

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-LD5-12-DRF-L835-CD2-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-LD5-12-DRF-L835-CD2-U
Description: VT4S VAPORTIGHT FIXTURE WITH 3500K LED AND FROSTED ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

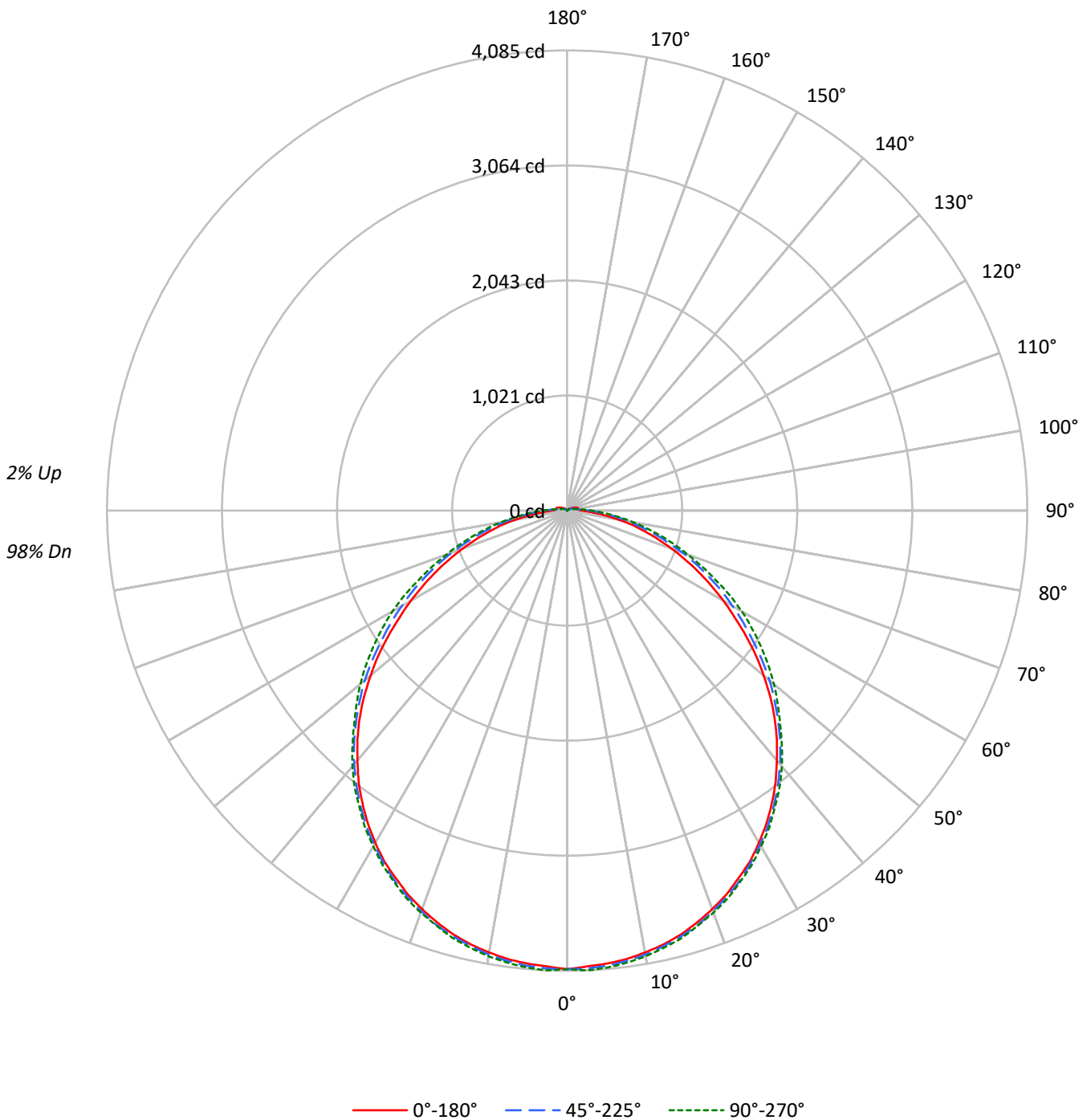
Lumens per Lamp: N/A
Luminaire Lumens: 11870.0 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 83.9
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°	19424	19424	19424
5°	19136	19020	19119
10°	18900	18577	18706
15°	18647	18121	18278
20°	18321	17631	17793
25°	17948	17104	17282
30°	17550	16511	16738
35°	17028	15874	16120
40°	16387	15157	15475
45°	15701	14328	14656
50°	14787	13439	13950
55°	13752	12362	13123
60°	12661	11316	12213
65°	11542	10234	10953
70°	10352	9009	9715
75°	9086	7674	8471
80°	7568	6299	7118
85°	5620	4893	5603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.4	3.2
10°-20°	1103.4	9.3
20°-30°	1668.6	14.1
30°-40°	1998.6	16.8
40°-50°	2041.3	17.2
50°-60°	1807.3	15.2
60°-70°	1369.9	11.5
70°-80°	844.5	7.1
80°-90°	373.6	3.1
90°-100°	134.2	1.1
100°-110°	72.0	0.6
110°-120°	42.9	0.4
120°-130°	19.8	0.2
130°-140°	6.1	0.1
140°-150°	1.2	0.0
150°-160°	0.5	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	3157.4	26.6
0°-40°	5156.0	43.4
0°-60°	9004.7	75.9
0°-90°	11592.7	97.7
90°-120°	249.1	2.1
90°-150°	276.2	2.3
90°-180°	277.0	2.3
0°-180°	11870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4071	4071	4071	4071	4071	
5°	4037	4045	4057	4068	4072	384
15°	3896	3899	3912	3921	3929	1099
25°	3600	3610	3625	3636	3636	1660
35°	3169	3179	3199	3221	3215	1981
45°	2606	2620	2650	2680	2673	2006
55°	1936	1975	2013	2076	2098	1733
65°	1285	1319	1389	1442	1450	1274
75°	714	747	802	844	855	760
85°	244	292	343	372	372	248
90°	128	161	199	216	215	73
95°	105	105	115	126	126	85
105°	94	80	59	54	55	98
115°	62	50	39	34	35	62
125°	33	26	18	16	19	30
135°	14	12	4	4	6	12
145°	5	3	1	0	0	3
155°	2	2	2	1	0	1
165°	2	2	2	1	1	1
175°	2	2	2	2	1	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4070.8	4070.8	4070.8	4070.8	4070.8
2.5°	4050.8	4055.6	4068.4	4081.2	4085.2
5°	4037.1	4045.2	4057.2	4068.4	4072.4
7.5°	4017.1	4023.5	4033.9	4045.2	4048.4
10°	3983.5	3990.7	4001.9	4012.3	4017.9
12.5°	3945.8	3949.1	3959.5	3971.5	3974.7
15°	3896.2	3899.4	3912.2	3921.0	3929.0
17.5°	3834.5	3837.7	3857.0	3861.0	3861.8
20°	3765.7	3770.5	3785.7	3792.9	3798.5
22.5°	3690.4	3696.8	3708.8	3717.6	3725.6
25°	3599.9	3610.3	3624.7	3635.9	3635.9
27.5°	3512.6	3514.2	3527.8	3539.8	3547.8
30°	3406.1	3407.7	3426.1	3439.7	3442.9
32.5°	3293.1	3299.6	3318.8	3333.2	3337.2
35°	3169.0	3179.4	3198.6	3221.1	3214.7
37.5°	3040.1	3045.7	3072.9	3091.3	3098.5
40°	2895.9	2911.9	2940.0	2960.0	2965.6
42.5°	2755.0	2769.4	2799.8	2819.0	2821.4
45°	2606.0	2620.4	2650.1	2680.5	2673.3
47.5°	2445.0	2467.5	2497.1	2529.1	2534.7
50°	2276.9	2309.7	2345.7	2372.2	2396.2
52.5°	2111.9	2138.3	2179.9	2227.2	2249.6
55°	1936.5	1974.9	2012.6	2075.8	2097.5
57.5°	1762.7	1809.1	1855.6	1925.3	1944.5
60°	1602.5	1639.4	1695.4	1763.5	1791.5
62.5°	1439.1	1481.6	1544.1	1606.5	1625.7
65°	1285.4	1319.0	1388.7	1442.4	1450.4
67.5°	1130.8	1170.9	1236.5	1292.6	1295.8
70°	986.7	1022.7	1086.0	1133.2	1138.0
72.5°	847.3	884.2	937.8	985.9	995.5
75°	713.6	747.2	801.7	844.1	855.3
77.5°	595.0	619.9	667.9	716.0	720.0
80°	462.9	491.7	551.8	591.8	598.2
82.5°	352.4	386.8	440.5	476.5	478.1
85°	243.5	291.5	342.8	372.4	372.4
87.5°	168.2	218.6	264.3	284.3	286.7
90°	128.1	161.0	198.6	216.2	215.4
92.5°	111.3	126.5	150.6	165.0	162.6
95°	104.9	104.9	115.3	126.5	125.7
97.5°	101.7	95.3	91.3	98.5	97.7
100°	100.9	89.7	75.3	78.5	79.3
102.5°	98.5	84.9	65.7	64.9	65.7
105°	93.7	80.1	59.3	54.5	55.3
107.5°	87.3	73.7	54.5	48.1	48.9
110°	79.3	65.7	49.7	43.2	43.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	71.3	57.7	44.8	38.4	39.2
115°	61.7	49.7	39.2	33.6	35.2
117.5°	53.7	43.2	34.4	28.8	31.2
120°	45.6	37.6	28.0	24.0	27.2
122.5°	38.4	32.0	22.4	20.0	23.2
125°	32.8	26.4	17.6	16.0	19.2
127.5°	27.2	22.4	12.8	12.8	15.2
130°	22.4	18.4	8.0	9.6	12.0
132.5°	18.4	15.2	5.6	6.4	8.8
135°	14.4	12.0	4.0	4.0	6.4
137.5°	12.0	8.8	2.4	1.6	3.2
140°	8.8	6.4	1.6	0.0	0.8
142.5°	7.2	4.8	0.8	0.0	0.0
145°	4.8	3.2	0.8	0.0	0.0
147.5°	3.2	1.6	0.8	0.8	0.0
150°	1.6	1.6	0.8	0.8	0.0
152.5°	1.6	1.6	0.8	0.8	0.0
155°	1.6	1.6	1.6	0.8	0.0
157.5°	1.6	1.6	1.6	0.8	0.0
160°	1.6	1.6	1.6	0.8	0.8
162.5°	2.4	2.4	1.6	0.8	0.8
165°	2.4	2.4	1.6	0.8	0.8
167.5°	2.4	2.4	1.6	1.6	0.8
170°	2.4	2.4	1.6	0.8	0.8
172.5°	2.4	2.4	1.6	1.6	0.8
175°	2.4	2.4	2.4	1.6	0.8
177.5°	2.4	2.4	2.4	1.6	0.8
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)