

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-PCF-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 (G3-1801-511-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT4S-LD5-18-PCF-L835-CD2-U
Description: VT4S VAPORTIGHT FIXTURE WITH 3500K LED AND FROSTED POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

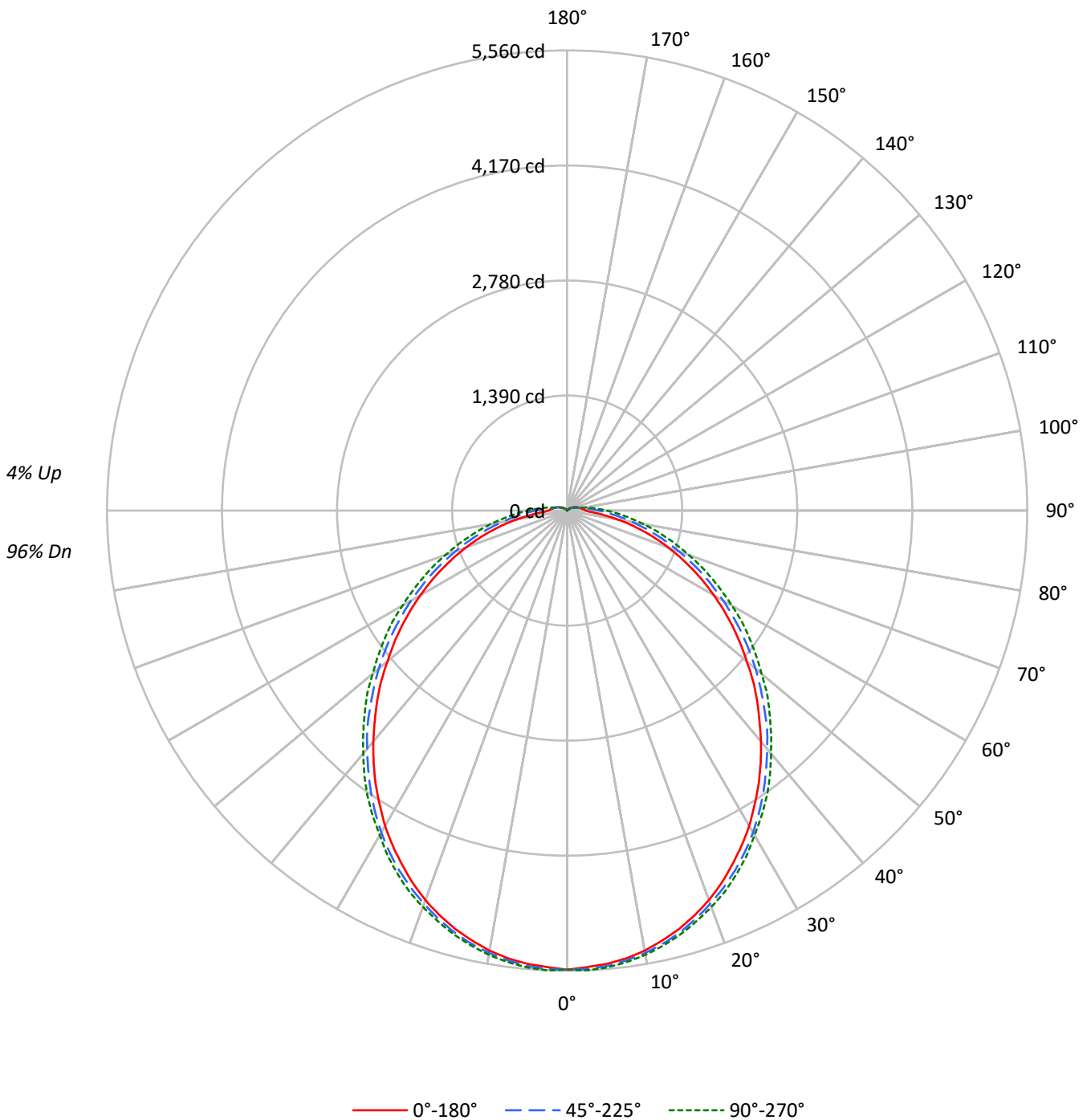
Lumens per Lamp: N/A
Luminaire Lumens: 15826.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	102	97	93	104	99	95	91	94	91	88	90	87	85	86	83	81	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	41
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26465	26465	26465
5°	26055	25891	26018
10°	25617	25195	25378
15°	25040	24425	24652
20°	24360	23544	23868
25°	23532	22639	23033
30°	22668	21651	22019
35°	21672	20536	21092
40°	20617	19385	19995
45°	19567	18196	18961
50°	18384	17035	17844
55°	17336	15797	16827
60°	16179	14541	15663
65°	14962	13252	14496
70°	13589	11889	13290
75°	12055	10484	12187
80°	10146	9154	11097
85°	7991	7984	10241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.9	3.3
10°-20°	1485.2	9.4
20°-30°	2205.9	13.9
30°-40°	2581.8	16.3
40°-50°	2594.4	16.4
50°-60°	2300.2	14.5
60°-70°	1784.6	11.3
70°-80°	1164.1	7.4
80°-90°	608.0	3.8
90°-100°	290.8	1.8
100°-110°	151.4	1.0
110°-120°	82.4	0.5
120°-130°	38.8	0.2
130°-140°	11.9	0.1
140°-150°	1.7	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	4215.1	26.6
0°-40°	6796.8	42.9
0°-60°	11691.5	73.9
0°-90°	15248.2	96.3
90°-120°	524.6	3.3
90°-150°	577.0	3.6
90°-180°	578.0	3.7
0°-180°	15826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5546	5546	5546	5546	5546	
5°	5497	5504	5523	5536	5542	522
15°	5232	5245	5273	5291	5299	1474
25°	4720	4749	4798	4835	4846	2174
35°	4033	4074	4138	4189	4206	2521
45°	3248	3291	3366	3430	3459	2503
55°	2441	2486	2572	2659	2690	2183
65°	1666	1712	1798	1895	1920	1652
75°	947	992	1095	1196	1231	1005
85°	346	443	559	657	681	343
90°	224	288	383	456	473	126
95°	194	207	258	311	324	153
105°	142	135	139	141	148	151
115°	97	80	81	76	82	97
125°	59	48	34	35	44	54
135°	31	24	6	7	13	24
145°	8	5	0	0	0	6
155°	2	2	0	0	0	1
165°	2	2	1	0	0	1
175°	4	2	1	0	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5546.4	5546.4	5546.4	5546.4	5546.4
2.5°	5520.5	5527.6	5542.9	5558.2	5560.5
5°	5497.0	5504.0	5522.9	5535.8	5541.7
7.5°	5456.9	5464.0	5481.6	5499.3	5501.7
10°	5399.2	5408.6	5427.5	5447.5	5451.0
12.5°	5320.3	5335.6	5359.2	5376.8	5381.6
15°	5232.0	5245.0	5273.2	5290.9	5299.1
17.5°	5126.0	5142.5	5171.9	5193.1	5202.6
20°	5007.1	5023.6	5055.4	5091.9	5095.4
22.5°	4872.8	4898.7	4932.9	4968.2	4982.4
25°	4719.8	4749.2	4797.5	4835.2	4845.8
27.5°	4564.3	4592.6	4651.5	4690.3	4698.6
30°	4399.4	4430.1	4492.5	4523.1	4529.0
32.5°	4215.7	4251.1	4318.2	4360.6	4371.2
35°	4033.2	4074.4	4138.0	4188.7	4206.3
37.5°	3840.1	3886.0	3947.3	4012.0	4026.2
40°	3643.4	3691.7	3760.0	3820.1	3831.9
42.5°	3438.5	3491.5	3576.3	3624.6	3647.0
45°	3247.8	3291.3	3365.5	3430.3	3458.6
47.5°	3046.4	3090.0	3167.7	3244.2	3276.0
50°	2830.9	2889.8	2973.4	3047.6	3065.2
52.5°	2640.1	2696.7	2769.7	2852.1	2879.2
55°	2441.1	2485.9	2571.8	2659.0	2689.6
57.5°	2243.3	2291.6	2370.5	2458.8	2504.7
60°	2047.8	2093.7	2178.5	2270.4	2297.5
62.5°	1858.2	1905.3	1981.9	2082.0	2109.1
65°	1666.3	1712.2	1798.2	1894.7	1919.5
67.5°	1480.2	1523.8	1612.1	1714.6	1745.2
70°	1295.3	1351.9	1433.1	1528.5	1556.8
72.5°	1121.1	1170.5	1263.5	1360.1	1393.1
75°	946.8	991.5	1095.2	1196.4	1230.6
77.5°	783.1	840.8	942.1	1052.8	1079.8
80°	620.6	681.8	801.9	907.9	932.6
82.5°	473.4	552.3	674.8	779.6	794.9
85°	346.2	442.8	559.4	657.1	680.6
87.5°	260.2	354.5	468.7	549.9	571.1
90°	223.7	288.5	382.7	455.7	473.4
92.5°	208.4	240.2	314.4	379.2	391.0
95°	194.3	207.3	257.9	310.9	323.8
97.5°	180.2	184.9	216.7	254.4	265.0
100°	167.2	168.4	182.5	209.6	216.7
102.5°	154.3	150.7	156.6	170.7	176.6
105°	142.5	135.4	139.0	141.3	148.4
107.5°	130.7	120.1	122.5	120.1	123.6
110°	118.9	104.8	107.2	103.6	107.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.2	91.9	94.2	89.5	94.2
115°	96.6	80.1	81.3	76.5	82.4
117.5°	87.1	71.8	68.3	64.8	71.8
120°	76.5	62.4	56.5	54.2	62.4
122.5°	68.3	55.3	44.7	44.7	53.0
125°	58.9	48.3	34.1	35.3	43.6
127.5°	51.8	41.2	24.7	28.3	35.3
130°	44.7	35.3	15.3	21.2	28.3
132.5°	36.5	28.3	9.4	14.1	20.0
135°	30.6	23.6	5.9	7.1	13.0
137.5°	24.7	17.7	2.4	1.2	5.9
140°	18.8	13.0	1.2	0.0	0.0
142.5°	13.0	8.2	0.0	0.0	0.0
145°	8.2	4.7	0.0	0.0	0.0
147.5°	4.7	2.4	0.0	0.0	0.0
150°	2.4	1.2	0.0	0.0	0.0
152.5°	2.4	1.2	0.0	0.0	0.0
155°	2.4	2.4	0.0	0.0	0.0
157.5°	2.4	2.4	1.2	0.0	0.0
160°	2.4	2.4	1.2	0.0	0.0
162.5°	2.4	2.4	1.2	0.0	0.0
165°	2.4	2.4	1.2	0.0	0.0
167.5°	2.4	2.4	1.2	0.0	0.0
170°	2.4	2.4	1.2	0.0	0.0
172.5°	2.4	2.4	1.2	0.0	0.0
175°	3.5	2.4	1.2	0.0	0.0
177.5°	3.5	2.4	1.2	0.0	0.0
180°	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)