

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-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 (G3-1801-511-1)
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-L840-CD2-U
Description: VT4S VAPORTIGHT FIXTURE WITH 4000K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

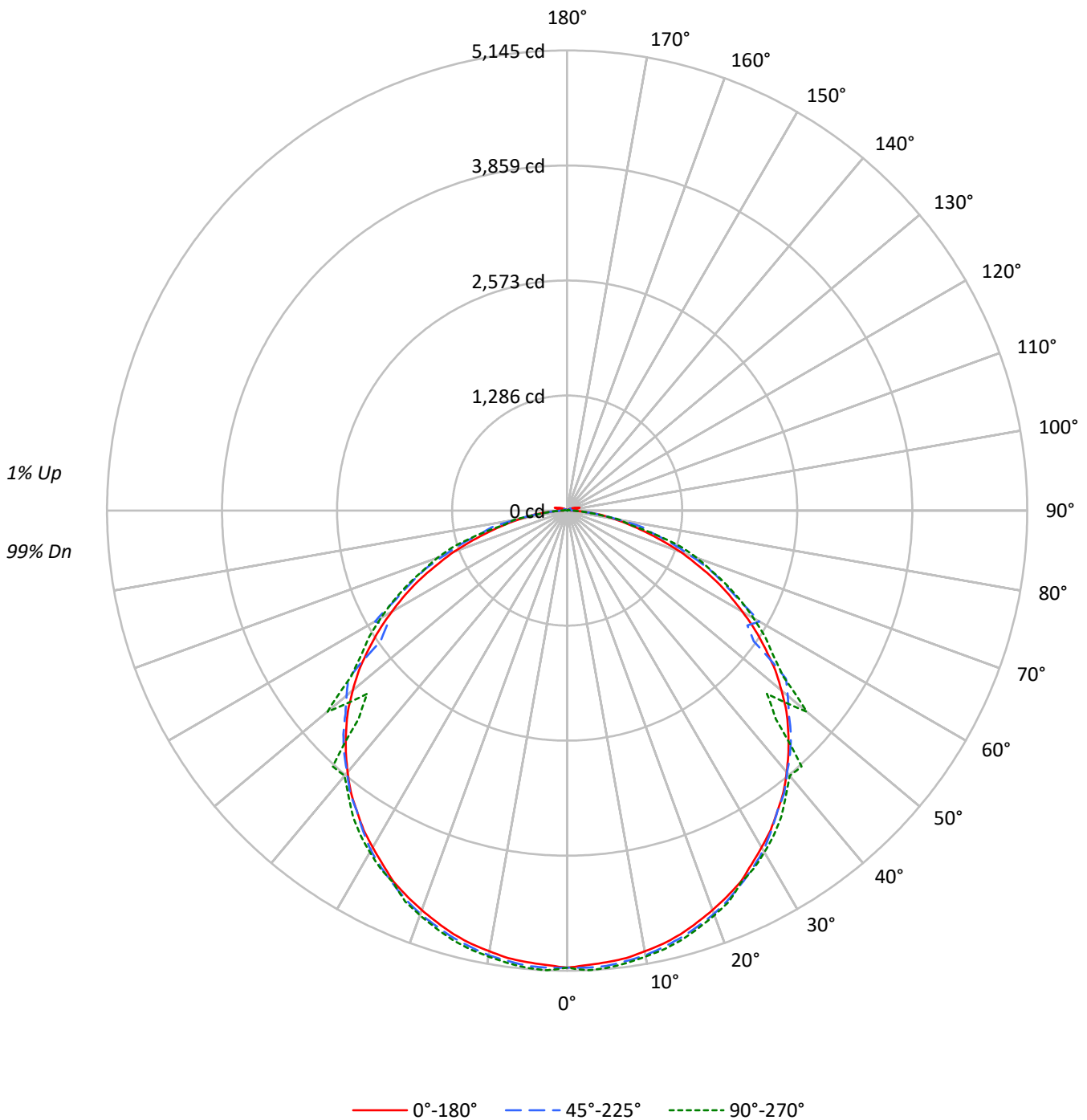
Lumens per Lamp: N/A
Luminaire Lumens: 15098.0 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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°	24387	24387	24387
5°	24028	23952	24093
10°	23739	23434	23570
15°	23468	22884	23103
20°	23122	22343	22548
25°	22853	21736	21833
30°	22401	21146	21449
35°	22031	20347	20938
40°	21609	19721	20203
45°	21071	19134	18090
50°	20322	18443	20360
55°	19255	15647	17556
60°	17879	16553	16402
65°	16250	14261	14844
70°	14130	12107	13144
75°	11235	9570	9821
80°	8646	6550	7134
85°	5454	3120	3167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.4	3.2
10°-20°	1394.1	9.2
20°-30°	2122.1	14.1
30°-40°	2585.1	17.1
40°-50°	2699.9	17.9
50°-60°	2470.0	16.4
60°-70°	1886.4	12.5
70°-80°	1028.5	6.8
80°-90°	277.9	1.8
90°-100°	42.5	0.3
100°-110°	51.7	0.3
110°-120°	31.1	0.2
120°-130°	14.8	0.1
130°-140°	5.1	0.0
140°-150°	1.5	0.0
150°-160°	0.7	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	4001.6	26.5
0°-40°	6586.7	43.6
0°-60°	11756.7	77.9
0°-90°	14949.5	99.0
90°-120°	125.3	0.8
90°-150°	146.7	1.0
90°-180°	149.0	1.0
0°-180°	15098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5111	5111	5111	5111	5111	
5°	5069	5090	5109	5127	5132	482
15°	4904	4923	4941	4958	4966	1383
25°	4584	4598	4606	4619	4593	2108
35°	4100	4122	4100	4153	4176	2568
45°	3497	3513	3539	3721	3300	2695
55°	2711	2727	2547	2826	2806	2423
65°	1810	1864	1935	1942	1966	1786
75°	882	950	1000	998	992	955
85°	236	238	219	212	210	258
90°	40	68	64	63	61	31
95°	39	35	37	30	30	45
105°	124	164	21	22	22	124
115°	61	30	40	14	16	62
125°	27	22	11	6	8	26
135°	13	10	5	3	3	10
145°	5	3	2	2	2	3
155°	2	2	2	2	2	1
165°	3	3	3	3	2	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°	5110.9	5110.9	5110.9	5110.9	5110.9
2.5°	5086.8	5099.7	5115.8	5138.3	5144.7
5°	5069.2	5090.0	5109.3	5127.0	5131.8
7.5°	5046.7	5072.4	5080.4	5102.9	5102.9
10°	5003.3	5032.2	5048.3	5062.7	5062.7
12.5°	4961.5	4982.4	4996.8	5014.5	5022.5
15°	4903.6	4922.9	4940.6	4958.3	4966.3
17.5°	4829.7	4860.2	4871.5	4885.9	4892.4
20°	4752.5	4781.5	4797.5	4810.4	4813.6
22.5°	4670.6	4693.1	4709.1	4714.0	4731.6
25°	4583.8	4598.2	4606.3	4619.1	4593.4
27.5°	4461.6	4488.9	4500.2	4488.9	4514.7
30°	4347.5	4374.8	4387.7	4390.9	4411.8
32.5°	4235.0	4254.3	4247.9	4272.0	4302.5
35°	4100.0	4122.5	4100.0	4153.0	4175.5
37.5°	3973.0	3984.3	3985.9	4038.9	4016.4
40°	3818.7	3833.2	3825.2	3858.9	3871.8
42.5°	3662.8	3675.7	3690.2	3715.9	3879.8
45°	3497.3	3513.4	3539.1	3720.7	3299.6
47.5°	3325.3	3328.5	3362.3	3084.2	3031.2
50°	3129.2	3127.6	3219.2	2928.3	3497.3
52.5°	2933.2	2931.6	3084.2	3222.5	3042.5
55°	2711.4	2727.4	2547.4	2825.5	2806.2
57.5°	2496.0	2510.5	2388.3	2581.2	2623.0
60°	2263.0	2319.2	2479.9	2404.4	2406.0
62.5°	2041.2	2091.0	2161.7	2185.8	2195.5
65°	1809.7	1864.4	1935.1	1941.5	1965.6
67.5°	1563.8	1642.6	1727.8	1716.5	1739.0
70°	1346.8	1250.4	1459.4	1469.0	1539.7
72.5°	1102.5	1218.3	1234.3	1028.6	1324.3
75°	882.4	949.9	999.7	998.1	991.7
77.5°	699.1	744.1	864.7	777.9	704.0
80°	528.8	541.6	573.8	570.6	599.5
82.5°	398.6	379.3	390.6	385.7	340.7
85°	236.3	237.9	218.6	212.2	210.5
87.5°	98.0	109.3	106.1	101.3	109.3
90°	40.2	67.5	64.3	62.7	61.1
92.5°	45.0	48.2	45.0	38.6	33.8
95°	38.6	35.4	37.0	30.5	30.5
97.5°	53.0	28.9	28.9	25.7	24.1
100°	106.1	25.7	27.3	22.5	22.5
102.5°	141.4	27.3	24.1	22.5	24.1
105°	123.8	163.9	20.9	22.5	22.5
107.5°	104.5	96.4	19.3	20.9	22.5
110°	88.4	59.5	16.1	19.3	20.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	72.3	41.8	14.5	16.1	19.3
115°	61.1	30.5	40.2	14.5	16.1
117.5°	51.4	32.1	43.4	12.9	14.5
120°	41.8	65.9	22.5	11.3	11.3
122.5°	33.8	30.5	16.1	8.0	9.6
125°	27.3	22.5	11.3	6.4	8.0
127.5°	22.5	17.7	8.0	4.8	6.4
130°	19.3	16.1	4.8	4.8	4.8
132.5°	16.1	12.9	4.8	3.2	4.8
135°	12.9	9.6	4.8	3.2	3.2
137.5°	9.6	8.0	3.2	3.2	3.2
140°	8.0	4.8	1.6	1.6	1.6
142.5°	6.4	4.8	1.6	1.6	1.6
145°	4.8	3.2	1.6	1.6	1.6
147.5°	3.2	1.6	1.6	1.6	1.6
150°	1.6	1.6	1.6	1.6	1.6
152.5°	1.6	1.6	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	1.6
157.5°	1.6	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6
162.5°	3.2	3.2	3.2	3.2	1.6
165°	3.2	3.2	3.2	3.2	1.6
167.5°	3.2	3.2	3.2	3.2	1.6
170°	3.2	3.2	3.2	3.2	1.6
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)