

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-LD5-9-PCF-L850-CD1-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 (G3-1801-511-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4S-LD5-9-PCF-L850-CD1-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 5000K LED AND FROSTED POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Summary

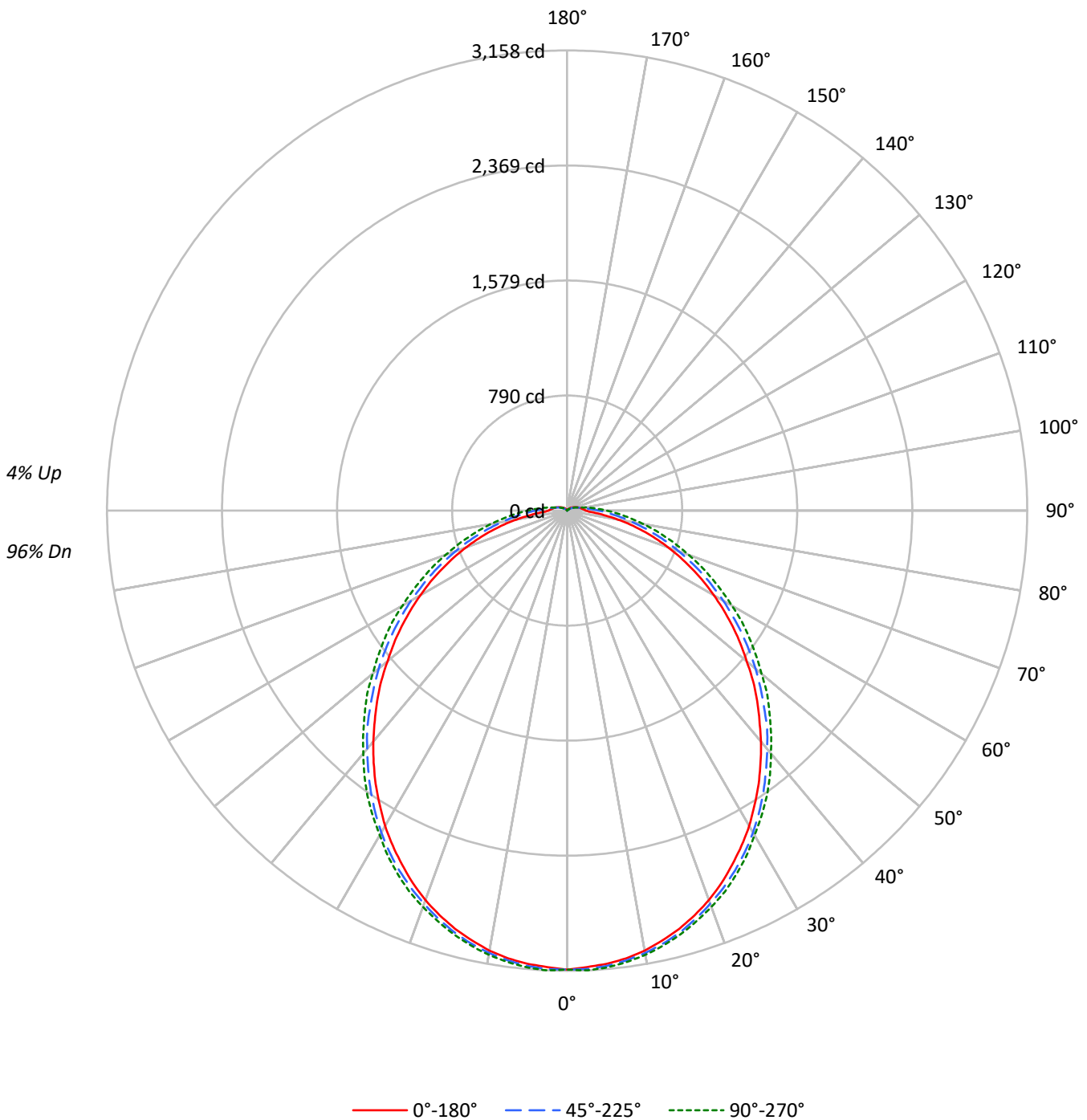
Lumens per Lamp: N/A
Luminaire Lumens: 8989.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 61.5
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	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°	15032	15032	15032
5°	14799	14706	14778
10°	14550	14310	14414
15°	14222	13873	14002
20°	13837	13373	13556
25°	13366	12858	13082
30°	12875	12297	12506
35°	12309	11664	11980
40°	11710	11011	11357
45°	11114	10335	10770
50°	10442	9676	10135
55°	9846	8973	9558
60°	9189	8259	8896
65°	8498	7526	8233
70°	7718	6753	7548
75°	6848	5954	6923
80°	5763	5200	6303
85°	4538	4534	5817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.6	3.3
10°-20°	843.6	9.4
20°-30°	1252.9	13.9
30°-40°	1466.4	16.3
40°-50°	1473.6	16.4
50°-60°	1306.5	14.5
60°-70°	1013.6	11.3
70°-80°	661.2	7.4
80°-90°	345.3	3.8
90°-100°	165.2	1.8
100°-110°	86.0	1.0
110°-120°	46.8	0.5
120°-130°	22.1	0.2
130°-140°	6.8	0.1
140°-150°	1.0	0.0
150°-160°	0.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	2394.1	26.6
0°-40°	3860.5	42.9
0°-60°	6640.6	73.9
0°-90°	8660.8	96.3
90°-120°	298.0	3.3
90°-150°	327.8	3.6
90°-180°	328.0	3.6
0°-180°	8989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3150	3150	3150	3150	3150	
5°	3122	3126	3137	3144	3148	296
15°	2972	2979	2995	3005	3010	837
25°	2681	2698	2725	2746	2752	1235
35°	2291	2314	2350	2379	2389	1432
45°	1845	1869	1912	1948	1964	1421
55°	1386	1412	1461	1510	1528	1240
65°	946	972	1021	1076	1090	938
75°	538	563	622	680	699	571
85°	197	252	318	373	387	195
90°	127	164	217	259	269	71
95°	110	118	146	177	184	87
105°	81	77	79	80	84	86
115°	55	46	46	44	47	55
125°	33	27	19	20	25	31
135°	17	13	3	4	7	14
145°	5	3	0	0	0	3
155°	1	1	0	0	0	1
165°	1	1	1	0	0	0
175°	2	1	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°	3150.3	3150.3	3150.3	3150.3	3150.3
2.5°	3135.6	3139.6	3148.3	3157.0	3158.3
5°	3122.2	3126.2	3136.9	3144.3	3147.6
7.5°	3099.5	3103.5	3113.5	3123.6	3124.9
10°	3066.7	3072.0	3082.8	3094.1	3096.1
12.5°	3021.9	3030.6	3044.0	3054.0	3056.7
15°	2971.7	2979.1	2995.1	3005.2	3009.8
17.5°	2911.5	2920.9	2937.6	2949.6	2955.0
20°	2844.0	2853.3	2871.4	2892.1	2894.1
22.5°	2767.7	2782.4	2801.8	2821.9	2829.9
25°	2680.8	2697.5	2724.9	2746.3	2752.3
27.5°	2592.5	2608.5	2642.0	2664.0	2668.7
30°	2498.8	2516.2	2551.7	2569.1	2572.4
32.5°	2394.5	2414.6	2452.7	2476.8	2482.8
35°	2290.8	2314.2	2350.4	2379.1	2389.1
37.5°	2181.1	2207.2	2242.0	2278.8	2286.8
40°	2069.4	2096.9	2135.7	2169.8	2176.5
42.5°	1953.1	1983.2	2031.3	2058.7	2071.4
45°	1844.7	1869.4	1911.6	1948.4	1964.4
47.5°	1730.3	1755.1	1799.2	1842.7	1860.8
50°	1607.9	1641.4	1688.9	1731.0	1741.0
52.5°	1499.6	1531.7	1573.1	1620.0	1635.3
55°	1386.5	1412.0	1460.8	1510.3	1527.7
57.5°	1274.2	1301.6	1346.4	1396.6	1422.7
60°	1163.1	1189.2	1237.4	1289.6	1304.9
62.5°	1055.5	1082.2	1125.7	1182.5	1197.9
65°	946.4	972.5	1021.3	1076.2	1090.2
67.5°	840.8	865.5	915.7	973.9	991.2
70°	735.7	767.8	814.0	868.2	884.2
72.5°	636.7	664.8	717.7	772.5	791.3
75°	537.8	563.2	622.0	679.6	699.0
77.5°	444.8	477.6	535.1	598.0	613.3
80°	352.5	387.3	455.5	515.7	529.7
82.5°	268.9	313.7	383.3	442.8	451.5
85°	196.6	251.5	317.7	373.2	386.6
87.5°	147.8	201.3	266.2	312.4	324.4
90°	127.1	163.9	217.4	258.8	268.9
92.5°	118.4	136.4	178.6	215.4	222.1
95°	110.4	117.7	146.5	176.6	183.9
97.5°	102.3	105.0	123.1	144.5	150.5
100°	95.0	95.6	103.7	119.1	123.1
102.5°	87.6	85.6	89.0	97.0	100.3
105°	80.9	76.9	78.9	80.3	84.3
107.5°	74.2	68.2	69.6	68.2	70.2
110°	67.6	59.5	60.9	58.9	60.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	60.9	52.2	53.5	50.8	53.5
115°	54.8	45.5	46.2	43.5	46.8
117.5°	49.5	40.8	38.8	36.8	40.8
120°	43.5	35.4	32.1	30.8	35.4
122.5°	38.8	31.4	25.4	25.4	30.1
125°	33.4	27.4	19.4	20.1	24.7
127.5°	29.4	23.4	14.0	16.1	20.1
130°	25.4	20.1	8.7	12.0	16.1
132.5°	20.7	16.1	5.4	8.0	11.4
135°	17.4	13.4	3.3	4.0	7.4
137.5°	14.0	10.0	1.3	0.7	3.3
140°	10.7	7.4	0.7	0.0	0.0
142.5°	7.4	4.7	0.0	0.0	0.0
145°	4.7	2.7	0.0	0.0	0.0
147.5°	2.7	1.3	0.0	0.0	0.0
150°	1.3	0.7	0.0	0.0	0.0
152.5°	1.3	0.7	0.0	0.0	0.0
155°	1.3	1.3	0.0	0.0	0.0
157.5°	1.3	1.3	0.7	0.0	0.0
160°	1.3	1.3	0.7	0.0	0.0
162.5°	1.3	1.3	0.7	0.0	0.0
165°	1.3	1.3	0.7	0.0	0.0
167.5°	1.3	1.3	0.7	0.0	0.0
170°	1.3	1.3	0.7	0.0	0.0
172.5°	1.3	1.3	0.7	0.0	0.0
175°	2.0	1.3	0.7	0.0	0.0
177.5°	2.0	1.3	0.7	0.0	0.0
180°	0.7	0.7	0.7	0.7	0.7

(END OF REPORT)