

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-PC-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 (G3-1801-511-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT4S-LD5-9-PC-L850-CD1-U
Description: VT4S VAPORTIGHT FIXTURE WITH 5000K LED AND CLEAR POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

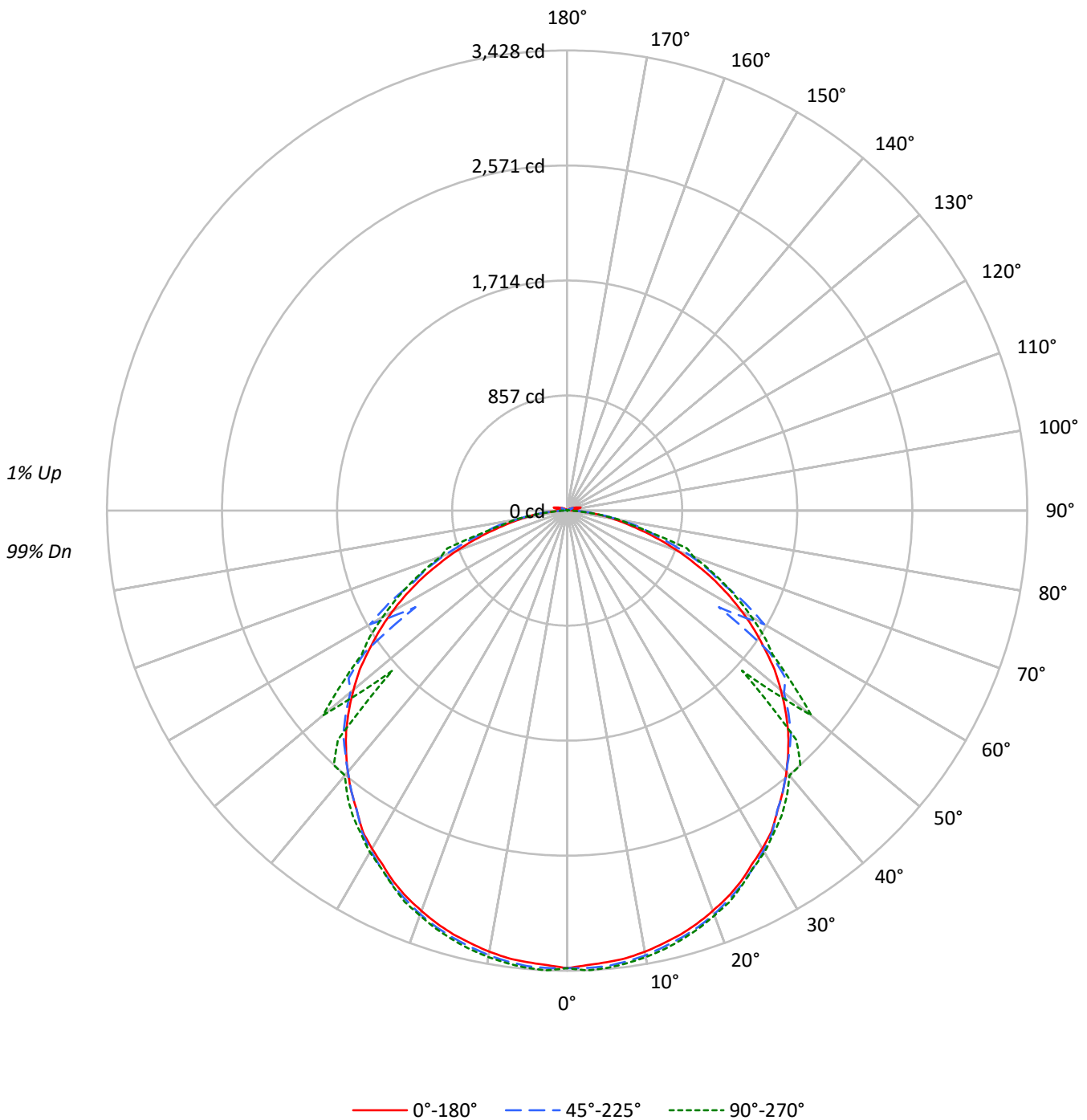
Lumens per Lamp: N/A
Luminaire Lumens: 10029.9 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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	85	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	52	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	40	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	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16263	16263	16263
5°	16010	15969	16059
10°	15832	15614	15722
15°	15643	15255	15389
20°	15437	14899	15032
25°	15229	14512	14643
30°	14981	14099	14291
35°	14670	13546	13952
40°	14382	13096	13444
45°	14031	12747	13237
50°	13491	12078	13823
55°	12768	11306	11691
60°	11884	11304	10820
65°	10720	9311	9749
70°	9206	8045	8525
75°	7324	6191	6537
80°	5598	4405	4656
85°	3566	2252	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.5	3.2
10°-20°	929.5	9.3
20°-30°	1415.6	14.1
30°-40°	1722.4	17.2
40°-50°	1794.0	17.9
50°-60°	1639.7	16.3
60°-70°	1248.6	12.4
70°-80°	677.7	6.8
80°-90°	186.6	1.9
90°-100°	23.9	0.2
100°-110°	32.5	0.3
110°-120°	21.7	0.2
120°-130°	8.3	0.1
130°-140°	3.4	0.0
140°-150°	1.0	0.0
150°-160°	0.6	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	2668.7	26.6
0°-40°	4391.1	43.8
0°-60°	7824.8	78.0
0°-90°	9937.8	99.1
90°-120°	78.1	0.8
90°-150°	90.9	0.9
90°-180°	92.0	0.9
0°-180°	10029.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3408	3408	3408	3408	3408	
5°	3378	3392	3406	3419	3420	321
15°	3269	3284	3293	3306	3308	923
25°	3055	3070	3075	3081	3081	1407
35°	2730	2750	2730	2763	2782	1712
45°	2329	2334	2358	2469	2414	1792
55°	1798	1803	1841	1965	1869	1608
65°	1194	1230	1263	1290	1291	1178
75°	575	639	647	660	660	620
85°	154	168	158	131	131	166
90°	31	44	42	38	37	22
95°	25	20	21	12	11	36
105°	89	115	11	12	11	91
115°	46	29	46	6	6	46
125°	21	15	6	1	2	19
135°	9	7	3	1	1	7
145°	3	1	1	1	1	2
155°	1	1	1	1	1	1
165°	2	2	2	2	2	1
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3408.4	3408.4	3408.4	3408.4	3408.4
2.5°	3389.0	3399.7	3411.1	3423.1	3427.8
5°	3377.7	3391.7	3406.4	3419.1	3420.5
7.5°	3363.6	3377.7	3387.7	3398.4	3401.7
10°	3336.9	3356.9	3363.6	3371.0	3377.0
12.5°	3304.1	3322.8	3328.8	3343.5	3346.9
15°	3268.6	3284.0	3293.4	3306.1	3308.1
17.5°	3225.2	3240.5	3251.2	3258.6	3263.3
20°	3173.0	3185.7	3199.1	3204.4	3209.1
22.5°	3118.8	3126.8	3139.6	3148.2	3156.3
25°	3054.6	3070.0	3075.3	3080.7	3080.7
27.5°	2975.7	2998.4	3002.4	2994.4	3001.1
30°	2907.5	2922.8	2925.5	2916.2	2939.6
32.5°	2835.2	2835.9	2843.9	2841.9	2857.3
35°	2730.2	2749.6	2729.5	2763.0	2782.4
37.5°	2640.6	2656.6	2639.9	2690.8	2687.4
40°	2541.6	2557.0	2540.3	2583.7	2576.4
42.5°	2437.9	2451.3	2447.3	2467.4	2572.4
45°	2328.9	2334.3	2357.7	2469.4	2414.5
47.5°	2205.8	2210.5	2235.3	2195.1	1765.7
50°	2077.4	2082.1	2108.2	1658.7	2374.4
52.5°	1947.7	1941.0	2050.7	2230.6	2111.5
55°	1797.9	1803.2	1840.7	1965.1	1868.7
57.5°	1654.0	1666.1	1340.4	1729.0	1738.3
60°	1504.2	1526.3	1693.5	1582.5	1587.2
62.5°	1349.1	1386.5	1497.5	1436.7	1441.4
65°	1193.9	1230.0	1263.4	1289.5	1290.9
67.5°	1028.7	1084.2	1127.0	1117.0	1144.4
70°	877.5	852.1	969.8	966.5	998.6
72.5°	721.0	783.2	796.6	691.6	937.0
75°	575.2	639.4	646.8	660.1	660.1
77.5°	445.4	482.9	538.4	512.3	493.6
80°	342.4	353.1	385.9	398.0	391.3
82.5°	254.8	240.1	266.2	277.6	251.5
85°	154.5	167.9	157.8	131.1	131.1
87.5°	63.5	80.3	70.9	64.9	57.5
90°	30.8	44.1	41.5	38.1	36.8
92.5°	32.1	30.8	22.1	15.4	12.0
95°	24.7	20.1	21.4	12.0	11.4
97.5°	46.8	14.7	14.7	10.7	8.7
100°	86.9	12.7	13.4	10.7	7.4
102.5°	103.7	18.7	13.4	10.7	10.7
105°	89.0	115.0	11.4	12.0	10.7
107.5°	75.6	52.2	8.7	10.7	12.0
110°	63.5	36.8	7.4	10.0	11.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.5	27.4	7.4	7.4	10.0
115°	46.2	28.8	45.5	6.0	6.0
117.5°	38.8	45.5	20.1	4.7	6.0
120°	31.4	26.1	12.0	6.0	4.0
122.5°	24.7	19.4	8.0	2.0	4.0
125°	20.7	15.4	6.0	1.3	2.0
127.5°	16.7	12.7	4.0	1.3	1.3
130°	13.4	12.0	2.7	1.3	1.3
132.5°	11.4	8.7	7.4	1.3	1.3
135°	8.7	6.7	2.7	1.3	1.3
137.5°	6.7	5.4	2.0	1.3	1.3
140°	5.4	4.0	1.3	1.3	0.7
142.5°	4.0	2.7	1.3	1.3	0.7
145°	2.7	1.3	1.3	1.3	0.7
147.5°	2.0	1.3	1.3	1.3	1.3
150°	1.3	1.3	1.3	1.3	1.3
152.5°	1.3	1.3	1.3	1.3	1.3
155°	1.3	1.3	1.3	1.3	1.3
157.5°	1.3	1.3	1.3	1.3	1.3
160°	1.3	1.3	1.3	1.3	1.3
162.5°	2.0	2.0	2.0	2.0	1.3
165°	2.0	2.0	2.0	2.0	2.0
167.5°	2.0	2.0	2.0	2.0	2.0
170°	2.0	2.0	2.0	2.0	2.0
172.5°	2.0	2.0	2.0	2.0	2.0
175°	2.0	2.0	2.0	2.0	2.0
177.5°	2.0	2.0	2.0	2.0	2.0
180°	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)