

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-LD5-18-DR-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 (G3-1801-511-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT4S-LD5-18-DR-L835-CD2-U
Description: VT4S VAPORTIGHT FIXTURE WITH 3500K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

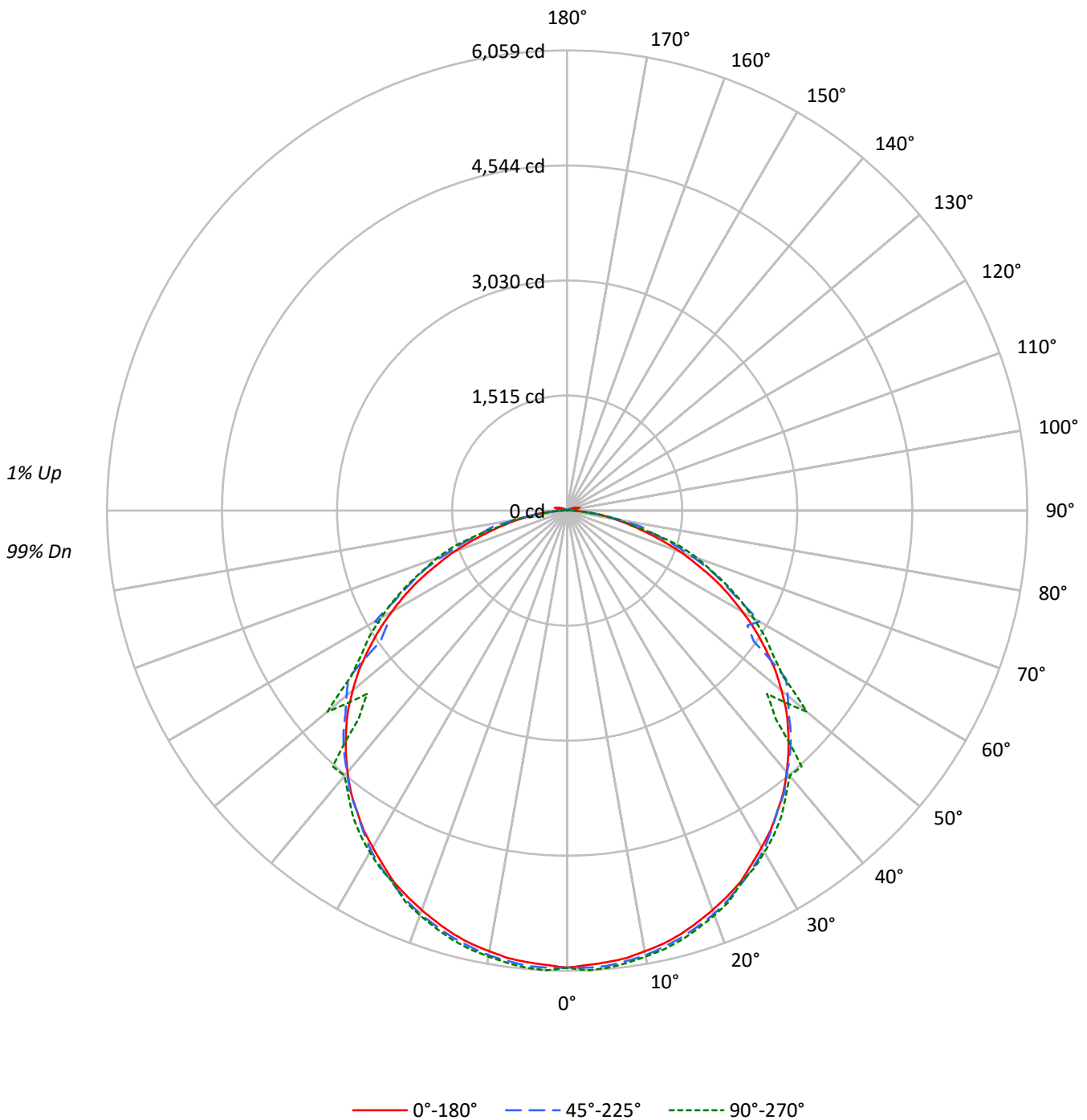
Lumens per Lamp: N/A
Luminaire Lumens: 17780.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 137.5
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	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°	28719	28719	28719
5°	28295	28207	28373
10°	27956	27597	27757
15°	27637	26949	27208
20°	27229	26312	26553
25°	26913	25597	25711
30°	26380	24902	25259
35°	25944	23962	24657
40°	25448	23224	23792
45°	24814	22533	21303
50°	23932	21720	23977
55°	22675	18427	20675
60°	21054	19494	19316
65°	19136	16793	17481
70°	16640	14258	15479
75°	13230	11270	11565
80°	10181	7714	8401
85°	6421	3674	3730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.7	3.2
10°-20°	1641.8	9.2
20°-30°	2499.0	14.1
30°-40°	3044.3	17.1
40°-50°	3179.5	17.9
50°-60°	2908.8	16.4
60°-70°	2221.5	12.5
70°-80°	1211.2	6.8
80°-90°	327.2	1.8
90°-100°	50.1	0.3
100°-110°	60.9	0.3
110°-120°	36.6	0.2
120°-130°	17.4	0.1
130°-140°	6.0	0.0
140°-150°	1.8	0.0
150°-160°	0.9	0.0
160°-170°	0.9	0.0
170°-180°	0.4	0.0
0°-30°	4712.5	26.5
0°-40°	7756.8	43.6
0°-60°	13845.1	77.9
0°-90°	17605.0	99.0
90°-120°	147.6	0.8
90°-150°	172.8	1.0
90°-180°	175.0	1.0
0°-180°	17780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6019	6019	6019	6019	6019	
5°	5970	5994	6017	6038	6043	568
15°	5775	5797	5818	5839	5848	1629
25°	5398	5415	5424	5440	5409	2483
35°	4828	4855	4828	4891	4917	3024
45°	4119	4138	4168	4382	3886	3174
55°	3193	3212	3000	3327	3305	2854
65°	2131	2196	2279	2286	2315	2103
75°	1039	1119	1177	1175	1168	1124
85°	278	280	257	250	248	304
90°	47	80	76	74	72	36
95°	45	42	44	36	36	54
105°	146	193	25	26	26	146
115°	72	36	47	17	19	73
125°	32	26	13	8	10	30
135°	15	11	6	4	4	12
145°	6	4	2	2	2	4
155°	2	2	2	2	2	1
165°	4	4	4	4	2	1
175°	4	4	4	4	4	0
180°	4	4	4	4	4	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6018.8	6018.8	6018.8	6018.8	6018.8
2.5°	5990.5	6005.6	6024.5	6051.0	6058.6
5°	5969.6	5994.2	6017.0	6037.8	6043.4
7.5°	5943.1	5973.4	5982.9	6009.4	6009.4
10°	5892.0	5926.1	5945.0	5962.1	5962.1
12.5°	5842.8	5867.4	5884.5	5905.3	5914.7
15°	5774.7	5797.4	5818.2	5839.0	5848.5
17.5°	5687.6	5723.6	5736.8	5753.9	5761.4
20°	5596.8	5630.8	5649.8	5664.9	5668.7
22.5°	5500.2	5526.7	5545.7	5551.3	5572.2
25°	5398.0	5415.1	5424.5	5439.7	5409.4
27.5°	5254.2	5286.4	5299.6	5286.4	5316.6
30°	5119.8	5152.0	5167.1	5170.9	5195.5
32.5°	4987.3	5010.0	5002.5	5030.8	5066.8
35°	4828.3	4854.8	4828.3	4890.8	4917.3
37.5°	4678.8	4692.0	4693.9	4756.4	4729.9
40°	4497.1	4514.1	4504.7	4544.4	4559.6
42.5°	4313.5	4328.6	4345.7	4376.0	4569.0
45°	4118.6	4137.5	4167.8	4381.6	3885.8
47.5°	3916.0	3919.8	3959.6	3632.1	3569.7
50°	3685.1	3683.2	3791.1	3448.5	4118.6
52.5°	3454.2	3452.3	3632.1	3794.9	3582.9
55°	3193.0	3211.9	3000.0	3327.4	3304.7
57.5°	2939.4	2956.4	2812.6	3039.7	3088.9
60°	2664.9	2731.2	2920.5	2831.5	2833.4
62.5°	2403.8	2462.4	2545.7	2574.1	2585.5
65°	2131.2	2195.6	2278.8	2286.4	2314.8
67.5°	1841.6	1934.4	2034.7	2021.4	2047.9
70°	1586.1	1472.5	1718.6	1729.9	1813.2
72.5°	1298.4	1434.7	1453.6	1211.3	1559.6
75°	1039.1	1118.6	1177.3	1175.4	1167.8
77.5°	823.3	876.3	1018.3	916.1	829.0
80°	622.7	637.8	675.7	671.9	706.0
82.5°	469.4	446.7	459.9	454.3	401.3
85°	278.2	280.1	257.4	249.8	247.9
87.5°	115.5	128.7	124.9	119.2	128.7
90°	47.3	79.5	75.7	73.8	71.9
92.5°	53.0	56.8	53.0	45.4	39.7
95°	45.4	41.6	43.5	36.0	36.0
97.5°	62.5	34.1	34.1	30.3	28.4
100°	124.9	30.3	32.2	26.5	26.5
102.5°	166.6	32.2	28.4	26.5	28.4
105°	145.7	193.1	24.6	26.5	26.5
107.5°	123.0	113.6	22.7	24.6	26.5
110°	104.1	70.0	18.9	22.7	24.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	85.2	49.2	17.0	18.9	22.7
115°	71.9	36.0	47.3	17.0	18.9
117.5°	60.6	37.9	51.1	15.1	17.0
120°	49.2	77.6	26.5	13.2	13.2
122.5°	39.7	36.0	18.9	9.5	11.4
125°	32.2	26.5	13.2	7.6	9.5
127.5°	26.5	20.8	9.5	5.7	7.6
130°	22.7	18.9	5.7	5.7	5.7
132.5°	18.9	15.1	5.7	3.8	5.7
135°	15.1	11.4	5.7	3.8	3.8
137.5°	11.4	9.5	3.8	3.8	3.8
140°	9.5	5.7	1.9	1.9	1.9
142.5°	7.6	5.7	1.9	1.9	1.9
145°	5.7	3.8	1.9	1.9	1.9
147.5°	3.8	1.9	1.9	1.9	1.9
150°	1.9	1.9	1.9	1.9	1.9
152.5°	1.9	1.9	1.9	1.9	1.9
155°	1.9	1.9	1.9	1.9	1.9
157.5°	1.9	1.9	1.9	1.9	1.9
160°	1.9	1.9	1.9	1.9	1.9
162.5°	3.8	3.8	3.8	3.8	1.9
165°	3.8	3.8	3.8	3.8	1.9
167.5°	3.8	3.8	3.8	3.8	1.9
170°	3.8	3.8	3.8	3.8	1.9
172.5°	3.8	3.8	3.8	3.8	3.8
175°	3.8	3.8	3.8	3.8	3.8
177.5°	3.8	3.8	3.8	3.8	3.8
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)