

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: **VRVT4S-LD5-12-PC-L840-CD2-U**

Issue Date: 3/3/2020

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: VRVT4S-LD5-12-PC-L840-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 4000K LED AND CLEAR POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Summary

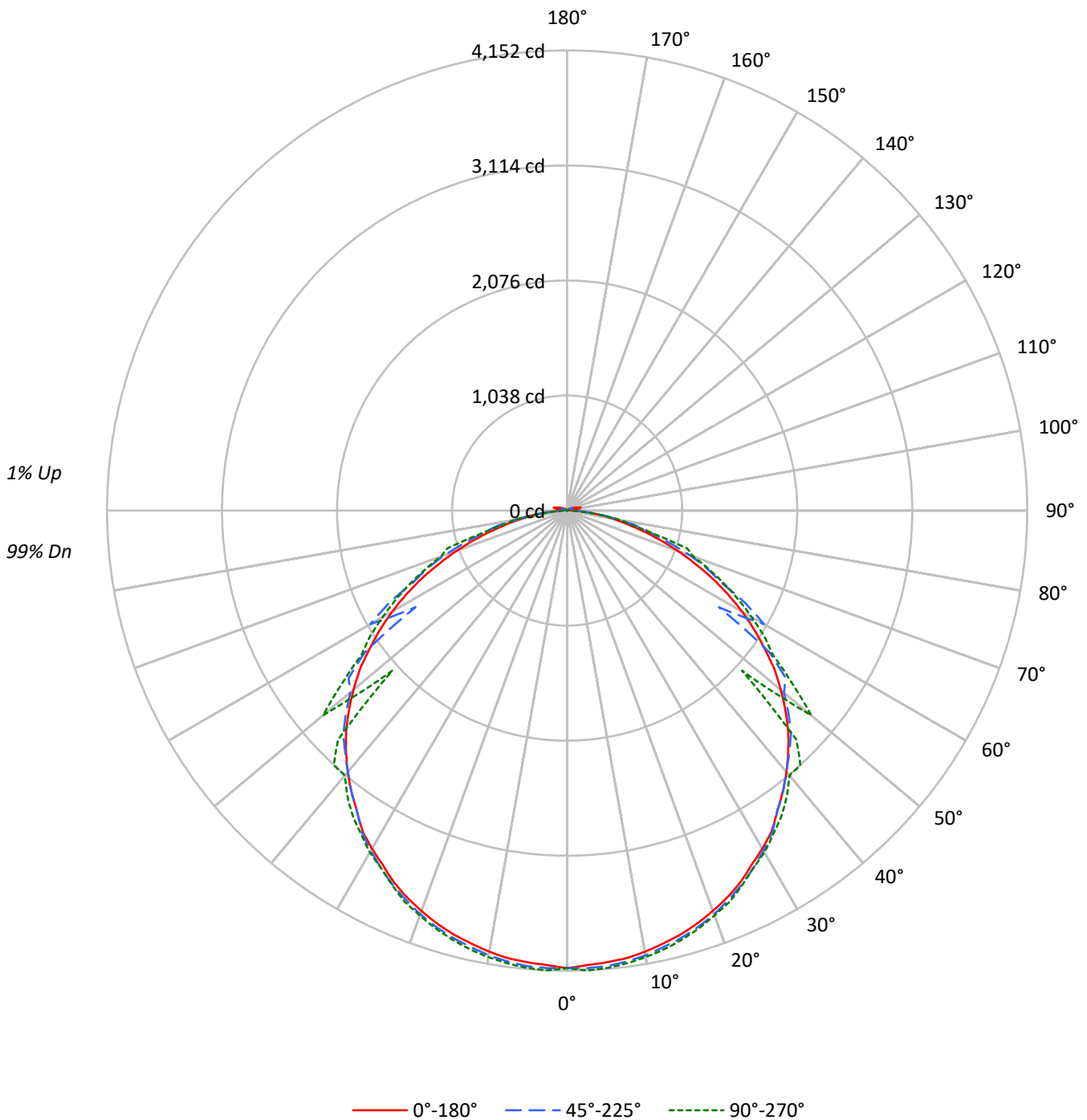
Lumens per Lamp: N/A
Luminaire Lumens: 12149.0 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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	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°	19699	19699	19699
5°	19392	19343	19451
10°	19177	18912	19043
15°	18948	18477	18641
20°	18698	18046	18208
25°	18447	17578	17736
30°	18146	17078	17310
35°	17770	16408	16899
40°	17421	15863	16284
45°	16995	15440	16034
50°	16341	14630	16743
55°	15465	13695	14162
60°	14395	13692	13106
65°	12985	11278	11808
70°	11151	9745	10326
75°	8871	7499	7919
80°	6782	5337	5639
85°	4319	2729	2389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.9	3.2
10°-20°	1125.9	9.3
20°-30°	1714.7	14.1
30°-40°	2086.3	17.2
40°-50°	2173.0	17.9
50°-60°	1986.1	16.3
60°-70°	1512.4	12.4
70°-80°	820.9	6.8
80°-90°	226.1	1.9
90°-100°	29.0	0.2
100°-110°	39.4	0.3
110°-120°	26.3	0.2
120°-130°	10.1	0.1
130°-140°	4.1	0.0
140°-150°	1.3	0.0
150°-160°	0.7	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	3232.5	26.6
0°-40°	5318.8	43.8
0°-60°	9477.8	78.0
0°-90°	12037.3	99.1
90°-120°	94.6	0.8
90°-150°	110.1	0.9
90°-180°	112.0	0.9
0°-180°	12149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4128	4128	4128	4128	4128	
5°	4091	4108	4126	4142	4143	389
15°	3959	3978	3989	4005	4007	1118
25°	3700	3719	3725	3732	3732	1704
35°	3307	3330	3306	3347	3370	2074
45°	2821	2827	2856	2991	2925	2171
55°	2178	2184	2230	2380	2264	1947
65°	1446	1490	1530	1562	1564	1427
75°	697	774	783	800	800	751
85°	187	203	191	159	159	202
90°	37	54	50	46	45	26
95°	30	24	26	15	14	43
105°	108	139	14	15	13	110
115°	56	35	55	7	7	56
125°	25	19	7	2	2	23
135°	10	8	3	2	2	9
145°	3	2	2	2	1	2
155°	2	2	2	2	2	1
165°	2	2	2	2	2	1
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4128.5	4128.5	4128.5	4128.5	4128.5
2.5°	4105.0	4118.0	4131.8	4146.3	4152.0
5°	4091.2	4108.3	4126.1	4141.5	4143.1
7.5°	4074.2	4091.2	4103.4	4116.4	4120.4
10°	4041.8	4066.1	4074.2	4083.1	4090.4
12.5°	4002.1	4024.8	4032.1	4049.9	4054.0
15°	3959.2	3977.8	3989.2	4004.6	4007.0
17.5°	3906.5	3925.2	3938.1	3947.0	3952.7
20°	3843.3	3858.7	3874.9	3881.4	3887.1
22.5°	3777.7	3787.4	3802.8	3813.4	3823.1
25°	3699.9	3718.6	3725.1	3731.5	3731.5
27.5°	3604.3	3631.9	3636.8	3627.0	3635.1
30°	3521.7	3540.3	3543.6	3532.2	3560.6
32.5°	3434.2	3435.0	3444.7	3442.3	3460.9
35°	3307.0	3330.5	3306.2	3346.7	3370.2
37.5°	3198.5	3217.9	3197.7	3259.2	3255.2
40°	3078.6	3097.2	3076.9	3129.6	3120.7
42.5°	2953.0	2969.2	2964.3	2988.6	3115.8
45°	2820.9	2827.4	2855.8	2991.1	2924.6
47.5°	2671.9	2677.5	2707.5	2658.9	2138.8
50°	2516.3	2522.0	2553.6	2009.2	2876.0
52.5°	2359.1	2351.0	2483.9	2701.8	2557.6
55°	2177.7	2184.2	2229.5	2380.2	2263.6
57.5°	2003.5	2018.1	1623.5	2094.2	2105.6
60°	1822.0	1848.8	2051.3	1916.8	1922.5
62.5°	1634.1	1679.4	1813.9	1740.2	1745.9
65°	1446.1	1489.9	1530.4	1562.0	1563.6
67.5°	1246.0	1313.2	1365.1	1352.9	1386.2
70°	1062.9	1032.1	1174.7	1170.7	1209.6
72.5°	873.3	948.7	964.9	837.7	1135.0
75°	696.7	774.5	783.4	799.6	799.6
77.5°	539.6	584.9	652.2	620.6	597.9
80°	414.8	427.8	467.5	482.0	473.9
82.5°	308.7	290.8	322.4	336.2	304.6
85°	187.1	203.3	191.2	158.8	158.8
87.5°	77.0	97.2	85.9	78.6	69.7
90°	37.3	53.5	50.2	46.2	44.6
92.5°	38.9	37.3	26.7	18.6	14.6
95°	30.0	24.3	25.9	14.6	13.8
97.5°	56.7	17.8	17.8	13.0	10.5
100°	105.3	15.4	16.2	13.0	8.9
102.5°	125.6	22.7	16.2	13.0	13.0
105°	107.7	139.3	13.8	14.6	13.0
107.5°	91.5	63.2	10.5	13.0	14.6
110°	77.0	44.6	8.9	12.2	13.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.8	33.2	8.9	8.9	12.2
115°	55.9	34.8	55.1	7.3	7.3
117.5°	47.0	55.1	24.3	5.7	7.3
120°	38.1	31.6	14.6	7.3	4.9
122.5°	30.0	23.5	9.7	2.4	4.9
125°	25.1	18.6	7.3	1.6	2.4
127.5°	20.3	15.4	4.9	1.6	1.6
130°	16.2	14.6	3.2	1.6	1.6
132.5°	13.8	10.5	8.9	1.6	1.6
135°	10.5	8.1	3.2	1.6	1.6
137.5°	8.1	6.5	2.4	1.6	1.6
140°	6.5	4.9	1.6	1.6	0.8
142.5°	4.9	3.2	1.6	1.6	0.8
145°	3.2	1.6	1.6	1.6	0.8
147.5°	2.4	1.6	1.6	1.6	1.6
150°	1.6	1.6	1.6	1.6	1.6
152.5°	1.6	1.6	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	1.6
157.5°	1.6	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6
162.5°	2.4	2.4	2.4	2.4	1.6
165°	2.4	2.4	2.4	2.4	2.4
167.5°	2.4	2.4	2.4	2.4	2.4
170°	2.4	2.4	2.4	2.4	2.4
172.5°	2.4	2.4	2.4	2.4	2.4
175°	2.4	2.4	2.4	2.4	2.4
177.5°	2.4	2.4	2.4	2.4	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)