

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-PCF-L835-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 (G3-1801-511-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT4S-LD5-9-PCF-L835-CD1-U
Description: VT4S VAPORTIGHT FIXTURE WITH 3500K LED AND FROSTED POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

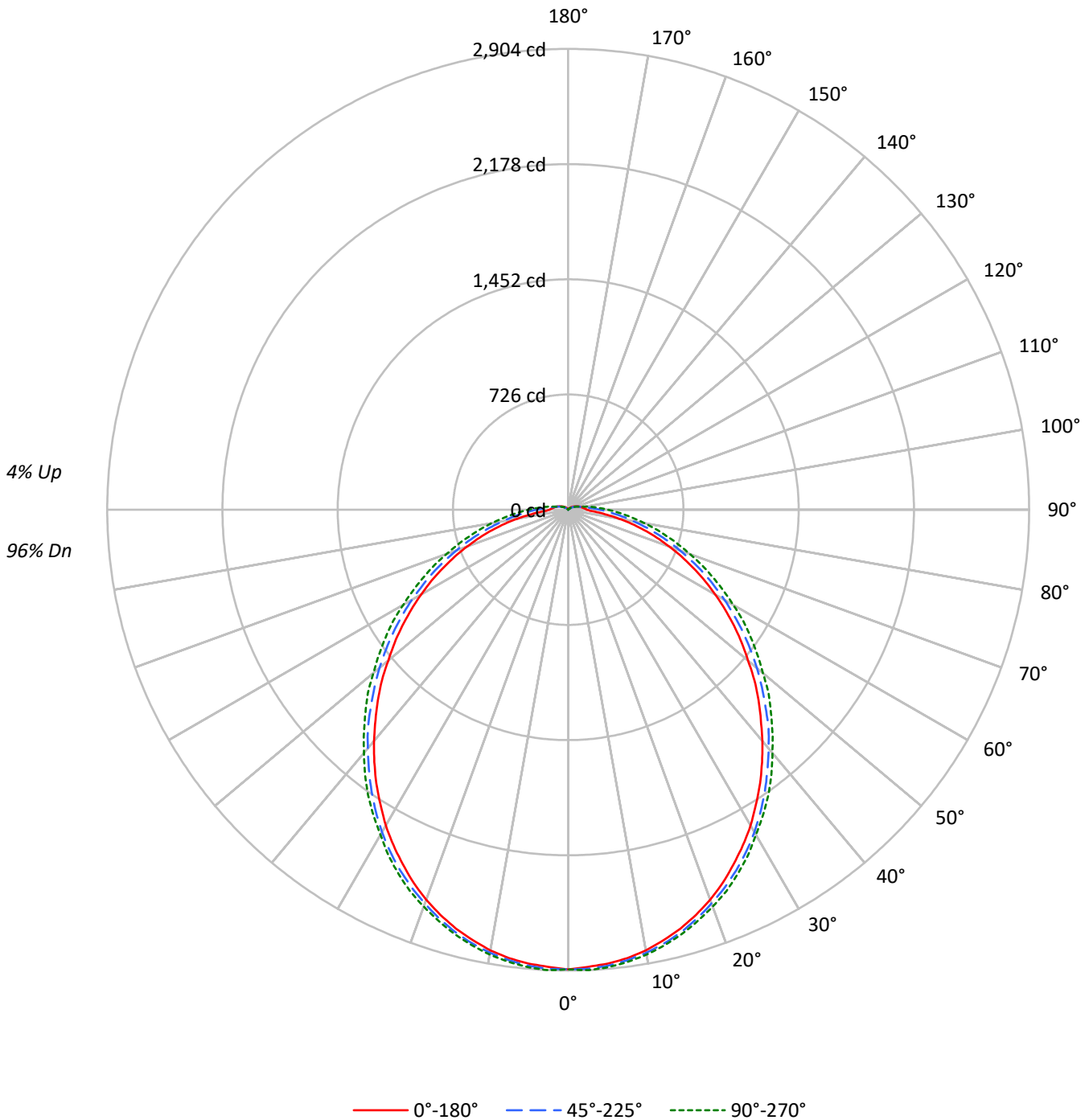
Lumens per Lamp: N/A
Luminaire Lumens: 8266.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	102	97	93	104	99	95	91	94	91	88	90	87	85	86	83	81	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	41
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13822	13822	13822
5°	13609	13523	13589
10°	13380	13159	13255
15°	13078	12757	12876
20°	12723	12297	12466
25°	12291	11824	12030
30°	11840	11308	11500
35°	11319	10726	11017
40°	10769	10125	10443
45°	10220	9504	9903
50°	9602	8897	9320
55°	9054	8251	8789
60°	8450	7595	8181
65°	7815	6921	7571
70°	7098	6210	6941
75°	6296	5475	6365
80°	5299	4782	5796
85°	4173	4170	5349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	3.3
10°-20°	775.7	9.4
20°-30°	1152.2	13.9
30°-40°	1348.5	16.3
40°-50°	1355.1	16.4
50°-60°	1201.4	14.5
60°-70°	932.1	11.3
70°-80°	608.0	7.4
80°-90°	317.6	3.8
90°-100°	151.9	1.8
100°-110°	79.1	1.0
110°-120°	43.0	0.5
120°-130°	20.3	0.2
130°-140°	6.2	0.1
140°-150°	0.9	0.0
150°-160°	0.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	2201.5	26.6
0°-40°	3550.0	42.9
0°-60°	6106.5	73.9
0°-90°	7964.2	96.3
90°-120°	274.0	3.3
90°-150°	301.4	3.6
90°-180°	302.0	3.7
0°-180°	8266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2897	2897	2897	2897	2897	
5°	2871	2875	2885	2891	2894	272
15°	2733	2740	2754	2764	2768	770
25°	2465	2480	2506	2525	2531	1136
35°	2107	2128	2161	2188	2197	1317
45°	1696	1719	1758	1792	1806	1307
55°	1275	1298	1343	1389	1405	1140
65°	870	894	939	990	1002	863
75°	494	518	572	625	643	525
85°	181	231	292	343	356	179
90°	117	151	200	238	247	66
95°	102	108	135	162	169	80
105°	74	71	73	74	78	79
115°	50	42	42	40	43	50
125°	31	25	18	18	23	28
135°	16	12	3	4	7	13
145°	4	2	0	0	0	3
155°	1	1	0	0	0	1
165°	1	1	1	0	0	0
175°	2	1	1	0	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2896.9	2896.9	2896.9	2896.9	2896.9
2.5°	2883.4	2887.1	2895.1	2903.1	2904.3
5°	2871.1	2874.8	2884.6	2891.4	2894.5
7.5°	2850.2	2853.9	2863.1	2872.3	2873.5
10°	2820.0	2825.0	2834.8	2845.3	2847.1
12.5°	2778.8	2786.8	2799.1	2808.4	2810.8
15°	2732.7	2739.5	2754.2	2763.5	2767.8
17.5°	2677.3	2686.0	2701.3	2712.4	2717.3
20°	2615.2	2623.8	2640.4	2659.5	2661.4
22.5°	2545.1	2558.6	2576.5	2594.9	2602.3
25°	2465.2	2480.5	2505.7	2525.4	2531.0
27.5°	2384.0	2398.7	2429.5	2449.8	2454.1
30°	2297.9	2313.8	2346.4	2362.4	2365.5
32.5°	2201.9	2220.4	2255.4	2277.6	2283.1
35°	2106.6	2128.1	2161.3	2187.8	2197.0
37.5°	2005.7	2029.7	2061.7	2095.5	2102.9
40°	1903.0	1928.2	1963.9	1995.2	2001.4
42.5°	1796.0	1823.6	1867.9	1893.1	1904.8
45°	1696.3	1719.1	1757.8	1791.7	1806.4
47.5°	1591.2	1613.9	1654.5	1694.5	1711.1
50°	1478.6	1509.4	1553.0	1591.8	1601.0
52.5°	1379.0	1408.5	1446.6	1489.7	1503.8
55°	1275.0	1298.4	1343.3	1388.8	1404.8
57.5°	1171.7	1196.9	1238.1	1284.2	1308.2
60°	1069.6	1093.6	1137.9	1185.8	1200.0
62.5°	970.6	995.2	1035.1	1087.4	1101.6
65°	870.3	894.3	939.2	989.6	1002.5
67.5°	773.1	795.9	842.0	895.5	911.5
70°	676.6	706.1	748.5	798.3	813.1
72.5°	585.5	611.4	660.0	710.4	727.6
75°	494.5	517.9	572.0	624.9	642.7
77.5°	409.0	439.2	492.0	549.9	564.0
80°	324.1	356.1	418.9	474.2	487.1
82.5°	247.3	288.5	352.4	407.2	415.2
85°	180.8	231.3	292.2	343.2	355.5
87.5°	135.9	185.1	244.8	287.2	298.3
90°	116.9	150.7	199.9	238.0	247.3
92.5°	108.9	125.5	164.2	198.0	204.2
95°	101.5	108.3	134.7	162.4	169.1
97.5°	94.1	96.6	113.2	132.9	138.4
100°	87.3	88.0	95.3	109.5	113.2
102.5°	80.6	78.7	81.8	89.2	92.3
105°	74.4	70.7	72.6	73.8	77.5
107.5°	68.3	62.7	64.0	62.7	64.6
110°	62.1	54.7	56.0	54.1	56.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	56.0	48.0	49.2	46.7	49.2
115°	50.4	41.8	42.4	40.0	43.1
117.5°	45.5	37.5	35.7	33.8	37.5
120°	40.0	32.6	29.5	28.3	32.6
122.5°	35.7	28.9	23.4	23.4	27.7
125°	30.8	25.2	17.8	18.5	22.8
127.5°	27.1	21.5	12.9	14.8	18.5
130°	23.4	18.5	8.0	11.1	14.8
132.5°	19.1	14.8	4.9	7.4	10.5
135°	16.0	12.3	3.1	3.7	6.8
137.5°	12.9	9.2	1.2	0.6	3.1
140°	9.8	6.8	0.6	0.0	0.0
142.5°	6.8	4.3	0.0	0.0	0.0
145°	4.3	2.5	0.0	0.0	0.0
147.5°	2.5	1.2	0.0	0.0	0.0
150°	1.2	0.6	0.0	0.0	0.0
152.5°	1.2	0.6	0.0	0.0	0.0
155°	1.2	1.2	0.0	0.0	0.0
157.5°	1.2	1.2	0.6	0.0	0.0
160°	1.2	1.2	0.6	0.0	0.0
162.5°	1.2	1.2	0.6	0.0	0.0
165°	1.2	1.2	0.6	0.0	0.0
167.5°	1.2	1.2	0.6	0.0	0.0
170°	1.2	1.2	0.6	0.0	0.0
172.5°	1.2	1.2	0.6	0.0	0.0
175°	1.8	1.2	0.6	0.0	0.0
177.5°	1.8	1.2	0.6	0.0	0.0
180°	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)