

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-DR-L850-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 (G3-1801-511-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT4S-LD5-12-DR-L850-CD2-U
Description: VT4S VAPORTIGHT FIXTURE WITH 5000K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

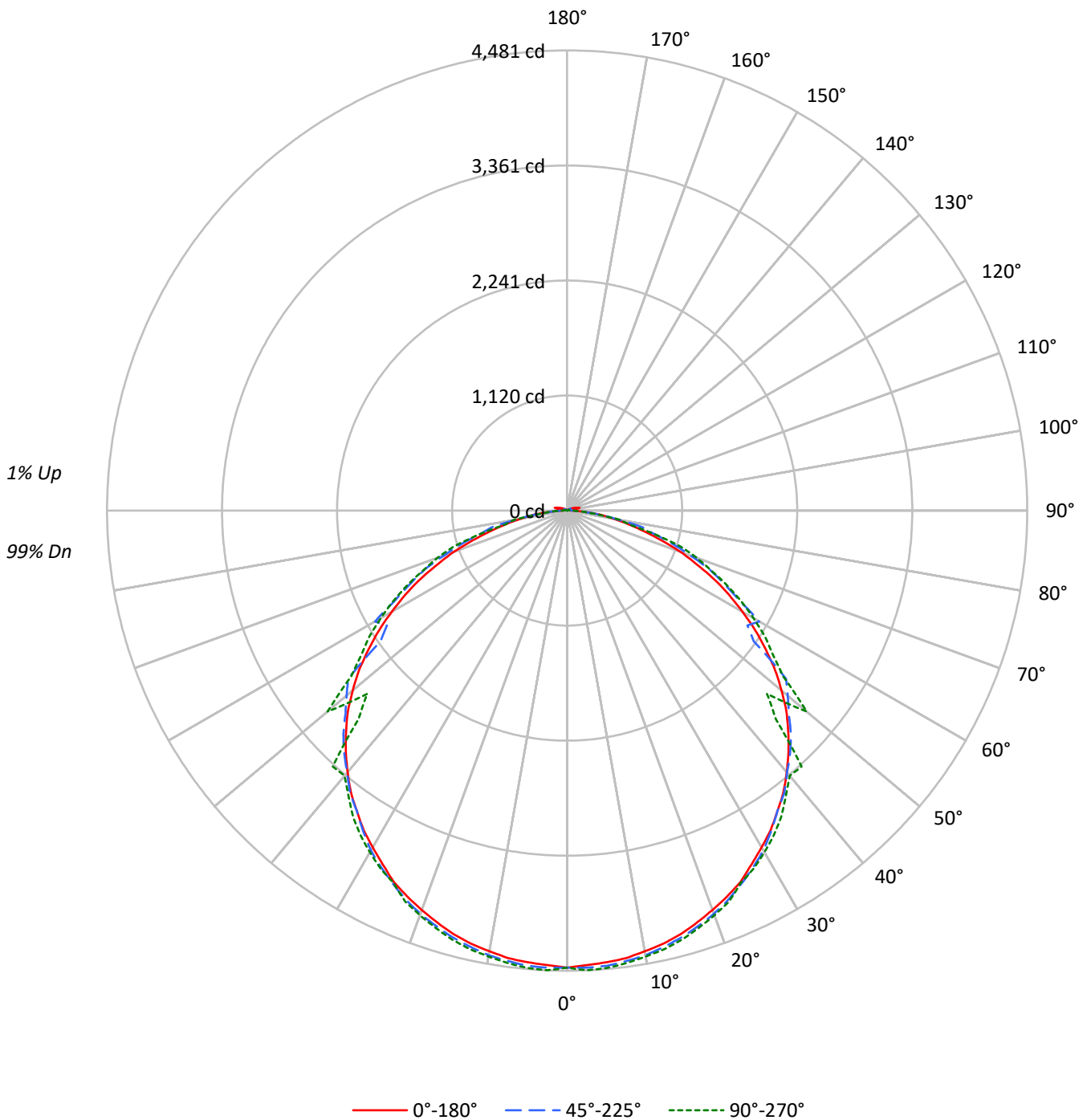
Lumens per Lamp: N/A
Luminaire Lumens: 13149.0 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 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	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	84	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	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	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	31	43	36	31	42	35	31	29
9	56	42	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21239	21239	21239
5°	20926	20860	20983
10°	20674	20409	20527
15°	20439	19930	20121
20°	20137	19459	19637
25°	19903	18931	19015
30°	19509	18416	18680
35°	19187	17721	18235
40°	18820	17175	17595
45°	18350	16664	15755
50°	17699	16063	17731
55°	16770	13628	15290
60°	15570	14416	14285
65°	14152	12420	12928
70°	12306	10544	11447
75°	9785	8334	8553
80°	7529	5704	6213
85°	4750	2718	2760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.8	3.2
10°-20°	1214.2	9.2
20°-30°	1848.1	14.1
30°-40°	2251.4	17.1
40°-50°	2351.4	17.9
50°-60°	2151.2	16.4
60°-70°	1642.9	12.5
70°-80°	895.7	6.8
80°-90°	242.0	1.8
90°-100°	37.0	0.3
100°-110°	45.0	0.3
110°-120°	27.1	0.2
120°-130°	12.9	0.1
130°-140°	4.4	0.0
140°-150°	1.3	0.0
150°-160°	0.6	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	3485.1	26.5
0°-40°	5736.4	43.6
0°-60°	10239.0	77.9
0°-90°	13019.6	99.0
90°-120°	109.1	0.8
90°-150°	127.8	1.0
90°-180°	129.0	1.0
0°-180°	13149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4451	4451	4451	4451	4451	
5°	4415	4433	4450	4465	4469	420
15°	4271	4287	4303	4318	4325	1205
25°	3992	4005	4012	4023	4000	1836
35°	3571	3590	3571	3617	3636	2236
45°	3046	3060	3082	3240	2874	2348
55°	2361	2375	2219	2461	2444	2110
65°	1576	1624	1685	1691	1712	1555
75°	768	827	871	869	864	832
85°	206	207	190	185	183	225
90°	35	59	56	55	53	27
95°	34	31	32	27	27	40
105°	108	143	18	20	20	108
115°	53	27	35	13	14	54
125°	24	20	10	6	7	22
135°	11	8	4	3	3	9
145°	4	3	1	1	1	3
155°	1	1	1	1	1	1
165°	3	3	3	3	1	1
175°	3	3	3	3	3	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4451.2	4451.2	4451.2	4451.2	4451.2
2.5°	4430.2	4441.4	4455.4	4475.0	4480.6
5°	4414.8	4433.0	4449.8	4465.2	4469.4
7.5°	4395.2	4417.6	4424.6	4444.2	4444.2
10°	4357.4	4382.6	4396.6	4409.2	4409.2
12.5°	4321.0	4339.2	4351.8	4367.2	4374.2
15°	4270.6	4287.4	4302.8	4318.2	4325.2
17.5°	4206.2	4232.8	4242.6	4255.2	4260.8
20°	4139.0	4164.2	4178.2	4189.4	4192.2
22.5°	4067.6	4087.2	4101.2	4105.4	4120.8
25°	3992.1	4004.7	4011.7	4022.8	4000.5
27.5°	3885.7	3909.5	3919.3	3909.5	3931.9
30°	3786.3	3810.1	3821.3	3824.1	3842.3
32.5°	3688.3	3705.1	3699.5	3720.5	3747.1
35°	3570.7	3590.3	3570.7	3616.9	3636.5
37.5°	3460.2	3470.0	3471.4	3517.5	3497.9
40°	3325.8	3338.4	3331.4	3360.8	3372.0
42.5°	3190.0	3201.2	3213.8	3236.2	3379.0
45°	3045.8	3059.8	3082.2	3240.4	2873.7
47.5°	2896.1	2898.9	2928.3	2686.1	2639.9
50°	2725.3	2723.9	2803.7	2550.3	3045.8
52.5°	2554.5	2553.1	2686.1	2806.5	2649.7
55°	2361.4	2375.4	2218.6	2460.7	2443.9
57.5°	2173.8	2186.4	2080.0	2248.0	2284.4
60°	1970.8	2019.8	2159.8	2094.0	2095.4
62.5°	1777.7	1821.1	1882.6	1903.6	1912.0
65°	1576.1	1623.7	1685.3	1690.9	1711.9
67.5°	1361.9	1430.5	1504.7	1494.9	1514.5
70°	1173.0	1089.0	1271.0	1279.4	1340.9
72.5°	960.2	1061.0	1075.0	895.8	1153.4
75°	768.5	827.2	870.6	869.2	863.6
77.5°	608.9	648.1	753.1	677.5	613.1
80°	460.5	471.7	499.7	496.9	522.1
82.5°	347.1	330.3	340.1	335.9	296.7
85°	205.8	207.2	190.4	184.8	183.4
87.5°	85.4	95.2	92.4	88.2	95.2
90°	35.0	58.8	56.0	54.6	53.2
92.5°	39.2	42.0	39.2	33.6	29.4
95°	33.6	30.8	32.2	26.6	26.6
97.5°	46.2	25.2	25.2	22.4	21.0
100°	92.4	22.4	23.8	19.6	19.6
102.5°	123.2	23.8	21.0	19.6	21.0
105°	107.8	142.8	18.2	19.6	19.6
107.5°	91.0	84.0	16.8	18.2	19.6
110°	77.0	51.8	14.0	16.8	18.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.0	36.4	12.6	14.0	16.8
115°	53.2	26.6	35.0	12.6	14.0
117.5°	44.8	28.0	37.8	11.2	12.6
120°	36.4	57.4	19.6	9.8	9.8
122.5°	29.4	26.6	14.0	7.0	8.4
125°	23.8	19.6	9.8	5.6	7.0
127.5°	19.6	15.4	7.0	4.2	5.6
130°	16.8	14.0	4.2	4.2	4.2
132.5°	14.0	11.2	4.2	2.8	4.2
135°	11.2	8.4	4.2	2.8	2.8
137.5°	8.4	7.0	2.8	2.8	2.8
140°	7.0	4.2	1.4	1.4	1.4
142.5°	5.6	4.2	1.4	1.4	1.4
145°	4.2	2.8	1.4	1.4	1.4
147.5°	2.8	1.4	1.4	1.4	1.4
150°	1.4	1.4	1.4	1.4	1.4
152.5°	1.4	1.4	1.4	1.4	1.4
155°	1.4	1.4	1.4	1.4	1.4
157.5°	1.4	1.4	1.4	1.4	1.4
160°	1.4	1.4	1.4	1.4	1.4
162.5°	2.8	2.8	2.8	2.8	1.4
165°	2.8	2.8	2.8	2.8	1.4
167.5°	2.8	2.8	2.8	2.8	1.4
170°	2.8	2.8	2.8	2.8	1.4
172.5°	2.8	2.8	2.8	2.8	2.8
175°	2.8	2.8	2.8	2.8	2.8
177.5°	2.8	2.8	2.8	2.8	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)