

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-PC-L840-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 (G3-1801-511-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT4S-LD5-18-PC-L840-CD2-U
Description: VT4S VAPORTIGHT FIXTURE WITH 4000K LED AND CLEAR POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

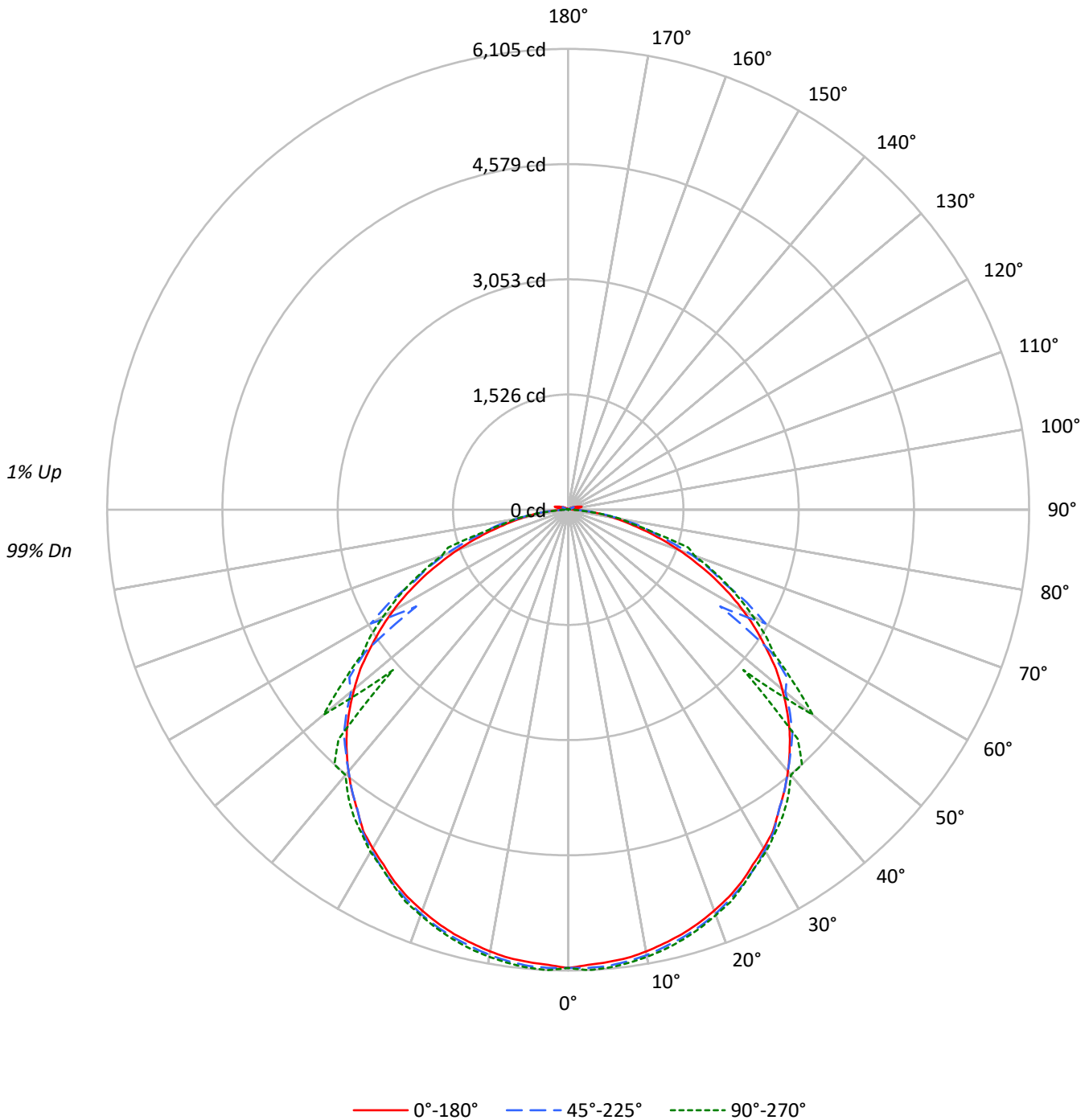
Lumens per Lamp: N/A
Luminaire Lumens: 17864.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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	85	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	52	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	40	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	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28966	28966	28966
5°	28514	28442	28601
10°	28198	27809	28001
15°	27862	27169	27409
20°	27495	26535	26773
25°	27124	25847	26080
30°	26682	25111	25453
35°	26129	24127	24849
40°	25616	23325	23944
45°	24990	22703	23576
50°	24029	21512	24619
55°	22740	20137	20823
60°	21166	20132	19271
65°	19093	16583	17362
70°	16397	14330	15182
75°	13044	11026	11645
80°	9971	7847	8293
85°	6352	4012	3513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.2	3.2
10°-20°	1655.6	9.3
20°-30°	2521.3	14.1
30°-40°	3067.7	17.2
40°-50°	3195.2	17.9
50°-60°	2920.4	16.3
60°-70°	2223.9	12.4
70°-80°	1207.1	6.8
80°-90°	332.4	1.9
90°-100°	42.6	0.2
100°-110°	57.9	0.3
110°-120°	38.6	0.2
120°-130°	14.9	0.1
130°-140°	6.0	0.0
140°-150°	1.9	0.0
150°-160°	1.1	0.0
160°-170°	1.0	0.0
170°-180°	0.3	0.0
0°-30°	4753.1	26.6
0°-40°	7820.8	43.8
0°-60°	13936.3	78.0
0°-90°	17699.8	99.1
90°-120°	139.1	0.8
90°-150°	161.9	0.9
90°-180°	164.0	0.9
0°-180°	17864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6071	6071	6071	6071	6071	
5°	6016	6041	6067	6090	6092	572
15°	5822	5849	5866	5888	5892	1643
25°	5440	5468	5477	5487	5487	2506
35°	4863	4897	4862	4921	4956	3049
45°	4148	4158	4199	4398	4300	3192
55°	3202	3212	3278	3500	3328	2864
65°	2126	2191	2250	2297	2299	2098
75°	1024	1139	1152	1176	1176	1104
85°	275	299	281	234	234	297
90°	55	79	74	68	66	38
95°	44	36	38	21	20	64
105°	158	205	20	21	19	162
115°	82	51	81	11	11	83
125°	37	27	11	2	4	34
135°	16	12	5	2	2	13
145°	5	2	2	2	1	3
155°	2	2	2	2	2	1
165°	4	4	4	4	4	1
175°	4	4	4	4	4	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6070.6	6070.6	6070.6	6070.6	6070.6
2.5°	6036.1	6055.1	6075.4	6096.8	6105.1
5°	6015.8	6040.8	6067.0	6089.7	6092.0
7.5°	5990.8	6015.8	6033.7	6052.7	6058.7
10°	5943.1	5978.9	5990.8	6003.9	6014.6
12.5°	5884.8	5918.1	5928.8	5955.0	5961.0
15°	5821.6	5849.0	5865.7	5888.3	5891.9
17.5°	5744.2	5771.6	5790.7	5803.8	5812.1
20°	5651.3	5673.9	5697.7	5707.3	5715.6
22.5°	5554.8	5569.1	5591.7	5607.2	5621.5
25°	5440.4	5467.8	5477.4	5486.9	5486.9
27.5°	5299.9	5340.4	5347.5	5333.2	5345.1
30°	5178.4	5205.8	5210.5	5193.8	5235.5
32.5°	5049.7	5050.9	5065.2	5061.6	5089.0
35°	4862.7	4897.2	4861.5	4921.0	4955.6
37.5°	4703.0	4731.6	4701.9	4792.4	4786.4
40°	4526.7	4554.1	4524.4	4601.8	4588.7
42.5°	4342.1	4365.9	4358.8	4394.5	4581.5
45°	4147.9	4157.5	4199.1	4398.1	4300.4
47.5°	3928.7	3937.1	3981.2	3909.7	3144.9
50°	3700.0	3708.4	3754.8	2954.3	4228.9
52.5°	3468.9	3457.0	3652.4	3972.8	3760.8
55°	3202.1	3211.6	3278.3	3499.9	3328.3
57.5°	2946.0	2967.4	2387.3	3079.4	3096.1
60°	2679.1	2718.4	3016.2	2818.5	2826.8
62.5°	2402.7	2469.5	2667.2	2558.8	2567.1
65°	2126.4	2190.7	2250.3	2296.7	2299.1
67.5°	1832.1	1931.0	2007.3	1989.4	2038.2
70°	1562.9	1517.6	1727.3	1721.4	1778.5
72.5°	1284.2	1395.0	1418.8	1231.8	1668.9
75°	1024.5	1138.8	1151.9	1175.8	1175.8
77.5°	793.4	860.1	959.0	912.5	879.1
80°	609.9	629.0	687.4	708.8	696.9
82.5°	453.9	427.7	474.1	494.4	447.9
85°	275.2	299.0	281.1	233.5	233.5
87.5°	113.2	142.9	126.3	115.6	102.4
90°	54.8	78.6	73.9	67.9	65.5
92.5°	57.2	54.8	39.3	27.4	21.4
95°	44.1	35.7	38.1	21.4	20.3
97.5°	83.4	26.2	26.2	19.1	15.5
100°	154.9	22.6	23.8	19.1	13.1
102.5°	184.6	33.4	23.8	19.1	19.1
105°	158.4	204.9	20.3	21.4	19.1
107.5°	134.6	92.9	15.5	19.1	21.4
110°	113.2	65.5	13.1	17.9	20.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.3	48.8	13.1	13.1	17.9
115°	82.2	51.2	81.0	10.7	10.7
117.5°	69.1	81.0	35.7	8.3	10.7
120°	56.0	46.5	21.4	10.7	7.1
122.5°	44.1	34.5	14.3	3.6	7.1
125°	36.9	27.4	10.7	2.4	3.6
127.5°	29.8	22.6	7.1	2.4	2.4
130°	23.8	21.4	4.8	2.4	2.4
132.5°	20.3	15.5	13.1	2.4	2.4
135°	15.5	11.9	4.8	2.4	2.4
137.5°	11.9	9.5	3.6	2.4	2.4
140°	9.5	7.1	2.4	2.4	1.2
142.5°	7.1	4.8	2.4	2.4	1.2
145°	4.8	2.4	2.4	2.4	1.2
147.5°	3.6	2.4	2.4	2.4	2.4
150°	2.4	2.4	2.4	2.4	2.4
152.5°	2.4	2.4	2.4	2.4	2.4
155°	2.4	2.4	2.4	2.4	2.4
157.5°	2.4	2.4	2.4	2.4	2.4
160°	2.4	2.4	2.4	2.4	2.4
162.5°	3.6	3.6	3.6	3.6	2.4
165°	3.6	3.6	3.6	3.6	3.6
167.5°	3.6	3.6	3.6	3.6	3.6
170°	3.6	3.6	3.6	3.6	3.6
172.5°	3.6	3.6	3.6	3.6	3.6
175°	3.6	3.6	3.6	3.6	3.6
177.5°	3.6	3.6	3.6	3.6	3.6
180°	3.6	3.6	3.6	3.6	3.6

(END OF REPORT)