

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-LD5-12-PCF-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 (G3-1801-511-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT4S-LD5-12-PCF-L840-CD2-U
Description: VT4S VAPORTIGHT FIXTURE WITH 4000K LED AND FROSTED POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

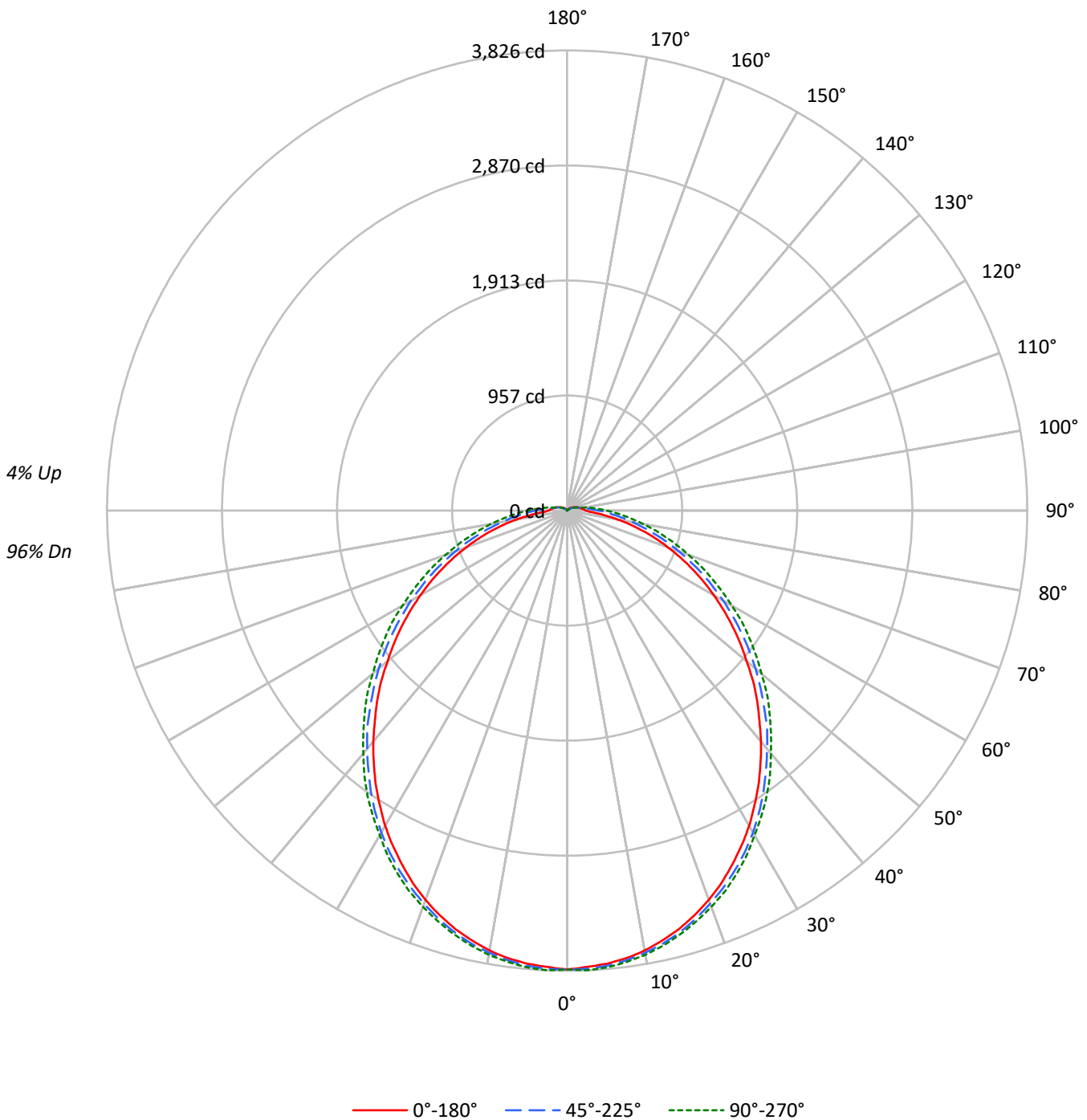
Lumens per Lamp: N/A
Luminaire Lumens: 10888.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 83.9
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°	18207	18207	18207
5°	17925	17812	17900
10°	17625	17333	17459
15°	17227	16804	16960
20°	16760	16198	16420
25°	16189	15575	15846
30°	15595	14895	15149
35°	14910	14129	14511
40°	14184	13336	13756
45°	13462	12518	13045
50°	12648	11720	12277
55°	11927	10868	11577
60°	11131	10004	10775
65°	10294	9117	9973
70°	9350	8180	9143
75°	8294	7212	8384
80°	6981	6298	7635
85°	5498	5492	7046



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.5	3.3
10°-20°	1021.8	9.4
20°-30°	1517.6	13.9
30°-40°	1776.2	16.3
40°-50°	1784.9	16.4
50°-60°	1582.5	14.5
60°-70°	1227.8	11.3
70°-80°	800.9	7.4
80°-90°	418.3	3.8
90°-100°	200.1	1.8
100°-110°	104.2	1.0
110°-120°	56.7	0.5
120°-130°	26.7	0.2
130°-140°	8.2	0.1
140°-150°	1.2	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	2899.9	26.6
0°-40°	4676.1	42.9
0°-60°	8043.5	73.9
0°-90°	10490.4	96.3
90°-120°	360.9	3.3
90°-150°	397.0	3.6
90°-180°	398.0	3.7
0°-180°	10888.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3816	3816	3816	3816	3816	
5°	3782	3787	3800	3808	3813	359
15°	3600	3608	3628	3640	3646	1014
25°	3247	3267	3301	3326	3334	1496
35°	2775	2803	2847	2882	2894	1734
45°	2234	2264	2315	2360	2379	1722
55°	1680	1710	1769	1829	1850	1502
65°	1146	1178	1237	1304	1321	1137
75°	651	682	753	823	847	691
85°	238	305	385	452	468	236
90°	154	198	263	314	326	86
95°	134	143	177	214	223	105
105°	98	93	96	97	102	104
115°	66	55	56	53	57	67
125°	40	33	24	24	30	37
135°	21	16	4	5	9	17
145°	6	3	0	0	0	4
155°	2	2	0	0	0	1
165°	2	2	1	0	0	0
175°	2	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°	3815.8	3815.8	3815.8	3815.8	3815.8
2.5°	3798.0	3802.9	3813.4	3823.9	3825.6
5°	3781.8	3786.7	3799.6	3808.5	3812.6
7.5°	3754.3	3759.1	3771.3	3783.4	3785.0
10°	3714.6	3721.0	3734.0	3747.8	3750.2
12.5°	3660.3	3670.8	3687.0	3699.2	3702.4
15°	3599.5	3608.4	3627.9	3640.0	3645.7
17.5°	3526.6	3537.9	3558.2	3572.8	3579.3
20°	3444.8	3456.1	3478.0	3503.1	3505.5
22.5°	3352.4	3370.2	3393.7	3418.0	3427.8
25°	3247.1	3267.4	3300.6	3326.5	3333.8
27.5°	3140.2	3159.6	3200.1	3226.8	3232.5
30°	3026.7	3047.8	3090.7	3111.8	3115.9
32.5°	2900.4	2924.7	2970.8	3000.0	3007.3
35°	2774.8	2803.1	2846.9	2881.7	2893.9
37.5°	2641.9	2673.5	2715.6	2760.2	2769.9
40°	2506.6	2539.8	2586.8	2628.1	2636.2
42.5°	2365.7	2402.1	2460.4	2493.7	2509.1
45°	2234.4	2264.4	2315.4	2360.0	2379.4
47.5°	2095.9	2125.8	2179.3	2232.0	2253.9
50°	1947.6	1988.1	2045.6	2096.7	2108.8
52.5°	1816.4	1855.3	1905.5	1962.2	1980.8
55°	1679.5	1710.2	1769.4	1829.3	1850.4
57.5°	1543.3	1576.6	1630.8	1691.6	1723.2
60°	1408.9	1440.5	1498.8	1562.0	1580.6
62.5°	1278.4	1310.8	1363.5	1432.4	1451.0
65°	1146.4	1178.0	1237.1	1303.5	1320.6
67.5°	1018.4	1048.3	1109.1	1179.6	1200.7
70°	891.2	930.1	986.0	1051.6	1071.0
72.5°	771.3	805.3	869.3	935.7	958.4
75°	651.4	682.2	753.4	823.1	846.6
77.5°	538.8	578.5	648.1	724.3	742.9
80°	427.0	469.1	551.7	624.6	641.6
82.5°	325.7	380.0	464.2	536.3	546.9
85°	238.2	304.6	384.8	452.1	468.3
87.5°	179.0	243.9	322.4	378.3	392.9
90°	153.9	198.5	263.3	313.5	325.7
92.5°	143.4	165.3	216.3	260.9	269.0
95°	133.7	142.6	177.4	213.9	222.8
97.5°	124.0	127.2	149.1	175.0	182.3
100°	115.0	115.9	125.6	144.2	149.1
102.5°	106.1	103.7	107.8	117.5	121.5
105°	98.0	93.2	95.6	97.2	102.1
107.5°	89.9	82.6	84.3	82.6	85.1
110°	81.8	72.1	73.7	71.3	73.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73.7	63.2	64.8	61.6	64.8
115°	66.4	55.1	55.9	52.7	56.7
117.5°	60.0	49.4	47.0	44.6	49.4
120°	52.7	42.9	38.9	37.3	42.9
122.5°	47.0	38.1	30.8	30.8	36.5
125°	40.5	33.2	23.5	24.3	30.0
127.5°	35.6	28.4	17.0	19.4	24.3
130°	30.8	24.3	10.5	14.6	19.4
132.5°	25.1	19.4	6.5	9.7	13.8
135°	21.1	16.2	4.1	4.9	8.9
137.5°	17.0	12.2	1.6	0.8	4.1
140°	13.0	8.9	0.8	0.0	0.0
142.5°	8.9	5.7	0.0	0.0	0.0
145°	5.7	3.2	0.0	0.0	0.0
147.5°	3.2	1.6	0.0	0.0	0.0
150°	1.6	0.8	0.0	0.0	0.0
152.5°	1.6	0.8	0.0	0.0	0.0
155°	1.6	1.6	0.0	0.0	0.0
157.5°	1.6	1.6	0.8	0.0	0.0
160°	1.6	1.6	0.8	0.0	0.0
162.5°	1.6	1.6	0.8	0.0	0.0
165°	1.6	1.6	0.8	0.0	0.0
167.5°	1.6	1.6	0.8	0.0	0.0
170°	1.6	1.6	0.8	0.0	0.0
172.5°	1.6	1.6	0.8	0.0	0.0
175°	2.4	1.6	0.8	0.0	0.0
177.5°	2.4	1.6	0.8	0.0	0.0
180°	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)