

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-PC-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 (G3-1801-511-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT4S-LD5-12-PC-L850-CD2-U
Description: VT4S VAPORTIGHT FIXTURE WITH 5000K LED AND CLEAR POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

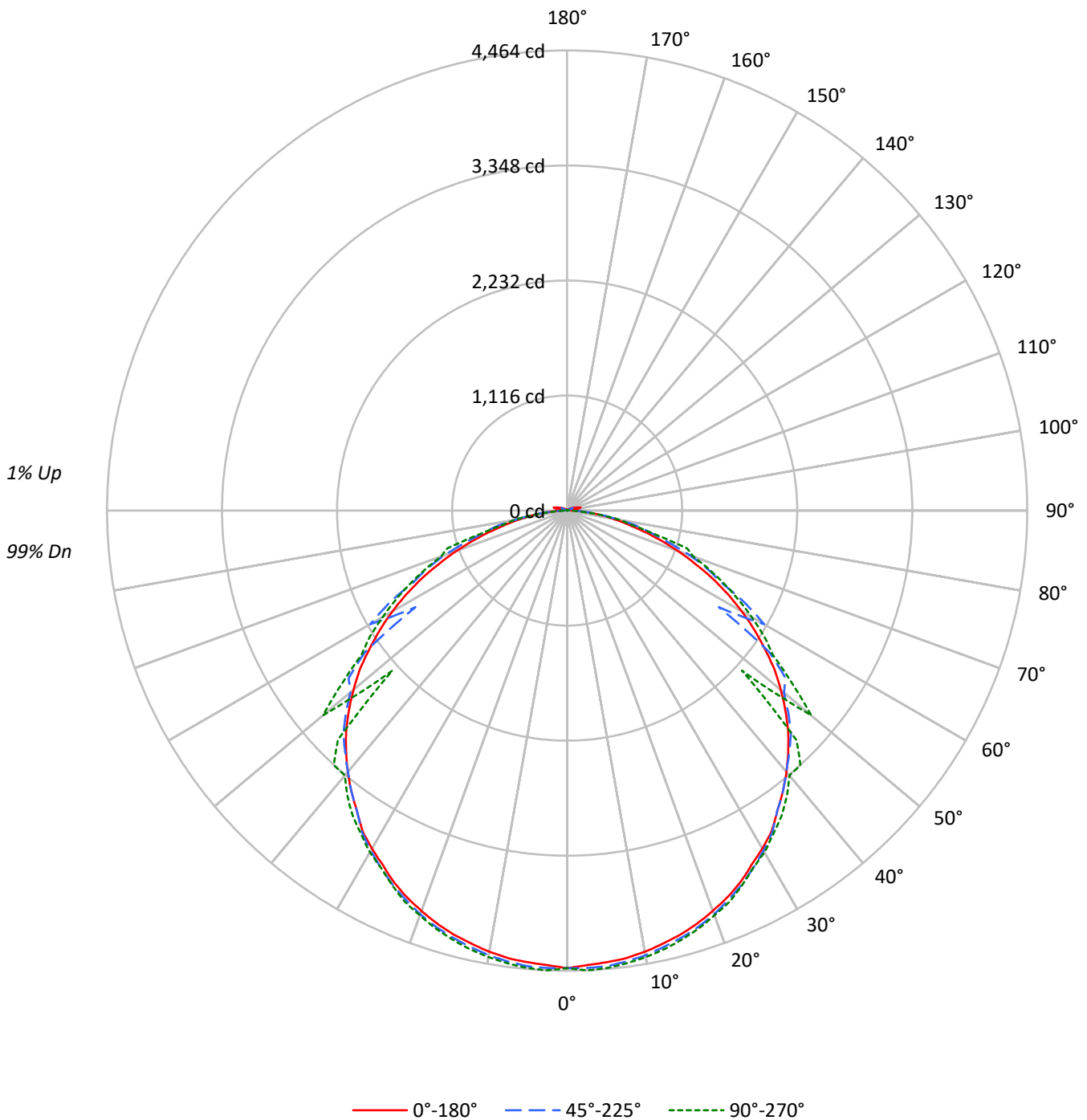
Lumens per Lamp: N/A
Luminaire Lumens: 13060.9 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 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	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°	21178	21178	21178
5°	20848	20795	20911
10°	20617	20332	20473
15°	20371	19864	20040
20°	20102	19401	19575
25°	19832	18897	19068
30°	19508	18360	18610
35°	19104	17640	18168
40°	18729	17054	17506
45°	18271	16599	17238
50°	17568	15728	18000
55°	16625	14723	15225
60°	15476	14720	14090
65°	13960	12124	12695
70°	11988	10477	11100
75°	9537	8062	8513
80°	7290	5736	6063
85°	4644	2933	2568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.3	3.2
10°-20°	1210.4	9.3
20°-30°	1843.4	14.1
30°-40°	2242.9	17.2
40°-50°	2336.1	17.9
50°-60°	2135.2	16.3
60°-70°	1625.9	12.4
70°-80°	882.6	6.8
80°-90°	243.0	1.9
90°-100°	31.1	0.2
100°-110°	42.3	0.3
110°-120°	28.3	0.2
120°-130°	10.9	0.1
130°-140°	4.4	0.0
140°-150°	1.4	0.0
150°-160°	0.8	0.0
160°-170°	0.7	0.0
170°-180°	0.2	0.0
0°-30°	3475.1	26.6
0°-40°	5718.1	43.8
0°-60°	10189.3	78.0
0°-90°	12940.9	99.1
90°-120°	101.7	0.8
90°-150°	118.3	0.9
90°-180°	120.0	0.9
0°-180°	13060.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4438	4438	4438	4438	4438	
5°	4398	4417	4436	4452	4454	418
15°	4256	4276	4289	4305	4308	1202
25°	3978	3998	4005	4012	4012	1832
35°	3555	3580	3554	3598	3623	2229
45°	3033	3040	3070	3216	3144	2334
55°	2341	2348	2397	2559	2434	2094
65°	1555	1602	1645	1679	1681	1534
75°	749	833	842	860	860	807
85°	201	219	206	171	171	217
90°	40	58	54	50	48	28
95°	32	26	28	16	15	46
105°	116	150	15	16	14	118
115°	60	38	59	8	8	60
125°	27	20	8	2	3	25
135°	11	9	4	2	2	9
145°	4	2	2	2	1	3
155°	2	2	2	2	2	1
165°	3	3	3	3	3	1
175°	3	3	3	3	3	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4438.4	4438.4	4438.4	4438.4	4438.4
2.5°	4413.2	4427.1	4441.9	4457.6	4463.7
5°	4398.4	4416.7	4435.8	4452.4	4454.1
7.5°	4380.1	4398.4	4411.4	4425.4	4429.7
10°	4345.2	4371.4	4380.1	4389.7	4397.5
12.5°	4302.6	4326.9	4334.8	4353.9	4358.3
15°	4256.4	4276.4	4288.6	4305.2	4307.8
17.5°	4199.8	4219.8	4233.8	4243.3	4249.4
20°	4131.9	4148.4	4165.8	4172.8	4178.9
22.5°	4061.3	4071.8	4088.3	4099.6	4110.1
25°	3977.7	3997.7	4004.7	4011.7	4011.7
27.5°	3874.9	3904.5	3909.8	3899.3	3908.0
30°	3786.1	3806.1	3809.6	3797.4	3827.9
32.5°	3692.0	3692.9	3703.3	3700.7	3720.8
35°	3555.3	3580.5	3554.4	3597.9	3623.2
37.5°	3438.6	3459.5	3437.7	3503.9	3499.5
40°	3309.7	3329.7	3307.9	3364.5	3355.0
42.5°	3174.7	3192.1	3186.9	3213.0	3349.7
45°	3032.7	3039.7	3070.1	3215.6	3144.2
47.5°	2872.4	2878.5	2910.8	2858.5	2299.3
50°	2705.2	2711.3	2745.3	2160.0	3091.9
52.5°	2536.2	2527.5	2670.4	2904.7	2749.6
55°	2341.1	2348.1	2396.9	2558.9	2433.5
57.5°	2153.9	2169.6	1745.4	2251.4	2263.6
60°	1958.8	1987.5	2205.3	2060.7	2066.8
62.5°	1756.7	1805.5	1950.1	1870.8	1876.9
65°	1554.7	1601.7	1645.2	1679.2	1681.0
67.5°	1339.5	1411.8	1467.6	1454.5	1490.2
70°	1142.7	1109.6	1262.9	1258.5	1300.3
72.5°	938.9	1019.9	1037.3	900.6	1220.2
75°	749.0	832.6	842.2	859.6	859.6
77.5°	580.1	628.8	701.1	667.2	642.8
80°	445.9	459.9	502.5	518.2	509.5
82.5°	331.8	312.7	346.6	361.4	327.5
85°	201.2	218.6	205.5	170.7	170.7
87.5°	82.7	104.5	92.3	84.5	74.9
90°	40.1	57.5	54.0	49.6	47.9
92.5°	41.8	40.1	28.7	20.0	15.7
95°	32.2	26.1	27.9	15.7	14.8
97.5°	61.0	19.2	19.2	13.9	11.3
100°	113.2	16.5	17.4	13.9	9.6
102.5°	135.0	24.4	17.4	13.9	13.9
105°	115.8	149.8	14.8	15.7	13.9
107.5°	98.4	67.9	11.3	13.9	15.7
110°	82.7	47.9	9.6	13.1	14.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.7	35.7	9.6	9.6	13.1
115°	60.1	37.5	59.2	7.8	7.8
117.5°	50.5	59.2	26.1	6.1	7.8
120°	40.9	34.0	15.7	7.8	5.2
122.5°	32.2	25.3	10.5	2.6	5.2
125°	27.0	20.0	7.8	1.7	2.6
127.5°	21.8	16.5	5.2	1.7	1.7
130°	17.4	15.7	3.5	1.7	1.7
132.5°	14.8	11.3	9.6	1.7	1.7
135°	11.3	8.7	3.5	1.7	1.7
137.5°	8.7	7.0	2.6	1.7	1.7
140°	7.0	5.2	1.7	1.7	0.9
142.5°	5.2	3.5	1.7	1.7	0.9
145°	3.5	1.7	1.7	1.7	0.9
147.5°	2.6	1.7	1.7	1.7	1.7
150°	1.7	1.7	1.7	1.7	1.7
152.5°	1.7	1.7	1.7	1.7	1.7
155°	1.7	1.7	1.7	1.7	1.7
157.5°	1.7	1.7	1.7	1.7	1.7
160°	1.7	1.7	1.7	1.7	1.7
162.5°	2.6	2.6	2.6	2.6	1.7
165°	2.6	2.6	2.6	2.6	2.6
167.5°	2.6	2.6	2.6	2.6	2.6
170°	2.6	2.6	2.6	2.6	2.6
172.5°	2.6	2.6	2.6	2.6	2.6
175°	2.6	2.6	2.6	2.6	2.6
177.5°	2.6	2.6	2.6	2.6	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)