

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-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 (G3-1801-511-6)
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-L835-CD1-U
Description: VT4S VAPORTIGHT FIXTURE WITH 3500K LED AND CLEAR POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

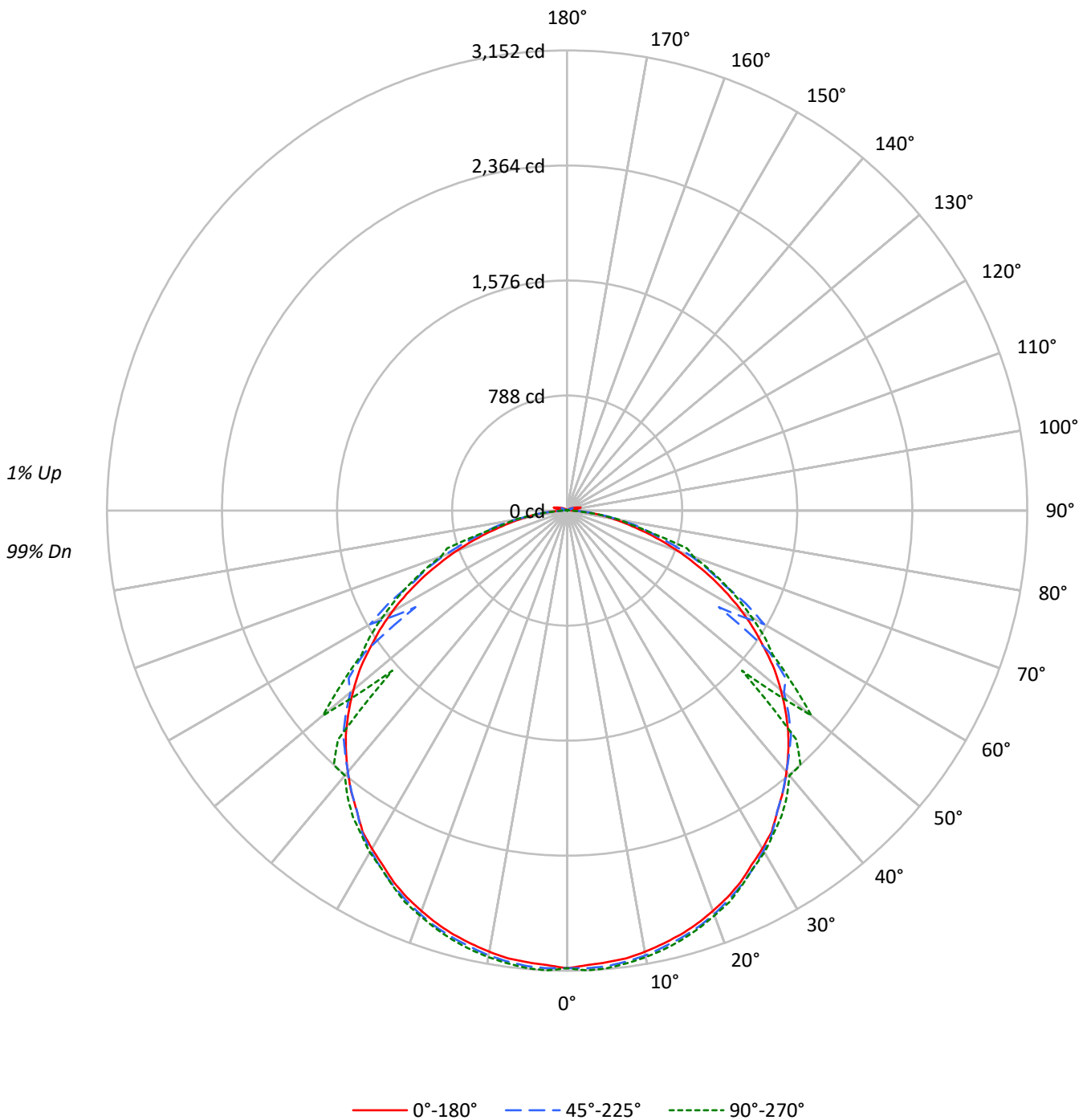
Lumens per Lamp: N/A
Luminaire Lumens: 9223.9 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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°	14956	14956	14956
5°	14723	14686	14768
10°	14560	14359	14458
15°	14386	14029	14153
20°	14197	13701	13824
25°	14005	13346	13466
30°	13777	12966	13143
35°	13491	12458	12831
40°	13227	12044	12363
45°	12904	11722	12174
50°	12407	11108	12712
55°	11742	10397	10752
60°	10930	10395	9950
65°	9858	8563	8965
70°	8467	7399	7839
75°	6735	5694	6012
80°	5148	4051	4281
85°	3280	2072	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.5	3.2
10°-20°	854.8	9.3
20°-30°	1301.9	14.1
30°-40°	1584.0	17.2
40°-50°	1649.8	17.9
50°-60°	1507.9	16.3
60°-70°	1148.3	12.4
70°-80°	623.3	6.8
80°-90°	171.7	1.9
90°-100°	22.0	0.2
100°-110°	29.9	0.3
110°-120°	19.9	0.2
120°-130°	7.7	0.1
130°-140°	3.1	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°	2454.2	26.6
0°-40°	4038.2	43.8
0°-60°	7196.0	78.0
0°-90°	9139.2	99.1
90°-120°	71.8	0.8
90°-150°	83.5	0.9
90°-180°	85.0	0.9
0°-180°	9223.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3134	3134	3134	3134	3134	
5°	3106	3119	3133	3144	3146	295
15°	3006	3020	3029	3040	3042	849
25°	2809	2823	2828	2833	2833	1294
35°	2511	2529	2510	2541	2559	1574
45°	2142	2147	2168	2271	2220	1648
55°	1653	1658	1693	1807	1719	1479
65°	1098	1131	1162	1186	1187	1083
75°	529	588	595	607	607	570
85°	142	154	145	121	121	153
90°	28	41	38	35	34	20
95°	23	18	20	11	10	33
105°	82	106	10	11	10	84
115°	42	26	42	6	6	43
125°	19	14	6	1	2	18
135°	8	6	2	1	1	7
145°	2	1	1	1	1	2
155°	1	1	1	1	1	1
165°	2	2	2	2	2	0
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P#

CATALOG NUMBER: VT4S-LD5-9-PC-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3134.5	3134.5	3134.5	3134.5	3134.5
2.5°	3116.7	3126.5	3137.0	3148.1	3152.4
5°	3106.2	3119.2	3132.7	3144.4	3145.6
7.5°	3093.3	3106.2	3115.5	3125.3	3128.4
10°	3068.7	3087.2	3093.3	3100.1	3105.6
12.5°	3038.6	3055.8	3061.3	3074.9	3077.9
15°	3006.0	3020.1	3028.7	3040.4	3042.3
17.5°	2966.0	2980.1	2990.0	2996.7	3001.1
20°	2918.0	2929.7	2942.0	2946.9	2951.2
22.5°	2868.2	2875.6	2887.3	2895.3	2902.6
25°	2809.1	2823.3	2828.2	2833.1	2833.1
27.5°	2736.6	2757.5	2761.2	2753.8	2759.9
30°	2673.8	2688.0	2690.4	2681.8	2703.3
32.5°	2607.4	2608.0	2615.4	2613.5	2627.7
35°	2510.8	2528.7	2510.2	2541.0	2558.8
37.5°	2428.4	2443.2	2427.8	2474.5	2471.5
40°	2337.4	2351.5	2336.1	2376.1	2369.3
42.5°	2242.0	2254.3	2250.6	2269.1	2365.7
45°	2141.8	2146.7	2168.2	2270.9	2220.5
47.5°	2028.6	2032.9	2055.7	2018.7	1623.9
50°	1910.5	1914.8	1938.8	1525.4	2183.6
52.5°	1791.2	1785.0	1885.9	2051.3	1941.9
55°	1653.4	1658.3	1692.7	1807.2	1718.6
57.5°	1521.1	1532.2	1232.7	1590.0	1598.6
60°	1383.4	1403.6	1557.4	1455.3	1459.6
62.5°	1240.6	1275.1	1377.2	1321.2	1325.5
65°	1097.9	1131.2	1161.9	1185.9	1187.1
67.5°	946.0	997.1	1036.4	1027.2	1052.4
70°	807.0	783.6	891.9	888.8	918.3
72.5°	663.1	720.3	732.6	636.0	861.7
75°	529.0	588.0	594.8	607.1	607.1
77.5°	409.7	444.1	495.2	471.2	453.9
80°	314.9	324.8	354.9	366.0	359.8
82.5°	234.4	220.8	244.8	255.3	231.3
85°	142.1	154.4	145.2	120.6	120.6
87.5°	58.4	73.8	65.2	59.7	52.9
90°	28.3	40.6	38.1	35.1	33.8
92.5°	29.5	28.3	20.3	14.1	11.1
95°	22.8	18.5	19.7	11.1	10.5
97.5°	43.1	13.5	13.5	9.8	8.0
100°	80.0	11.7	12.3	9.8	6.8
102.5°	95.3	17.2	12.3	9.8	9.8
105°	81.8	105.8	10.5	11.1	9.8
107.5°	69.5	48.0	8.0	9.8	11.1
110°	58.4	33.8	6.8	9.2	10.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	49.2	25.2	6.8	6.8	9.2
115°	42.4	26.4	41.8	5.5	5.5
117.5°	35.7	41.8	18.5	4.3	5.5
120°	28.9	24.0	11.1	5.5	3.7
122.5°	22.8	17.8	7.4	1.8	3.7
125°	19.1	14.1	5.5	1.2	1.8
127.5°	15.4	11.7	3.7	1.2	1.2
130°	12.3	11.1	2.5	1.2	1.2
132.5°	10.5	8.0	6.8	1.2	1.2
135°	8.0	6.2	2.5	1.2	1.2
137.5°	6.2	4.9	1.8	1.2	1.2
140°	4.9	3.7	1.2	1.2	0.6
142.5°	3.7	2.5	1.2	1.2	0.6
145°	2.5	1.2	1.2	1.2	0.6
147.5°	1.8	1.2	1.2	1.2	1.2
150°	1.2	1.2	1.2	1.2	1.2
152.5°	1.2	1.2	1.2	1.2	1.2
155°	1.2	1.2	1.2	1.2	1.2
157.5°	1.2	1.2	1.2	1.2	1.2
160°	1.2	1.2	1.2	1.2	1.2
162.5°	1.8	1.8	1.8	1.8	1.2
165°	1.8	1.8	1.8	1.8	1.8
167.5°	1.8	1.8	1.8	1.8	1.8
170°	1.8	1.8	1.8	1.8	1.8
172.5°	1.8	1.8	1.8	1.8	1.8
175°	1.8	1.8	1.8	1.8	1.8
177.5°	1.8	1.8	1.8	1.8	1.8
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)