

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-LD5-15-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-LD5-15-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

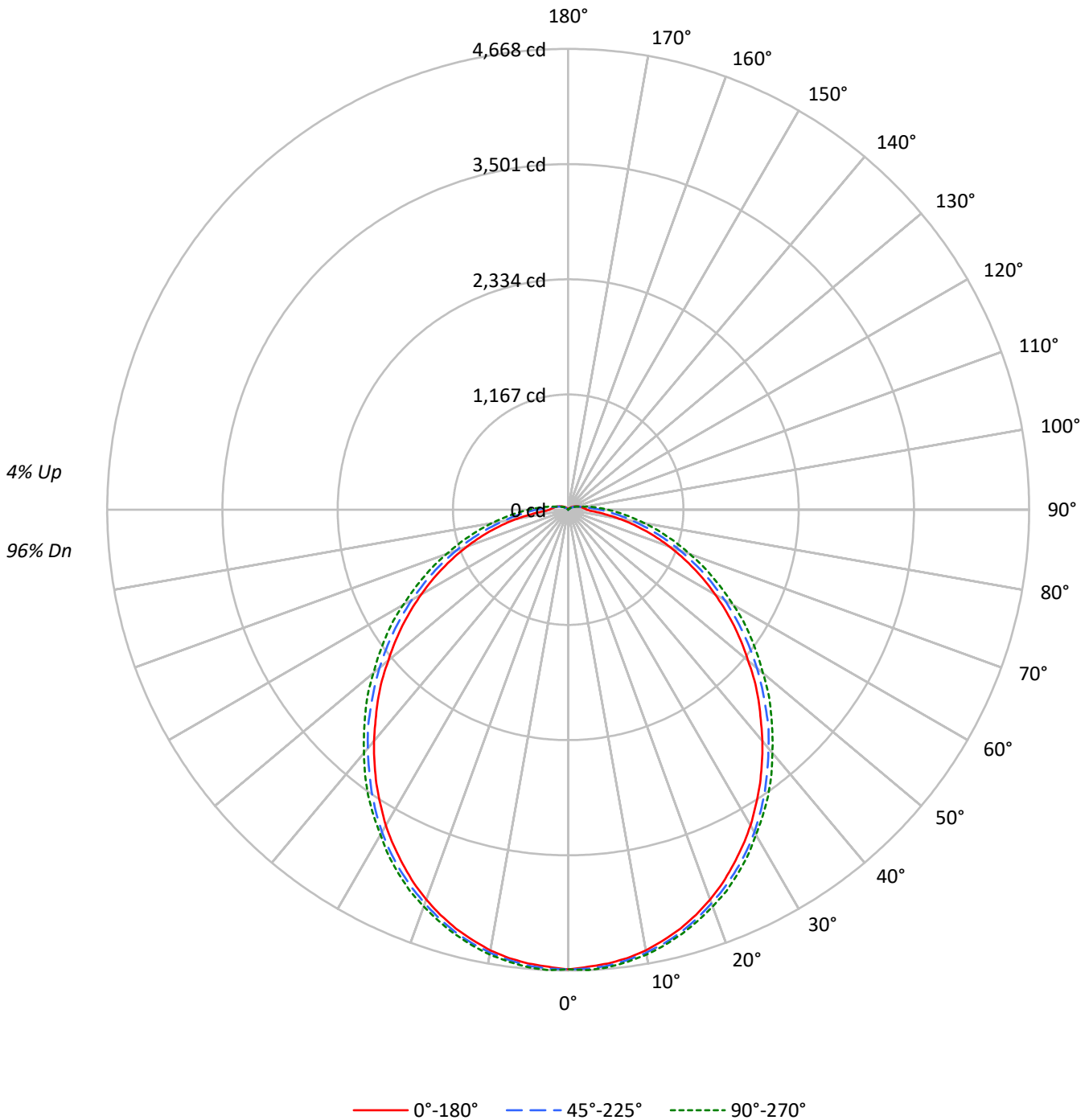
Lumens per Lamp: N/A
Luminaire Lumens: 13285.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 108.3
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



TEST NUMBER: P#
CATALOG NUMBER: VT4S-LD5-15-PCF-L835-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: VT4S-LD5-15-PCF-L835-CD2-U

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°	22216	22216	22216
5°	21872	21734	21840
10°	21504	21149	21303
15°	21020	20503	20694
20°	20449	19764	20035
25°	19753	19004	19334
30°	19029	18175	18483
35°	18192	17239	17706
40°	17308	16272	16784
45°	16425	15275	15917
50°	15433	14300	14979
55°	14553	13261	14125
60°	13581	12206	13148
65°	12559	11124	12168
70°	11408	9980	11156
75°	10120	8800	10230
80°	8516	7685	9316
85°	6708	6701	8598



TEST NUMBER: P#

CATALOG NUMBER: VT4S-LD5-15-PCF-L835-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.8	3.3
10°-20°	1246.7	9.4
20°-30°	1851.7	13.9
30°-40°	2167.2	16.3
40°-50°	2177.9	16.4
50°-60°	1930.9	14.5
60°-70°	1498.1	11.3
70°-80°	977.2	7.4
80°-90°	510.4	3.8
90°-100°	244.1	1.8
100°-110°	127.1	1.0
110°-120°	69.2	0.5
120°-130°	32.6	0.2
130°-140°	10.0	0.1
140°-150°	1.4	0.0
150°-160°	0.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	3538.3	26.6
0°-40°	5705.5	42.9
0°-60°	9814.3	73.9
0°-90°	12799.9	96.3
90°-120°	440.4	3.3
90°-150°	484.4	3.6
90°-180°	485.0	3.7
0°-180°	13285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4656	4656	4656	4656	4656	
5°	4614	4620	4636	4647	4652	438
15°	4392	4403	4427	4441	4448	1237
25°	3962	3987	4027	4059	4068	1825
35°	3386	3420	3474	3516	3531	2116
45°	2726	2763	2825	2880	2903	2101
55°	2049	2087	2159	2232	2258	1833
65°	1399	1437	1510	1590	1611	1387
75°	795	832	919	1004	1033	843
85°	291	372	470	552	571	288
90°	188	242	321	383	397	105
95°	163	174	216	261	272	129
105°	120	114	117	119	125	127
115°	81	67	68	64	69	81
125°	49	40	29	30	37	45
135°	26	20	5	6	11	20
145°	7	4	0	0	0	5
155°	2	2	0	0	0	1
165°	2	2	1	0	0	1
175°	3	2	1	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P#

CATALOG NUMBER: VT4S-LD5-15-PCF-L835-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4655.9	4655.9	4655.9	4655.9	4655.9
2.5°	4634.1	4640.1	4652.9	4665.8	4667.8
5°	4614.4	4620.3	4636.1	4647.0	4651.9
7.5°	4580.8	4586.7	4601.5	4616.4	4618.3
10°	4532.3	4540.2	4556.1	4572.9	4575.8
12.5°	4466.1	4478.9	4498.7	4513.5	4517.5
15°	4392.0	4402.8	4426.6	4441.4	4448.3
17.5°	4303.0	4316.8	4341.5	4359.3	4367.2
20°	4203.2	4217.0	4243.7	4274.3	4277.3
22.5°	4090.5	4112.2	4140.9	4170.5	4182.4
25°	3962.0	3986.7	4027.2	4058.8	4067.7
27.5°	3831.5	3855.2	3904.6	3937.2	3944.2
30°	3693.1	3718.8	3771.2	3796.9	3801.8
32.5°	3538.9	3568.5	3624.9	3660.5	3669.4
35°	3385.7	3420.3	3473.6	3516.1	3531.0
37.5°	3223.5	3262.1	3313.5	3367.9	3379.7
40°	3058.5	3099.0	3156.3	3206.7	3216.6
42.5°	2886.5	2930.9	3002.1	3042.6	3061.4
45°	2726.3	2762.9	2825.2	2879.5	2903.3
47.5°	2557.3	2593.9	2659.1	2723.4	2750.0
50°	2376.4	2425.8	2496.0	2558.3	2573.1
52.5°	2216.2	2263.7	2325.0	2394.2	2416.9
55°	2049.2	2086.7	2158.9	2232.1	2257.8
57.5°	1883.1	1923.6	1989.9	2064.0	2102.6
60°	1719.0	1757.6	1828.7	1905.9	1928.6
62.5°	1559.9	1599.4	1663.7	1747.7	1770.4
65°	1398.7	1437.3	1509.5	1590.5	1611.3
67.5°	1242.6	1279.1	1353.3	1439.3	1465.0
70°	1087.4	1134.8	1203.0	1283.1	1306.8
72.5°	941.1	982.6	1060.7	1141.7	1169.4
75°	794.8	832.3	919.3	1004.3	1033.0
77.5°	657.4	705.8	790.8	883.7	906.5
80°	520.9	572.3	673.2	762.1	782.9
82.5°	397.4	463.6	566.4	654.4	667.2
85°	290.6	371.7	469.5	551.6	571.4
87.5°	218.5	297.5	393.4	461.6	479.4
90°	187.8	242.2	321.3	382.6	397.4
92.5°	175.0	201.7	263.9	318.3	328.2
95°	163.1	174.0	216.5	261.0	271.8
97.5°	151.2	155.2	181.9	213.5	222.4
100°	140.4	141.4	153.2	176.0	181.9
102.5°	129.5	126.5	131.5	143.3	148.3
105°	119.6	113.7	116.6	118.6	124.6
107.5°	109.7	100.8	102.8	100.8	103.8
110°	99.8	88.0	90.0	87.0	90.0



TEST NUMBER: P#

CATALOG NUMBER: VT4S-LD5-15-PCF-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	90.0	77.1	79.1	75.1	79.1
115°	81.1	67.2	68.2	64.3	69.2
117.5°	73.1	60.3	57.3	54.4	60.3
120°	64.3	52.4	47.4	45.5	52.4
122.5°	57.3	46.5	37.6	37.6	44.5
125°	49.4	40.5	28.7	29.7	36.6
127.5°	43.5	34.6	20.8	23.7	29.7
130°	37.6	29.7	12.9	17.8	23.7
132.5°	30.6	23.7	7.9	11.9	16.8
135°	25.7	19.8	4.9	5.9	10.9
137.5°	20.8	14.8	2.0	1.0	4.9
140°	15.8	10.9	1.0	0.0	0.0
142.5°	10.9	6.9	0.0	0.0	0.0
145°	6.9	4.0	0.0	0.0	0.0
147.5°	4.0	2.0	0.0	0.0	0.0
150°	2.0	1.0	0.0	0.0	0.0
152.5°	2.0	1.0	0.0	0.0	0.0
155°	2.0	2.0	0.0	0.0	0.0
157.5°	2.0	2.0	1.0	0.0	0.0
160°	2.0	2.0	1.0	0.0	0.0
162.5°	2.0	2.0	1.0	0.0	0.0
165°	2.0	2.0	1.0	0.0	0.0
167.5°	2.0	2.0	1.0	0.0	0.0
170°	2.0	2.0	1.0	0.0	0.0
172.5°	2.0	2.0	1.0	0.0	0.0
175°	3.0	2.0	1.0	0.0	0.0
177.5°	3.0	2.0	1.0	0.0	0.0
180°	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)