

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-DRF-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 (G3-1801-511-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT4S-LD5-9-DRF-L835-CD1-U
Description: VT4S VAPORTIGHT FIXTURE WITH 3500K LED AND FROSTED ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

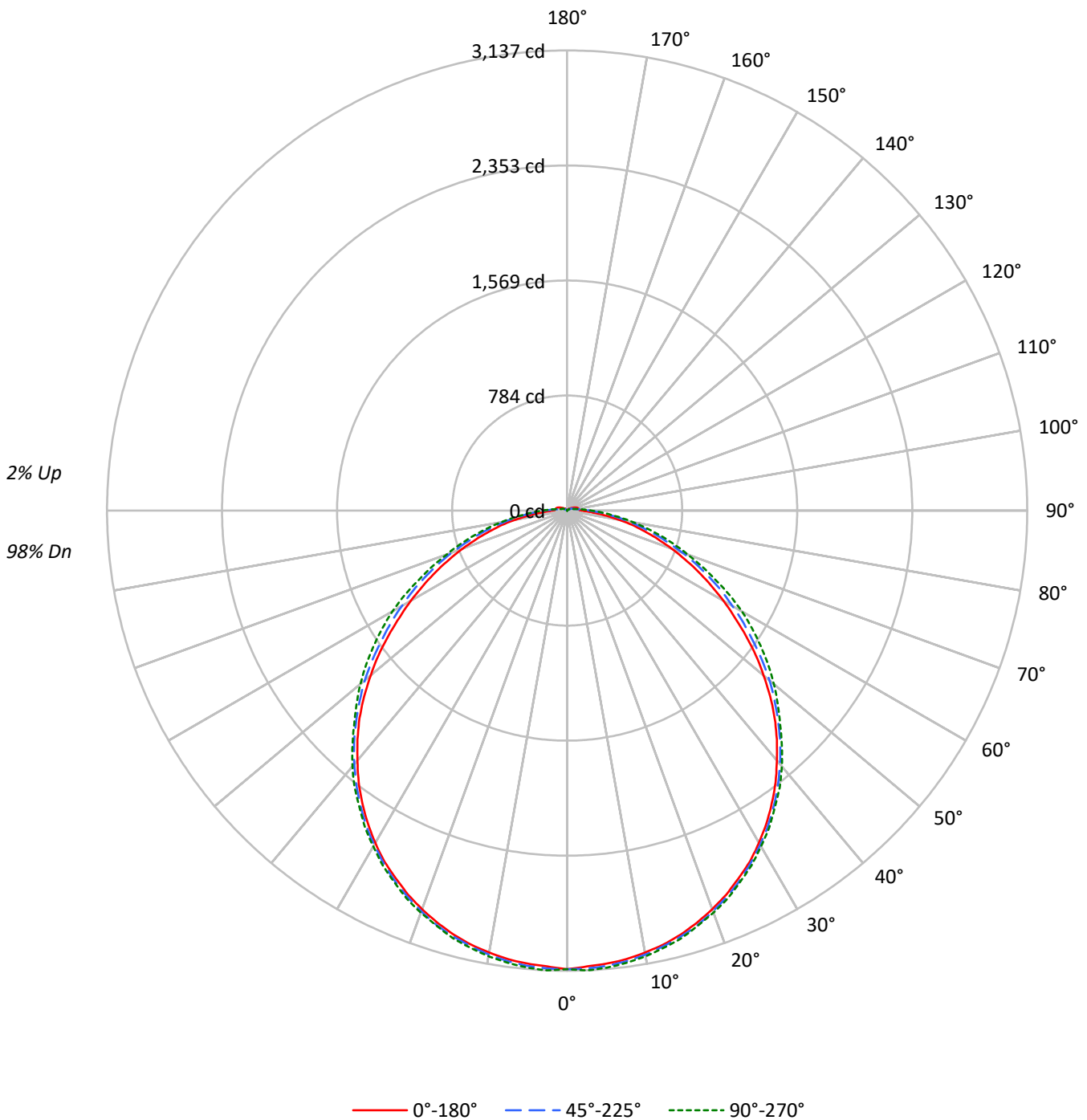
Lumens per Lamp: N/A
Luminaire Lumens: 9115.9 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	77	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	63	59	56
4	82	69	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	36
7	64	51	42	36	62	50	41	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	29
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14917	14917	14917
5°	14696	14607	14683
10°	14515	14267	14366
15°	14320	13916	14037
20°	14070	13540	13665
25°	13784	13136	13272
30°	13478	12681	12855
35°	13078	12191	12380
40°	12585	11641	11884
45°	12058	11003	11255
50°	11356	10321	10713
55°	10561	9494	10078
60°	9723	8691	9380
65°	8864	7859	8412
70°	7949	6919	7461
75°	6977	5894	6506
80°	5812	4838	5467
85°	4316	3757	4303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	3.2
10°-20°	847.4	9.3
20°-30°	1281.5	14.1
30°-40°	1534.9	16.8
40°-50°	1567.7	17.2
50°-60°	1388.0	15.2
60°-70°	1052.1	11.5
70°-80°	648.5	7.1
80°-90°	286.9	3.1
90°-100°	103.1	1.1
100°-110°	55.3	0.6
110°-120°	32.9	0.4
120°-130°	15.2	0.2
130°-140°	4.7	0.1
140°-150°	0.9	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	2424.8	26.6
0°-40°	3959.8	43.4
0°-60°	6915.5	75.9
0°-90°	8903.0	97.7
90°-120°	191.3	2.1
90°-150°	212.1	2.3
90°-180°	213.0	2.3
0°-180°	9115.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3126	3126	3126	3126	3126	
5°	3100	3107	3116	3124	3128	295
15°	2992	2995	3004	3011	3017	844
25°	2765	2773	2784	2792	2792	1275
35°	2434	2442	2456	2474	2469	1521
45°	2001	2012	2035	2059	2053	1540
55°	1487	1517	1546	1594	1611	1331
65°	987	1013	1066	1108	1114	978
75°	548	574	616	648	657	584
85°	187	224	263	286	286	190
90°	98	124	152	166	165	56
95°	81	81	89	97	97	65
105°	72	62	46	42	42	75
115°	47	38	30	26	27	48
125°	25	20	14	12	15	23
135°	11	9	3	3	5	9
145°	4	2	1	0	0	3
155°	1	1	1	1	0	1
165°	2	2	1	1	1	0
175°	2	2	2	1	1	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°	3126.3	3126.3	3126.3	3126.3	3126.3
2.5°	3110.9	3114.6	3124.5	3134.3	3137.4
5°	3100.5	3106.6	3115.8	3124.5	3127.5
7.5°	3085.1	3090.0	3098.0	3106.6	3109.1
10°	3059.3	3064.8	3073.4	3081.4	3085.7
12.5°	3030.4	3032.8	3040.8	3050.0	3052.5
15°	2992.2	2994.7	3004.5	3011.3	3017.4
17.5°	2944.9	2947.3	2962.1	2965.2	2965.8
20°	2892.0	2895.7	2907.3	2912.9	2917.2
22.5°	2834.2	2839.1	2848.3	2855.1	2861.2
25°	2764.7	2772.7	2783.7	2792.3	2792.3
27.5°	2697.6	2698.8	2709.3	2718.5	2724.7
30°	2615.8	2617.0	2631.2	2641.6	2644.1
32.5°	2529.1	2534.0	2548.8	2559.8	2562.9
35°	2433.8	2441.8	2456.5	2473.7	2468.8
37.5°	2334.7	2339.0	2360.0	2374.1	2379.6
40°	2224.0	2236.3	2257.9	2273.2	2277.5
42.5°	2115.8	2126.8	2150.2	2165.0	2166.8
45°	2001.4	2012.4	2035.2	2058.6	2053.0
47.5°	1877.8	1895.0	1917.7	1942.3	1946.6
50°	1748.6	1773.8	1801.5	1821.8	1840.2
52.5°	1621.9	1642.2	1674.2	1710.5	1727.7
55°	1487.2	1516.7	1545.6	1594.2	1610.8
57.5°	1353.7	1389.4	1425.1	1478.6	1493.3
60°	1230.7	1259.0	1302.1	1354.3	1375.9
62.5°	1105.2	1137.8	1185.8	1233.8	1248.6
65°	987.2	1013.0	1066.5	1107.7	1113.9
67.5°	868.5	899.2	949.6	992.7	995.2
70°	757.7	785.4	834.0	870.3	874.0
72.5°	650.7	679.0	720.2	757.1	764.5
75°	548.0	573.8	615.7	648.3	656.9
77.5°	457.0	476.0	513.0	549.9	552.9
80°	355.5	377.6	423.8	454.5	459.4
82.5°	270.6	297.1	338.3	366.0	367.2
85°	187.0	223.9	263.2	286.0	286.0
87.5°	129.2	167.9	203.0	218.3	220.2
90°	98.4	123.6	152.5	166.1	165.4
92.5°	85.5	97.2	115.6	126.7	124.9
95°	80.6	80.6	88.6	97.2	96.6
97.5°	78.1	73.2	70.1	75.7	75.0
100°	77.5	68.9	57.8	60.3	60.9
102.5°	75.7	65.2	50.4	49.8	50.4
105°	72.0	61.5	45.5	41.8	42.4
107.5°	67.0	56.6	41.8	36.9	37.5
110°	60.9	50.4	38.1	33.2	33.2



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	54.7	44.3	34.4	29.5	30.1
115°	47.4	38.1	30.1	25.8	27.1
117.5°	41.2	33.2	26.4	22.1	24.0
120°	35.1	28.9	21.5	18.5	20.9
122.5°	29.5	24.6	17.2	15.4	17.8
125°	25.2	20.3	13.5	12.3	14.8
127.5°	20.9	17.2	9.8	9.8	11.7
130°	17.2	14.1	6.2	7.4	9.2
132.5°	14.1	11.7	4.3	4.9	6.8
135°	11.1	9.2	3.1	3.1	4.9
137.5°	9.2	6.8	1.8	1.2	2.5
140°	6.8	4.9	1.2	0.0	0.6
142.5°	5.5	3.7	0.6	0.0	0.0
145°	3.7	2.5	0.6	0.0	0.0
147.5°	2.5	1.2	0.6	0.6	0.0
150°	1.2	1.2	0.6	0.6	0.0
152.5°	1.2	1.2	0.6	0.6	0.0
155°	1.2	1.2	1.2	0.6	0.0
157.5°	1.2	1.2	1.2	0.6	0.0
160°	1.2	1.2	1.2	0.6	0.6
162.5°	1.8	1.8	1.2	0.6	0.6
165°	1.8	1.8	1.2	0.6	0.6
167.5°	1.8	1.8	1.2	1.2	0.6
170°	1.8	1.8	1.2	0.6	0.6
172.5°	1.8	1.8	1.2	1.2	0.6
175°	1.8	1.8	1.8	1.2	0.6
177.5°	1.8	1.8	1.8	1.2	0.6
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)