

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-LD5-18-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-LD5-18-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: 17454.1 lumens
Efficiency: N/A
Efficacy: 126.9 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

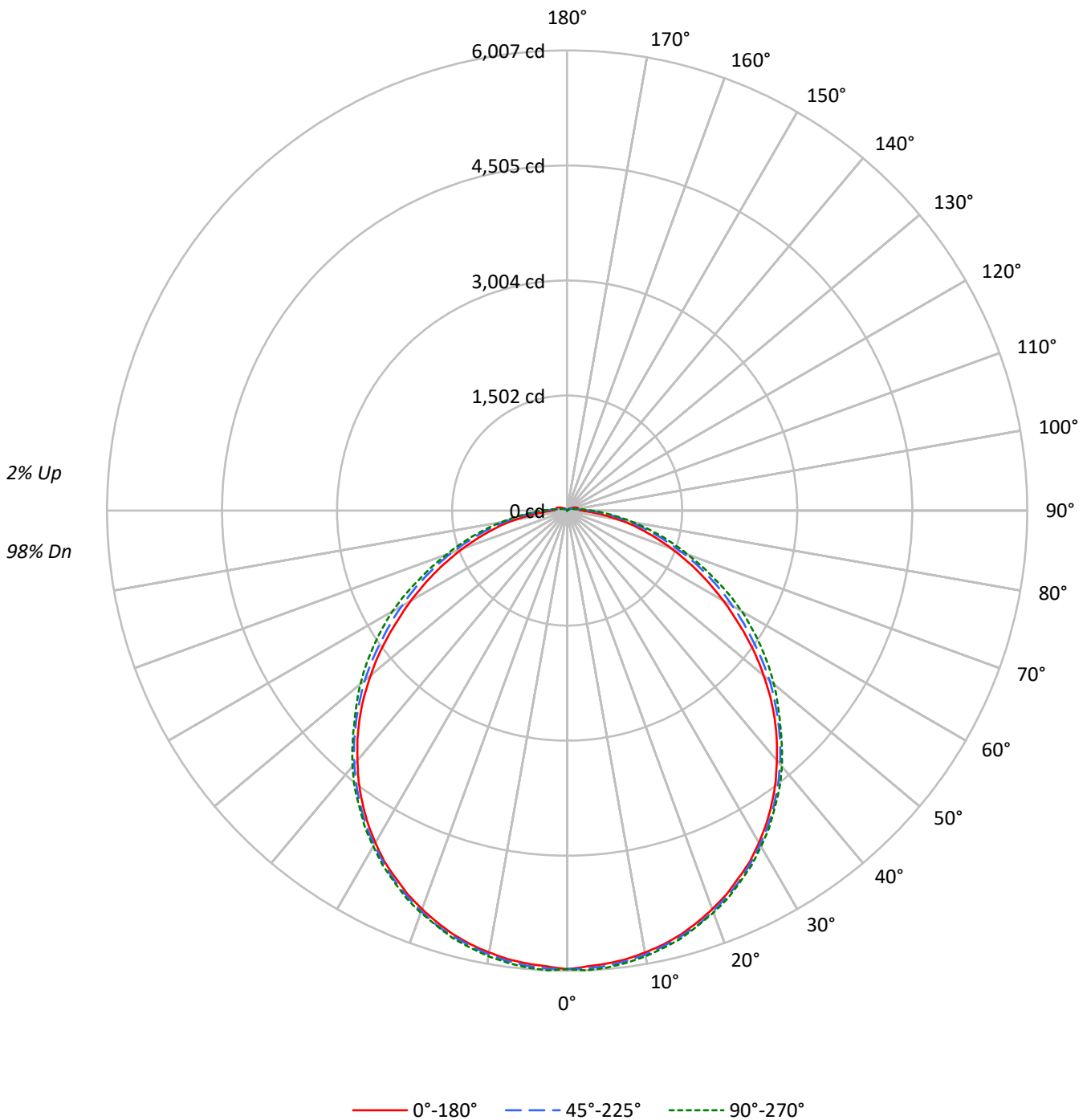
Input Watts (W): 137.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	77	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	63	59	56
4	82	69	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	36
7	64	51	42	36	62	50	41	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	29
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28561	28561	28561
5°	28138	27967	28114
10°	27791	27316	27506
15°	27419	26645	26877
20°	26939	25925	26163
25°	26391	25151	25412
30°	25806	24279	24613
35°	25039	23342	23703
40°	24096	22287	22754
45°	23086	21068	21551
50°	21742	19761	20512
55°	20222	18177	19296
60°	18617	16640	17959
65°	16972	15048	16106
70°	15221	13247	14285
75°	13360	11284	12456
80°	11129	9263	10468
85°	8263	7193	8239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.8	3.2
10°-20°	1622.5	9.3
20°-30°	2453.5	14.1
30°-40°	2938.8	16.8
40°-50°	3001.6	17.2
50°-60°	2657.5	15.2
60°-70°	2014.4	11.5
70°-80°	1241.7	7.1
80°-90°	549.3	3.1
90°-100°	197.4	1.1
100°-110°	105.8	0.6
110°-120°	63.1	0.4
120°-130°	29.1	0.2
130°-140°	9.0	0.1
140°-150°	1.7	0.0
150°-160°	0.8	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	4642.8	26.6
0°-40°	7581.6	43.4
0°-60°	13240.8	75.9
0°-90°	17046.2	97.7
90°-120°	366.3	2.1
90°-150°	406.2	2.3
90°-180°	408.0	2.3
0°-180°	17454.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5986	5986	5986	5986	5986	
5°	5936	5948	5966	5982	5988	564
15°	5729	5734	5753	5766	5777	1616
25°	5293	5309	5330	5346	5346	2441
35°	4660	4675	4703	4736	4727	2913
45°	3832	3853	3897	3942	3931	2949
55°	2848	2904	2959	3052	3084	2548
65°	1890	1940	2042	2121	2133	1873
75°	1049	1099	1179	1241	1258	1117
85°	358	429	504	548	548	365
90°	188	237	292	318	317	108
95°	154	154	170	186	185	125
105°	138	118	87	80	81	144
115°	91	73	58	50	52	91
125°	48	39	26	24	28	44
135°	21	18	6	6	9	17
145°	7	5	1	0	0	5
155°	2	2	2	1	0	1
165°	4	4	2	1	1	1
175°	4	4	4	2	1	0
180°	4	4	4	4	4	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5985.8	5985.8	5985.8	5985.8	5985.8
2.5°	5956.4	5963.4	5982.3	6001.1	6007.0
5°	5936.3	5948.1	5965.8	5982.3	5988.2
7.5°	5906.9	5916.3	5931.6	5948.1	5952.8
10°	5857.4	5868.0	5884.5	5899.8	5908.1
12.5°	5802.1	5806.8	5822.1	5839.8	5844.5
15°	5729.1	5733.8	5752.6	5765.6	5777.4
17.5°	5638.4	5643.1	5671.4	5677.3	5678.4
20°	5537.1	5544.2	5566.6	5577.2	5585.4
22.5°	5426.4	5435.9	5453.5	5466.5	5478.2
25°	5293.4	5308.7	5329.9	5346.4	5346.4
27.5°	5165.0	5167.4	5187.4	5205.0	5216.8
30°	5008.4	5010.7	5037.8	5057.8	5062.6
32.5°	4842.3	4851.8	4880.0	4901.2	4907.1
35°	4659.8	4675.1	4703.4	4736.4	4726.9
37.5°	4470.2	4478.5	4518.5	4545.6	4556.2
40°	4258.2	4281.8	4323.0	4352.5	4360.7
42.5°	4051.0	4072.2	4116.9	4145.2	4148.7
45°	3831.9	3853.1	3896.7	3941.5	3930.9
47.5°	3595.2	3628.2	3671.8	3718.9	3727.1
50°	3347.9	3396.2	3449.2	3488.1	3523.4
52.5°	3105.4	3144.2	3205.5	3274.9	3307.9
55°	2847.5	2904.0	2959.3	3052.4	3084.2
57.5°	2591.9	2660.2	2728.5	2831.0	2859.2
60°	2356.4	2410.6	2493.0	2593.1	2634.3
62.5°	2116.2	2178.6	2270.4	2362.3	2390.6
65°	1890.1	1939.5	2042.0	2120.9	2132.7
67.5°	1662.8	1721.7	1818.2	1900.7	1905.4
70°	1450.8	1503.8	1596.8	1666.3	1673.4
72.5°	1245.9	1300.1	1379.0	1449.6	1463.8
75°	1049.3	1098.7	1178.8	1241.2	1257.7
77.5°	875.0	911.5	982.1	1052.8	1058.7
80°	680.7	723.1	811.4	870.3	879.7
82.5°	518.1	568.8	647.7	700.7	703.0
85°	358.0	428.7	504.0	547.6	547.6
87.5°	247.3	321.5	388.6	418.1	421.6
90°	188.4	236.7	292.0	318.0	316.8
92.5°	163.7	186.1	221.4	242.6	239.1
95°	154.3	154.3	169.6	186.1	184.9
97.5°	149.6	140.1	134.2	144.8	143.7
100°	148.4	131.9	110.7	115.4	116.6
102.5°	144.8	124.8	96.6	95.4	96.6
105°	137.8	117.8	87.1	80.1	81.3
107.5°	128.4	108.3	80.1	70.7	71.8
110°	116.6	96.6	73.0	63.6	63.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.8	84.8	65.9	56.5	57.7
115°	90.7	73.0	57.7	49.5	51.8
117.5°	78.9	63.6	50.6	42.4	45.9
120°	67.1	55.3	41.2	35.3	40.0
122.5°	56.5	47.1	33.0	29.4	34.2
125°	48.3	38.9	25.9	23.6	28.3
127.5°	40.0	33.0	18.8	18.8	22.4
130°	33.0	27.1	11.8	14.1	17.7
132.5°	27.1	22.4	8.2	9.4	13.0
135°	21.2	17.7	5.9	5.9	9.4
137.5°	17.7	13.0	3.5	2.4	4.7
140°	13.0	9.4	2.4	0.0	1.2
142.5°	10.6	7.1	1.2	0.0	0.0
145°	7.1	4.7	1.2	0.0	0.0
147.5°	4.7	2.4	1.2	1.2	0.0
150°	2.4	2.4	1.2	1.2	0.0
152.5°	2.4	2.4	1.2	1.2	0.0
155°	2.4	2.4	2.4	1.2	0.0
157.5°	2.4	2.4	2.4	1.2	0.0
160°	2.4	2.4	2.4	1.2	1.2
162.5°	3.5	3.5	2.4	1.2	1.2
165°	3.5	3.5	2.4	1.2	1.2
167.5°	3.5	3.5	2.4	2.4	1.2
170°	3.5	3.5	2.4	1.2	1.2
172.5°	3.5	3.5	2.4	2.4	1.2
175°	3.5	3.5	3.5	2.4	1.2
177.5°	3.5	3.5	3.5	2.4	1.2
180°	3.5	3.5	3.5	3.5	3.5

(END OF REPORT)