

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-DRF-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 (G3-1801-511-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT4S-LD5-15-DRF-L835-CD2-U
Description: VT4S VAPORTIGHT FIXTURE WITH 3500K LED AND FROSTED ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

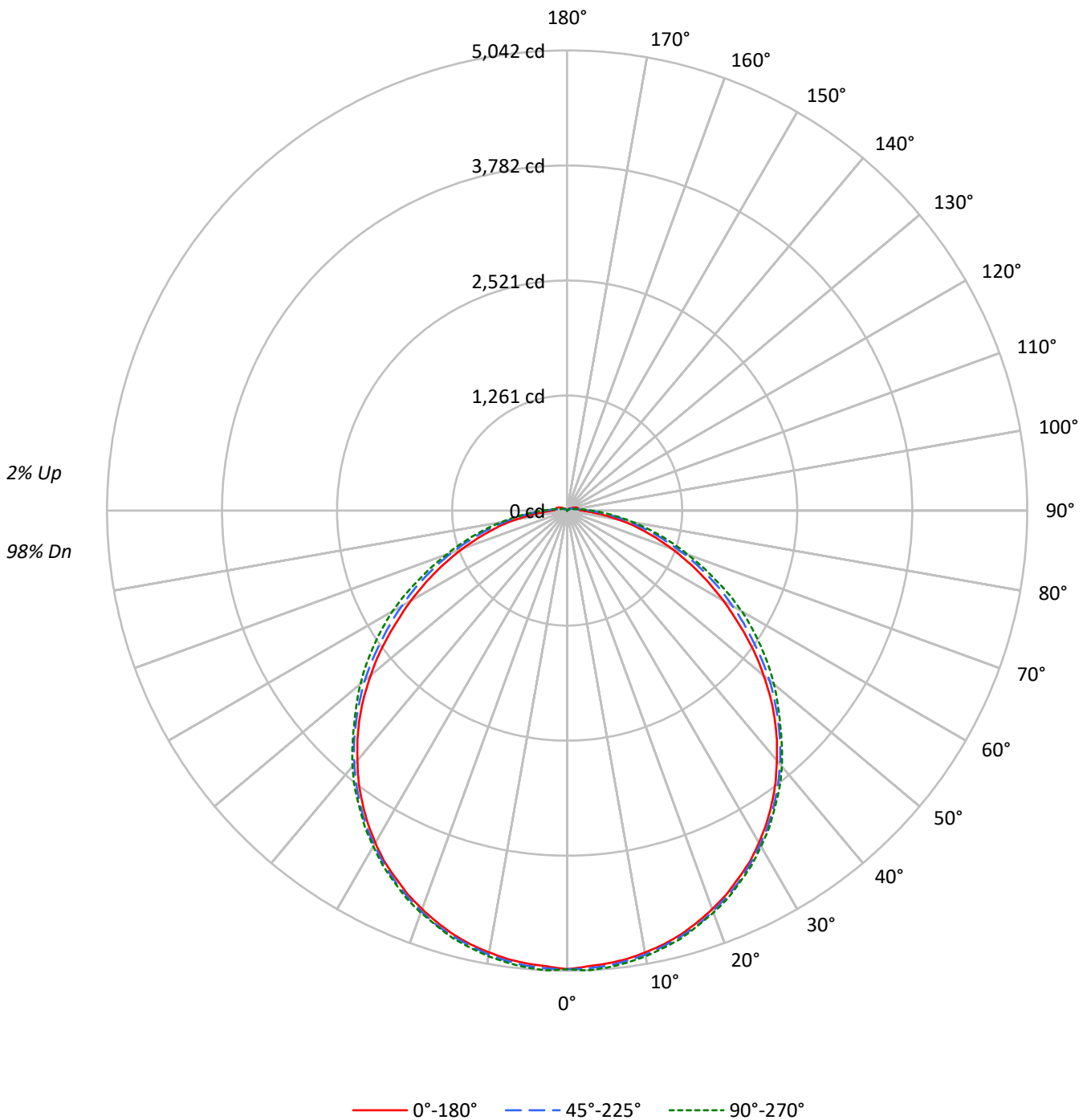
Lumens per Lamp: N/A
Luminaire Lumens: 14651.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83
2	98	89	82	77	95	87	81	75	83	78	73	80	75	71	76	73	69
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	63	59
4	82	69	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39
7	64	51	42	36	62	50	41	36	48	41	35	46	40	35	45	39	34
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23974	23974	23974
5°	23619	23476	23599
10°	23329	22929	23088
15°	23015	22366	22561
20°	22613	21761	21961
25°	22153	21112	21331
30°	21662	20380	20660
35°	21018	19593	19896
40°	20227	18708	19100
45°	19379	17684	18090
50°	18251	16588	17218
55°	16974	15258	16197
60°	15627	13968	15075
65°	14245	12631	13519
70°	12776	11120	11991
75°	11213	9472	10455
80°	9340	7775	8787
85°	6936	6039	6915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.7	3.2
10°-20°	1361.9	9.3
20°-30°	2059.5	14.1
30°-40°	2466.9	16.8
40°-50°	2519.6	17.2
50°-60°	2230.7	15.2
60°-70°	1690.9	11.5
70°-80°	1042.3	7.1
80°-90°	461.1	3.1
90°-100°	165.7	1.1
100°-110°	88.8	0.6
110°-120°	53.0	0.4
120°-130°	24.4	0.2
130°-140°	7.6	0.1
140°-150°	1.4	0.0
150°-160°	0.7	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	3897.2	26.6
0°-40°	6364.0	43.4
0°-60°	11114.4	75.9
0°-90°	14308.7	97.7
90°-120°	307.5	2.1
90°-150°	340.9	2.3
90°-180°	342.0	2.3
0°-180°	14651.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5024	5024	5024	5024	5024	
5°	4983	4993	5008	5022	5026	474
15°	4809	4813	4829	4840	4850	1356
25°	4443	4456	4474	4488	4488	2049
35°	3912	3924	3948	3976	3968	2445
45°	3217	3234	3271	3308	3300	2475
55°	2390	2438	2484	2562	2589	2138
65°	1586	1628	1714	1780	1790	1573
75°	881	922	990	1042	1056	938
85°	300	360	423	460	460	306
90°	158	199	245	267	266	91
95°	130	130	142	156	155	105
105°	116	99	73	67	68	121
115°	76	61	48	42	44	77
125°	40	33	22	20	24	37
135°	18	15	5	5	8	15
145°	6	4	1	0	0	4
155°	2	2	2	1	0	1
165°	3	3	2	1	1	1
175°	3	3	3	2	1	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5024.5	5024.5	5024.5	5024.5	5024.5
2.5°	4999.8	5005.7	5021.6	5037.4	5042.3
5°	4983.0	4992.9	5007.7	5021.6	5026.5
7.5°	4958.3	4966.2	4979.0	4992.9	4996.8
10°	4916.8	4925.7	4939.5	4952.4	4959.3
12.5°	4870.3	4874.3	4887.1	4901.9	4905.9
15°	4809.0	4813.0	4828.8	4839.7	4849.6
17.5°	4732.9	4736.9	4760.6	4765.5	4766.5
20°	4647.9	4653.8	4672.6	4681.5	4688.4
22.5°	4555.0	4562.9	4577.7	4588.6	4598.5
25°	4443.3	4456.1	4473.9	4487.8	4487.8
27.5°	4335.5	4337.5	4354.3	4369.1	4379.0
30°	4204.1	4206.0	4228.8	4245.6	4249.5
32.5°	4064.7	4072.6	4096.3	4114.1	4119.1
35°	3911.5	3924.3	3948.0	3975.7	3967.8
37.5°	3752.3	3759.2	3792.9	3815.6	3824.5
40°	3574.4	3594.2	3628.8	3653.5	3660.4
42.5°	3400.4	3418.2	3455.8	3479.5	3482.5
45°	3216.6	3234.4	3270.9	3308.5	3299.6
47.5°	3017.9	3045.6	3082.1	3121.7	3128.6
50°	2810.3	2850.8	2895.3	2927.9	2957.6
52.5°	2606.7	2639.3	2690.7	2749.0	2776.7
55°	2390.2	2437.6	2484.1	2562.2	2588.9
57.5°	2175.7	2233.0	2290.3	2376.3	2400.1
60°	1978.0	2023.4	2092.6	2176.7	2211.3
62.5°	1776.3	1828.7	1905.8	1982.9	2006.6
65°	1586.5	1628.1	1714.0	1780.3	1790.2
67.5°	1395.8	1445.2	1526.2	1595.4	1599.4
70°	1217.8	1262.3	1340.4	1398.7	1404.7
72.5°	1045.8	1091.3	1157.5	1216.8	1228.7
75°	880.7	922.3	989.5	1041.9	1055.7
77.5°	734.5	765.1	824.4	883.7	888.7
80°	571.3	606.9	681.1	730.5	738.4
82.5°	434.9	477.4	543.7	588.2	590.1
85°	300.5	359.8	423.1	459.6	459.6
87.5°	207.6	269.9	326.2	350.9	353.9
90°	158.2	198.7	245.1	266.9	265.9
92.5°	137.4	156.2	185.8	203.6	200.7
95°	129.5	129.5	142.3	156.2	155.2
97.5°	125.5	117.6	112.7	121.6	120.6
100°	124.6	110.7	92.9	96.9	97.9
102.5°	121.6	104.8	81.1	80.1	81.1
105°	115.7	98.8	73.1	67.2	68.2
107.5°	107.7	90.9	67.2	59.3	60.3
110°	97.9	81.1	61.3	53.4	53.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	88.0	71.2	55.4	47.4	48.4
115°	76.1	61.3	48.4	41.5	43.5
117.5°	66.2	53.4	42.5	35.6	38.6
120°	56.3	46.5	34.6	29.7	33.6
122.5°	47.4	39.5	27.7	24.7	28.7
125°	40.5	32.6	21.7	19.8	23.7
127.5°	33.6	27.7	15.8	15.8	18.8
130°	27.7	22.7	9.9	11.9	14.8
132.5°	22.7	18.8	6.9	7.9	10.9
135°	17.8	14.8	4.9	4.9	7.9
137.5°	14.8	10.9	3.0	2.0	4.0
140°	10.9	7.9	2.0	0.0	1.0
142.5°	8.9	5.9	1.0	0.0	0.0
145°	5.9	4.0	1.0	0.0	0.0
147.5°	4.0	2.0	1.0	1.0	0.0
150°	2.0	2.0	1.0	1.0	0.0
152.5°	2.0	2.0	1.0	1.0	0.0
155°	2.0	2.0	2.0	1.0	0.0
157.5°	2.0	2.0	2.0	1.0	0.0
160°	2.0	2.0	2.0	1.0	1.0
162.5°	3.0	3.0	2.0	1.0	1.0
165°	3.0	3.0	2.0	1.0	1.0
167.5°	3.0	3.0	2.0	2.0	1.0
170°	3.0	3.0	2.0	1.0	1.0
172.5°	3.0	3.0	2.0	2.0	1.0
175°	3.0	3.0	3.0	2.0	1.0
177.5°	3.0	3.0	3.0	2.0	1.0
180°	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)