

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-L840-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-L840-CD1-U
Description: VT4S VAPORTIGHT FIXTURE WITH 4000K LED AND FROSTED POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

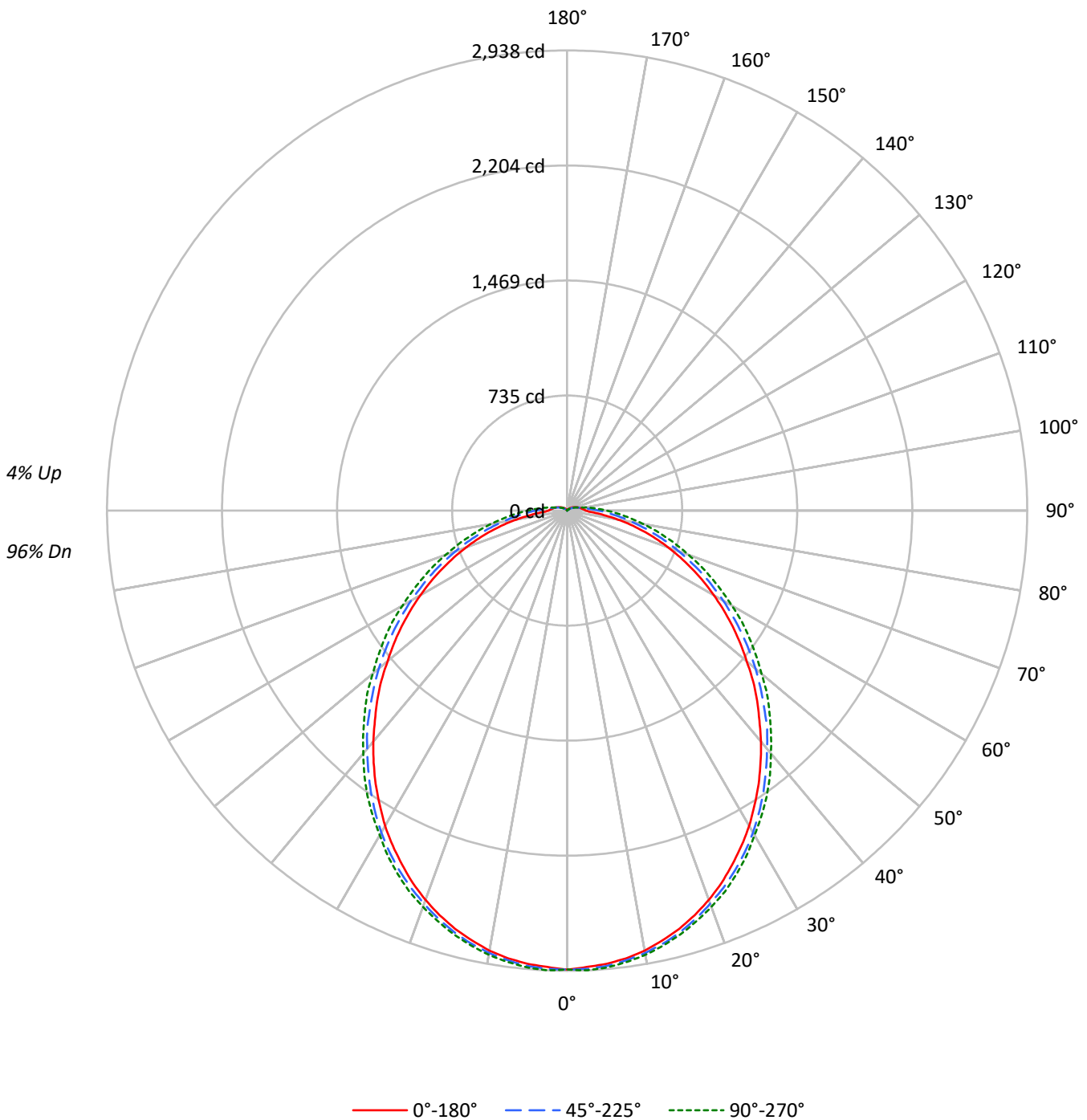
Lumens per Lamp: N/A
Luminaire Lumens: 8362.0 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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°	13983	13983	13983
5°	13767	13680	13747
10°	13536	13312	13409
15°	13230	12905	13025
20°	12871	12440	12611
25°	12433	11961	12170
30°	11977	11440	11634
35°	11451	10851	11144
40°	10894	10242	10564
45°	10339	9614	10018
50°	9714	9001	9429
55°	9160	8347	8891
60°	8548	7683	8275
65°	7905	7002	7659
70°	7180	6282	7021
75°	6369	5539	6439
80°	5361	4837	5864
85°	4222	4218	5411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	3.3
10°-20°	784.7	9.4
20°-30°	1165.5	13.9
30°-40°	1364.1	16.3
40°-50°	1370.8	16.4
50°-60°	1215.4	14.5
60°-70°	942.9	11.3
70°-80°	615.1	7.4
80°-90°	321.2	3.8
90°-100°	153.7	1.8
100°-110°	80.0	1.0
110°-120°	43.5	0.5
120°-130°	20.5	0.2
130°-140°	6.3	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°	2227.1	26.6
0°-40°	3591.2	42.9
0°-60°	6177.4	73.9
0°-90°	8056.7	96.3
90°-120°	277.2	3.3
90°-150°	304.9	3.6
90°-180°	305.0	3.6
0°-180°	8362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2931	2931	2931	2931	2931	
5°	2904	2908	2918	2925	2928	276
15°	2764	2771	2786	2796	2800	779
25°	2494	2509	2535	2555	2560	1149
35°	2131	2153	2186	2213	2222	1332
45°	1716	1739	1778	1812	1827	1322
55°	1290	1314	1359	1405	1421	1154
65°	880	905	950	1001	1014	873
75°	500	524	579	632	650	531
85°	183	234	296	347	360	181
90°	118	152	202	241	250	66
95°	103	110	136	164	171	81
105°	75	72	73	75	78	80
115°	51	42	43	40	44	51
125°	31	26	18	19	23	29
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°	2930.6	2930.6	2930.6	2930.6	2930.6
2.5°	2916.9	2920.6	2928.7	2936.8	2938.0
5°	2904.4	2908.2	2918.1	2925.0	2928.1
7.5°	2883.3	2887.0	2896.3	2905.7	2906.9
10°	2852.8	2857.8	2867.7	2878.3	2880.2
12.5°	2811.1	2819.2	2831.6	2841.0	2843.5
15°	2764.4	2771.3	2786.2	2795.5	2799.9
17.5°	2708.4	2717.2	2732.7	2743.9	2748.9
20°	2645.6	2654.3	2671.1	2690.4	2692.3
22.5°	2574.7	2588.4	2606.4	2625.1	2632.5
25°	2493.8	2509.3	2534.8	2554.8	2560.4
27.5°	2411.6	2426.6	2457.7	2478.2	2482.6
30°	2324.5	2340.7	2373.7	2389.9	2393.0
32.5°	2227.5	2246.1	2281.6	2304.0	2309.6
35°	2131.0	2152.8	2186.4	2213.2	2222.5
37.5°	2029.0	2053.3	2085.6	2119.8	2127.3
40°	1925.1	1950.6	1986.7	2018.4	2024.6
42.5°	1816.8	1844.8	1889.6	1915.1	1927.0
45°	1716.0	1739.1	1778.2	1812.5	1827.4
47.5°	1609.6	1632.7	1673.7	1714.2	1731.0
50°	1495.8	1526.9	1571.1	1610.3	1619.6
52.5°	1395.0	1424.8	1463.4	1507.0	1521.3
55°	1289.8	1313.5	1358.9	1404.9	1421.1
57.5°	1185.3	1210.8	1252.5	1299.2	1323.4
60°	1082.0	1106.3	1151.1	1199.6	1213.9
62.5°	981.8	1006.7	1047.2	1100.1	1114.4
65°	880.4	904.7	950.1	1001.1	1014.2
67.5°	782.1	805.1	851.8	905.9	922.1
70°	684.4	714.3	757.2	807.6	822.5
72.5°	592.3	618.5	667.6	718.6	736.1
75°	500.2	523.9	578.6	632.2	650.2
77.5°	413.8	444.3	497.8	556.2	570.6
80°	327.9	360.3	423.7	479.7	492.8
82.5°	250.1	291.8	356.5	411.9	420.0
85°	182.9	233.9	295.5	347.2	359.6
87.5°	137.5	187.3	247.6	290.6	301.8
90°	118.2	152.4	202.2	240.8	250.1
92.5°	110.1	126.9	166.1	200.3	206.6
95°	102.7	109.5	136.3	164.3	171.1
97.5°	95.2	97.7	114.5	134.4	140.0
100°	88.4	89.0	96.4	110.8	114.5
102.5°	81.5	79.6	82.8	90.2	93.3
105°	75.3	71.6	73.4	74.7	78.4
107.5°	69.1	63.5	64.7	63.5	65.3
110°	62.8	55.4	56.6	54.8	56.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	56.6	48.5	49.8	47.3	49.8
115°	51.0	42.3	42.9	40.4	43.6
117.5°	46.0	38.0	36.1	34.2	38.0
120°	40.4	33.0	29.9	28.6	33.0
122.5°	36.1	29.2	23.6	23.6	28.0
125°	31.1	25.5	18.0	18.7	23.0
127.5°	27.4	21.8	13.1	14.9	18.7
130°	23.6	18.7	8.1	11.2	14.9
132.5°	19.3	14.9	5.0	7.5	10.6
135°	16.2	12.4	3.1	3.7	6.8
137.5°	13.1	9.3	1.2	0.6	3.1
140°	10.0	6.8	0.6	0.0	0.0
142.5°	6.8	4.4	0.0	0.0	0.0
145°	4.4	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°	1.9	1.2	0.6	0.0	0.0
177.5°	1.9	1.2	0.6	0.0	0.0
180°	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)