

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-LD5-9-DR-L850-CD1-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-LD5-9-DR-L850-CD1-U
Description: VT4S VAPORTIGHT FIXTURE WITH 5000K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

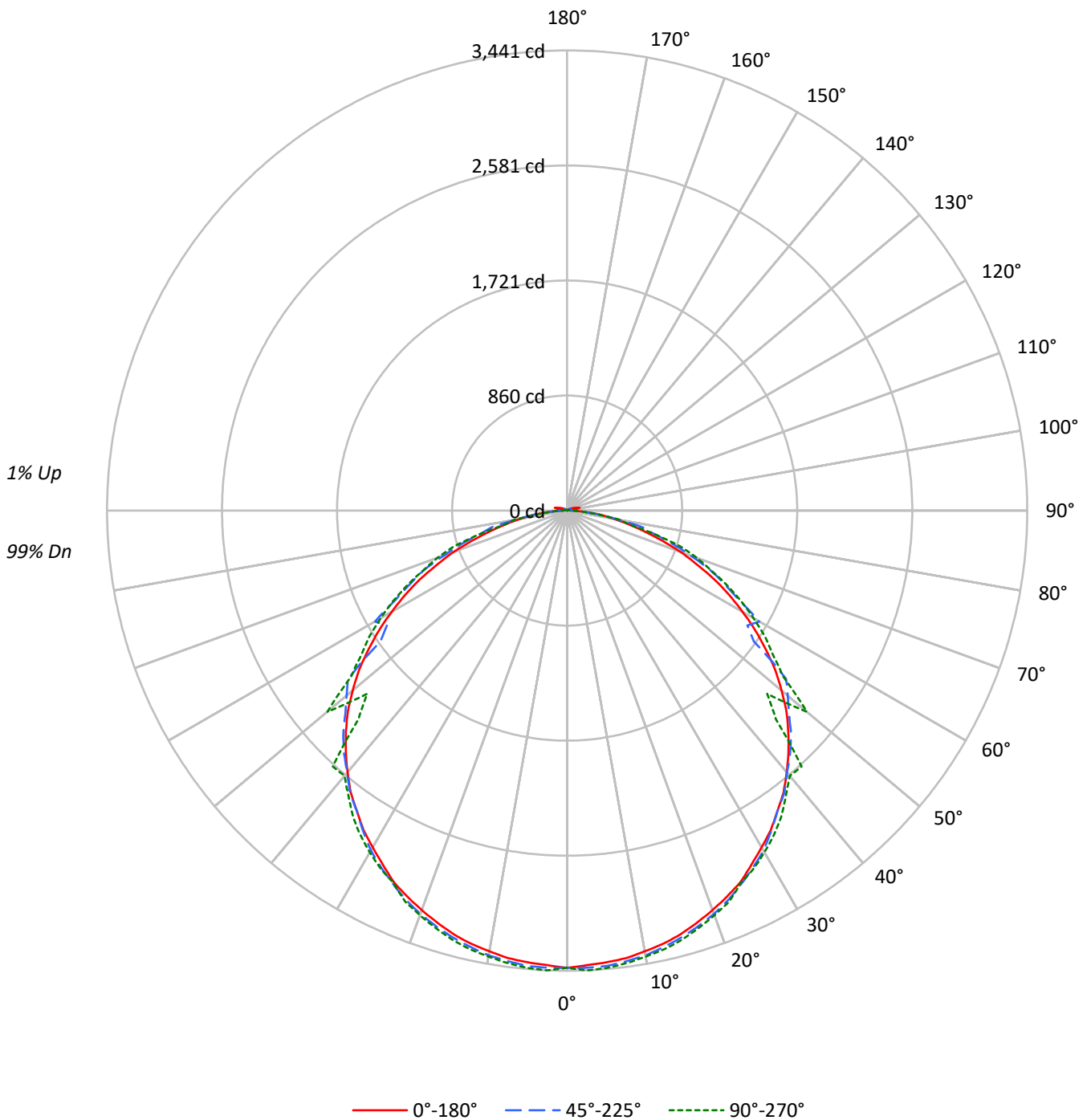
Lumens per Lamp: N/A
Luminaire Lumens: 10099.1 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 61.5
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	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°	16312	16312	16312
5°	16072	16022	16116
10°	15879	15675	15766
15°	15698	15307	15454
20°	15466	14945	15082
25°	15287	14539	14604
30°	14984	14144	14347
35°	14736	13610	14005
40°	14454	13191	13514
45°	14094	12799	12100
50°	13593	12337	13618
55°	12879	10467	11744
60°	11959	11072	10972
65°	10869	9539	9929
70°	9452	8099	8792
75°	7515	6401	6569
80°	5783	4381	4772
85°	3647	2087	2119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.7	3.2
10°-20°	932.5	9.2
20°-30°	1419.4	14.1
30°-40°	1729.2	17.1
40°-50°	1806.0	17.9
50°-60°	1652.2	16.4
60°-70°	1261.8	12.5
70°-80°	688.0	6.8
80°-90°	185.9	1.8
90°-100°	28.5	0.3
100°-110°	34.6	0.3
110°-120°	20.8	0.2
120°-130°	9.9	0.1
130°-140°	3.4	0.0
140°-150°	1.0	0.0
150°-160°	0.5	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	2676.7	26.5
0°-40°	4405.8	43.6
0°-60°	7864.0	77.9
0°-90°	9999.6	99.0
90°-120°	83.9	0.8
90°-150°	98.2	1.0
90°-180°	99.0	1.0
0°-180°	10099.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3419	3419	3419	3419	3419	
5°	3391	3405	3418	3429	3433	322
15°	3280	3293	3305	3317	3322	925
25°	3066	3076	3081	3090	3072	1410
35°	2742	2758	2742	2778	2793	1718
45°	2339	2350	2367	2489	2207	1803
55°	1814	1824	1704	1890	1877	1621
65°	1210	1247	1294	1299	1315	1194
75°	590	635	669	668	663	639
85°	158	159	146	142	141	172
90°	27	45	43	42	41	20
95°	26	24	25	20	20	30
105°	83	110	14	15	15	83
115°	41	20	27	10	11	42
125°	18	15	8	4	5	17
135°	9	6	3	2	2	7
145°	3	2	1	1	1	2
155°	1	1	1	1	1	1
165°	2	2	2	2	1	1
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



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CATALOG NUMBER: VT4S-LD5-9-DR-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3418.7	3418.7	3418.7	3418.7	3418.7
2.5°	3402.6	3411.2	3421.9	3437.0	3441.3
5°	3390.7	3404.7	3417.6	3429.4	3432.7
7.5°	3375.7	3392.9	3398.3	3413.3	3413.3
10°	3346.7	3366.0	3376.8	3386.4	3386.4
12.5°	3318.7	3332.7	3342.4	3354.2	3359.6
15°	3280.0	3292.9	3304.7	3316.6	3321.9
17.5°	3230.6	3251.0	3258.5	3268.2	3272.5
20°	3179.0	3198.3	3209.1	3217.7	3219.8
22.5°	3124.1	3139.2	3149.9	3153.2	3165.0
25°	3066.1	3075.7	3081.1	3089.7	3072.5
27.5°	2984.4	3002.6	3010.2	3002.6	3019.8
30°	2908.0	2926.3	2934.9	2937.1	2951.0
32.5°	2832.8	2845.7	2841.4	2857.5	2877.9
35°	2742.5	2757.5	2742.5	2778.0	2793.0
37.5°	2657.5	2665.1	2666.1	2701.6	2686.6
40°	2554.3	2564.0	2558.6	2581.2	2589.8
42.5°	2450.1	2458.7	2468.3	2485.5	2595.2
45°	2339.3	2350.1	2367.3	2488.8	2207.1
47.5°	2224.3	2226.4	2249.0	2063.0	2027.6
50°	2093.1	2092.1	2153.3	1958.8	2339.3
52.5°	1962.0	1960.9	2063.0	2155.5	2035.1
55°	1813.6	1824.4	1704.0	1890.0	1877.1
57.5°	1669.6	1679.2	1597.5	1726.5	1754.5
60°	1513.7	1551.3	1658.8	1608.3	1609.4
62.5°	1365.3	1398.7	1446.0	1462.1	1468.5
65°	1210.5	1247.1	1294.4	1298.7	1314.8
67.5°	1046.0	1098.7	1155.7	1148.2	1163.2
70°	900.9	836.4	976.2	982.6	1029.9
72.5°	737.5	814.9	825.6	688.0	885.8
75°	590.2	635.4	668.7	667.6	663.3
77.5°	467.7	497.8	578.4	520.3	470.9
80°	353.7	362.3	383.8	381.6	401.0
82.5°	266.6	253.7	261.2	258.0	227.9
85°	158.0	159.1	146.2	141.9	140.8
87.5°	65.6	73.1	71.0	67.7	73.1
90°	26.9	45.2	43.0	41.9	40.9
92.5°	30.1	32.3	30.1	25.8	22.6
95°	25.8	23.7	24.7	20.4	20.4
97.5°	35.5	19.4	19.4	17.2	16.1
100°	71.0	17.2	18.3	15.1	15.1
102.5°	94.6	18.3	16.1	15.1	16.1
105°	82.8	109.7	14.0	15.1	15.1
107.5°	69.9	64.5	12.9	14.0	15.1
110°	59.1	39.8	10.8	12.9	14.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.4	28.0	9.7	10.8	12.9
115°	40.9	20.4	26.9	9.7	10.8
117.5°	34.4	21.5	29.0	8.6	9.7
120°	28.0	44.1	15.1	7.5	7.5
122.5°	22.6	20.4	10.8	5.4	6.5
125°	18.3	15.1	7.5	4.3	5.4
127.5°	15.1	11.8	5.4	3.2	4.3
130°	12.9	10.8	3.2	3.2	3.2
132.5°	10.8	8.6	3.2	2.2	3.2
135°	8.6	6.5	3.2	2.2	2.2
137.5°	6.5	5.4	2.2	2.2	2.2
140°	5.4	3.2	1.1	1.1	1.1
142.5°	4.3	3.2	1.1	1.1	1.1
145°	3.2	2.2	1.1	1.1	1.1
147.5°	2.2	1.1	1.1	1.1	1.1
150°	1.1	1.1	1.1	1.1	1.1
152.5°	1.1	1.1	1.1	1.1	1.1
155°	1.1	1.1	1.1	1.1	1.1
157.5°	1.1	1.1	1.1	1.1	1.1
160°	1.1	1.1	1.1	1.1	1.1
162.5°	2.2	2.2	2.2	2.2	1.1
165°	2.2	2.2	2.2	2.2	1.1
167.5°	2.2	2.2	2.2	2.2	1.1
170°	2.2	2.2	2.2	2.2	1.1
172.5°	2.2	2.2	2.2	2.2	2.2
175°	2.2	2.2	2.2	2.2	2.2
177.5°	2.2	2.2	2.2	2.2	2.2
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)