

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-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 (G3-1801-511-7)
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-L850-CD2-U
Description: VT4S VAPORTIGHT FIXTURE WITH 5000K LED AND FROSTED POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

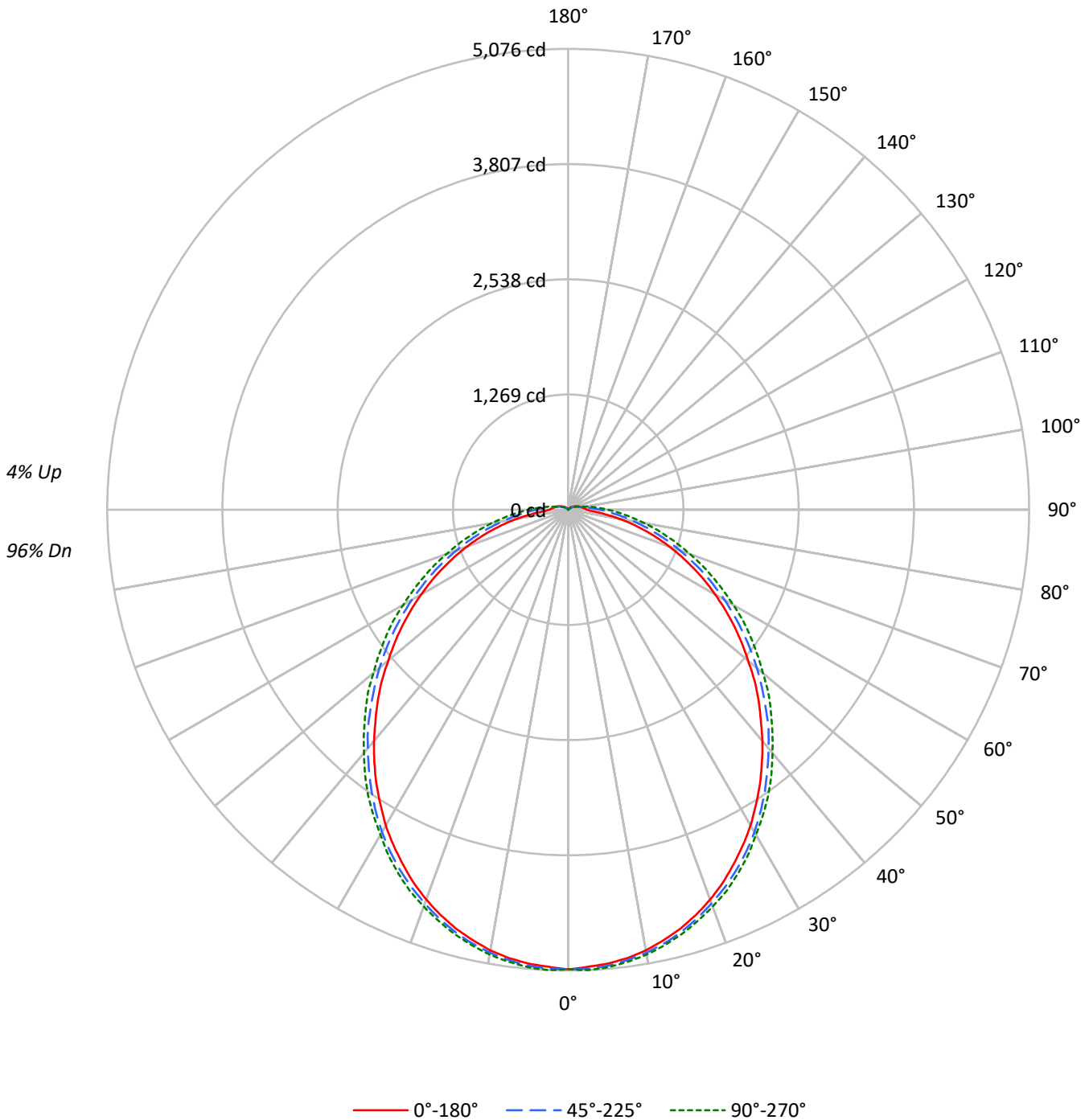
Lumens per Lamp: N/A
Luminaire Lumens: 14446.9 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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



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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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	96	
1	107	102	97	93	104	99	95	91	94	91	88	90	87	85	86	83	81	86	83	81	79	
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	75	71	68	66	
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	66	62	58	55	
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41	
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36	
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32	
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	41	35	30	28	
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27	38	32	27	26	
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	35	29	25	23	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24158	24158	24158
5°	23785	23635	23750
10°	23386	22999	23167
15°	22858	22296	22504
20°	22238	21492	21788
25°	21481	20666	21025
30°	20693	19764	20100
35°	19784	18747	19254
40°	18821	17696	18253
45°	17862	16611	17309
50°	16782	15551	16290
55°	15825	14421	15360
60°	14769	13274	14298
65°	13658	12097	13232
70°	12406	10853	12131
75°	11005	9570	11125
80°	9262	8357	10131
85°	7294	7288	9348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.3	3.3
10°-20°	1355.8	9.4
20°-30°	2013.7	13.9
30°-40°	2356.8	16.3
40°-50°	2368.4	16.4
50°-60°	2099.8	14.5
60°-70°	1629.1	11.3
70°-80°	1062.7	7.4
80°-90°	555.0	3.8
90°-100°	265.5	1.8
100°-110°	138.2	1.0
110°-120°	75.2	0.5
120°-130°	35.5	0.2
130°-140°	10.8	0.1
140°-150°	1.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	3847.8	26.6
0°-40°	6204.6	42.9
0°-60°	10672.7	73.9
0°-90°	13919.5	96.3
90°-120°	478.9	3.3
90°-150°	526.7	3.6
90°-180°	527.0	3.6
0°-180°	14446.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5063	5063	5063	5063	5063	
5°	5018	5024	5042	5054	5059	476
15°	4776	4788	4814	4830	4837	1346
25°	4308	4335	4379	4414	4424	1985
35°	3682	3719	3778	3824	3840	2301
45°	2965	3005	3072	3131	3157	2285
55°	2228	2269	2348	2427	2455	1993
65°	1521	1563	1642	1730	1752	1508
75°	864	905	1000	1092	1123	917
85°	316	404	511	600	621	313
90°	204	263	349	416	432	115
95°	177	189	235	284	296	140
105°	130	124	127	129	135	138
115°	88	73	74	70	75	88
125°	54	44	31	32	40	49
135°	28	22	5	6	12	22
145°	8	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5063.1	5063.1	5063.1	5063.1	5063.1
2.5°	5039.5	5045.9	5059.9	5073.9	5076.0
5°	5018.0	5024.4	5041.6	5053.5	5058.8
7.5°	4981.4	4987.9	5004.0	5020.1	5022.3
10°	4928.8	4937.4	4954.6	4972.8	4976.1
12.5°	4856.7	4870.7	4892.2	4908.3	4912.6
15°	4776.1	4787.9	4813.7	4829.9	4837.4
17.5°	4679.4	4694.4	4721.3	4740.6	4749.2
20°	4570.8	4585.8	4614.9	4648.2	4651.4
22.5°	4448.2	4471.9	4503.1	4535.3	4548.2
25°	4308.5	4335.4	4379.4	4413.8	4423.5
27.5°	4166.6	4192.4	4246.1	4281.6	4289.1
30°	4016.1	4044.1	4101.0	4129.0	4134.4
32.5°	3848.4	3880.7	3941.9	3980.6	3990.3
35°	3681.8	3719.4	3777.5	3823.7	3839.8
37.5°	3505.5	3547.4	3603.3	3662.4	3675.3
40°	3326.0	3370.0	3432.4	3487.2	3498.0
42.5°	3138.9	3187.3	3264.7	3308.8	3329.2
45°	2964.8	3004.6	3072.3	3131.4	3157.2
47.5°	2781.0	2820.7	2891.7	2961.6	2990.6
50°	2584.2	2638.0	2714.3	2782.0	2798.2
52.5°	2410.1	2461.7	2528.3	2603.6	2628.3
55°	2228.4	2269.3	2347.7	2427.3	2455.2
57.5°	2047.8	2091.9	2163.9	2244.5	2286.5
60°	1869.4	1911.3	1988.7	2072.5	2097.3
62.5°	1696.3	1739.3	1809.2	1900.6	1925.3
65°	1521.1	1563.0	1641.5	1729.6	1752.2
67.5°	1351.2	1391.0	1471.6	1565.2	1593.1
70°	1182.5	1234.1	1308.2	1395.3	1421.1
72.5°	1023.4	1068.5	1153.4	1241.6	1271.7
75°	864.3	905.1	999.7	1092.2	1123.3
77.5°	714.9	767.5	860.0	961.0	985.8
80°	566.5	622.4	732.1	828.8	851.4
82.5°	432.1	504.2	616.0	711.6	725.6
85°	316.0	404.2	510.6	599.8	621.3
87.5°	237.6	323.6	427.8	502.0	521.4
90°	204.2	263.4	349.4	416.0	432.1
92.5°	190.3	219.3	287.0	346.1	356.9
95°	177.4	189.2	235.4	283.8	295.6
97.5°	164.5	168.8	197.8	232.2	241.9
100°	152.6	153.7	166.6	191.3	197.8
102.5°	140.8	137.6	143.0	155.9	161.2
105°	130.1	123.6	126.8	129.0	135.4
107.5°	119.3	109.6	111.8	109.6	112.9
110°	108.6	95.7	97.8	94.6	97.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.8	83.8	86.0	81.7	86.0
115°	88.1	73.1	74.2	69.9	75.2
117.5°	79.5	65.6	62.3	59.1	65.6
120°	69.9	57.0	51.6	49.4	57.0
122.5°	62.3	50.5	40.8	40.8	48.4
125°	53.7	44.1	31.2	32.2	39.8
127.5°	47.3	37.6	22.6	25.8	32.2
130°	40.8	32.2	14.0	19.3	25.8
132.5°	33.3	25.8	8.6	12.9	18.3
135°	27.9	21.5	5.4	6.4	11.8
137.5°	22.6	16.1	2.1	1.1	5.4
140°	17.2	11.8	1.1	0.0	0.0
142.5°	11.8	7.5	0.0	0.0	0.0
145°	7.5	4.3	0.0	0.0	0.0
147.5°	4.3	2.1	0.0	0.0	0.0
150°	2.1	1.1	0.0	0.0	0.0
152.5°	2.1	1.1	0.0	0.0	0.0
155°	2.1	2.1	0.0	0.0	0.0
157.5°	2.1	2.1	1.1	0.0	0.0
160°	2.1	2.1	1.1	0.0	0.0
162.5°	2.1	2.1	1.1	0.0	0.0
165°	2.1	2.1	1.1	0.0	0.0
167.5°	2.1	2.1	1.1	0.0	0.0
170°	2.1	2.1	1.1	0.0	0.0
172.5°	2.1	2.1	1.1	0.0	0.0
175°	3.2	2.1	1.1	0.0	0.0
177.5°	3.2	2.1	1.1	0.0	0.0
180°	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)