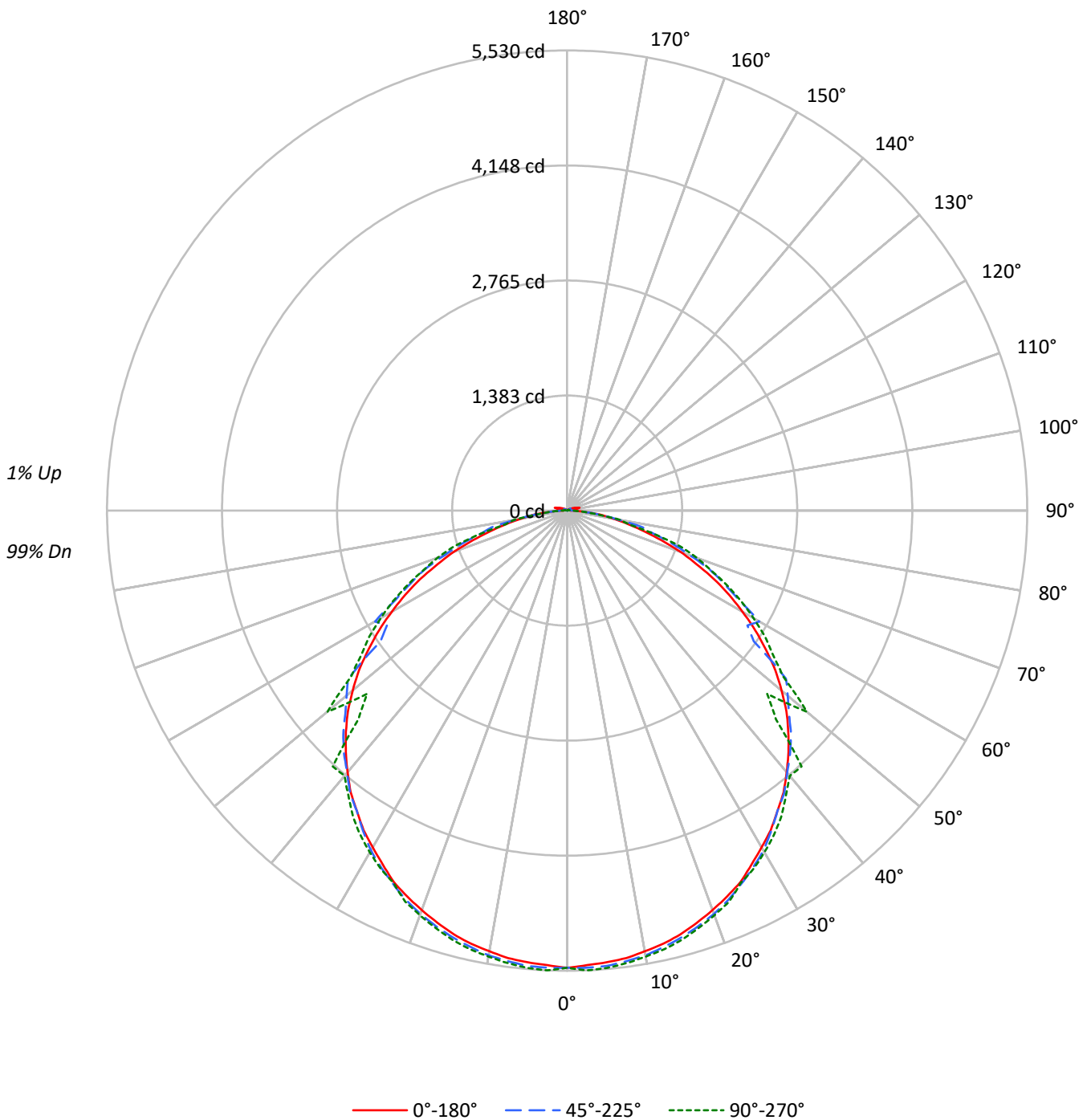
Lumens per Lamp: N/A
Luminaire Lumens: 16230.0 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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	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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CATALOG NUMBER: VT4S-LD5-15-DR-L850-CD2-U

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)