

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-DR-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 (G3-1801-511-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4S-LD5-9-DR-L850-CD1-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 5000K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

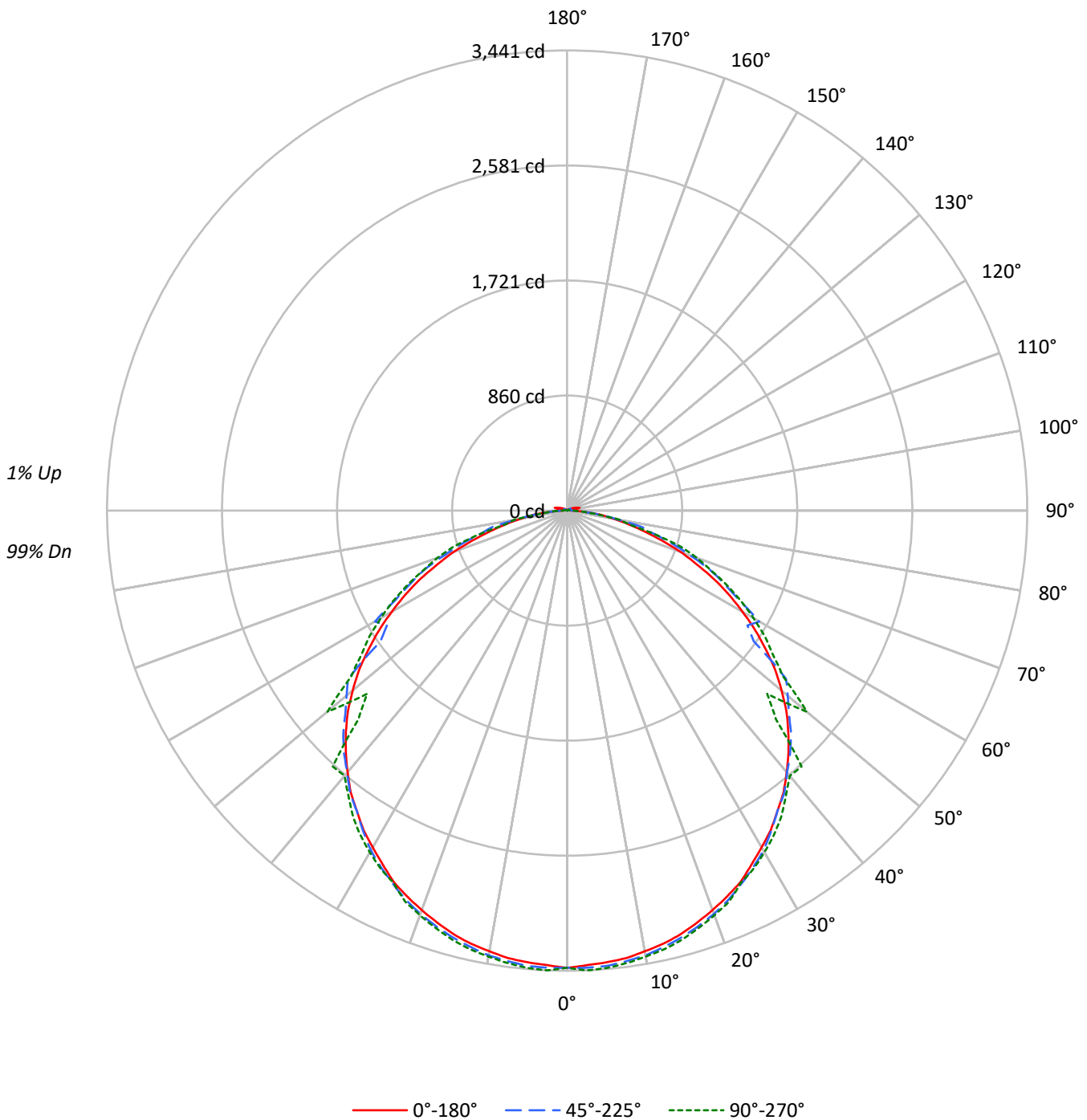
Lumens per Lamp: N/A
Luminaire Lumens: 10099.1 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 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	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	84	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	51	46	57	50	45	55	49	45	42				
6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	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	31	43	36	31	42	35	31	29				
9	56	42	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26				
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16312	16312	16312
5°	16072	16022	16116
10°	15879	15675	15766
15°	15698	15307	15454
20°	15466	14945	15082
25°	15287	14539	14604
30°	14984	14144	14347
35°	14736	13610	14005
40°	14454	13191	13514
45°	14094	12799	12100
50°	13593	12337	13618
55°	12879	10467	11744
60°	11959	11072	10972
65°	10869	9539	9929
70°	9452	8099	8792
75°	7515	6401	6569
80°	5783	4381	4772
85°	3647	2087	2119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.7	3.2
10°-20°	932.5	9.2
20°-30°	1419.4	14.1
30°-40°	1729.2	17.1
40°-50°	1806.0	17.9
50°-60°	1652.2	16.4
60°-70°	1261.8	12.5
70°-80°	688.0	6.8
80°-90°	185.9	1.8
90°-100°	28.5	0.3
100°-110°	34.6	0.3
110°-120°	20.8	0.2
120°-130°	9.9	0.1
130°-140°	3.4	0.0
140°-150°	1.0	0.0
150°-160°	0.5	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	2676.7	26.5
0°-40°	4405.8	43.6
0°-60°	7864.0	77.9
0°-90°	9999.6	99.0
90°-120°	83.9	0.8
90°-150°	98.2	1.0
90°-180°	99.0	1.0
0°-180°	10099.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3419	3419	3419	3419	3419	
5°	3391	3405	3418	3429	3433	322
15°	3280	3293	3305	3317	3322	925
25°	3066	3076	3081	3090	3072	1410
35°	2742	2758	2742	2778	2793	1718
45°	2339	2350	2367	2489	2207	1803
55°	1814	1824	1704	1890	1877	1621
65°	1210	1247	1294	1299	1315	1194
75°	590	635	669	668	663	639
85°	158	159	146	142	141	172
90°	27	45	43	42	41	20
95°	26	24	25	20	20	30
105°	83	110	14	15	15	83
115°	41	20	27	10	11	42
125°	18	15	8	4	5	17
135°	9	6	3	2	2	7
145°	3	2	1	1	1	2
155°	1	1	1	1	1	1
165°	2	2	2	2	1	1
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3418.7	3418.7	3418.7	3418.7	3418.7
2.5°	3402.6	3411.2	3421.9	3437.0	3441.3
5°	3390.7	3404.7	3417.6	3429.4	3432.7
7.5°	3375.7	3392.9	3398.3	3413.3	3413.3
10°	3346.7	3366.0	3376.8	3386.4	3386.4
12.5°	3318.7	3332.7	3342.4	3354.2	3359.6
15°	3280.0	3292.9	3304.7	3316.6	3321.9
17.5°	3230.6	3251.0	3258.5	3268.2	3272.5
20°	3179.0	3198.3	3209.1	3217.7	3219.8
22.5°	3124.1	3139.2	3149.9	3153.2	3165.0
25°	3066.1	3075.7	3081.1	3089.7	3072.5
27.5°	2984.4	3002.6	3010.2	3002.6	3019.8
30°	2908.0	2926.3	2934.9	2937.1	2951.0
32.5°	2832.8	2845.7	2841.4	2857.5	2877.9
35°	2742.5	2757.5	2742.5	2778.0	2793.0
37.5°	2657.5	2665.1	2666.1	2701.6	2686.6
40°	2554.3	2564.0	2558.6	2581.2	2589.8
42.5°	2450.1	2458.7	2468.3	2485.5	2595.2
45°	2339.3	2350.1	2367.3	2488.8	2207.1
47.5°	2224.3	2226.4	2249.0	2063.0	2027.6
50°	2093.1	2092.1	2153.3	1958.8	2339.3
52.5°	1962.0	1960.9	2063.0	2155.5	2035.1
55°	1813.6	1824.4	1704.0	1890.0	1877.1
57.5°	1669.6	1679.2	1597.5	1726.5	1754.5
60°	1513.7	1551.3	1658.8	1608.3	1609.4
62.5°	1365.3	1398.7	1446.0	1462.1	1468.5
65°	1210.5	1247.1	1294.4	1298.7	1314.8
67.5°	1046.0	1098.7	1155.7	1148.2	1163.2
70°	900.9	836.4	976.2	982.6	1029.9
72.5°	737.5	814.9	825.6	688.0	885.8
75°	590.2	635.4	668.7	667.6	663.3
77.5°	467.7	497.8	578.4	520.3	470.9
80°	353.7	362.3	383.8	381.6	401.0
82.5°	266.6	253.7	261.2	258.0	227.9
85°	158.0	159.1	146.2	141.9	140.8
87.5°	65.6	73.1	71.0	67.7	73.1
90°	26.9	45.2	43.0	41.9	40.9
92.5°	30.1	32.3	30.1	25.8	22.6
95°	25.8	23.7	24.7	20.4	20.4
97.5°	35.5	19.4	19.4	17.2	16.1
100°	71.0	17.2	18.3	15.1	15.1
102.5°	94.6	18.3	16.1	15.1	16.1
105°	82.8	109.7	14.0	15.1	15.1
107.5°	69.9	64.5	12.9	14.0	15.1
110°	59.1	39.8	10.8	12.9	14.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.4	28.0	9.7	10.8	12.9
115°	40.9	20.4	26.9	9.7	10.8
117.5°	34.4	21.5	29.0	8.6	9.7
120°	28.0	44.1	15.1	7.5	7.5
122.5°	22.6	20.4	10.8	5.4	6.5
125°	18.3	15.1	7.5	4.3	5.4
127.5°	15.1	11.8	5.4	3.2	4.3
130°	12.9	10.8	3.2	3.2	3.2
132.5°	10.8	8.6	3.2	2.2	3.2
135°	8.6	6.5	3.2	2.2	2.2
137.5°	6.5	5.4	2.2	2.2	2.2
140°	5.4	3.2	1.1	1.1	1.1
142.5°	4.3	3.2	1.1	1.1	1.1
145°	3.2	2.2	1.1	1.1	1.1
147.5°	2.2	1.1	1.1	1.1	1.1
150°	1.1	1.1	1.1	1.1	1.1
152.5°	1.1	1.1	1.1	1.1	1.1
155°	1.1	1.1	1.1	1.1	1.1
157.5°	1.1	1.1	1.1	1.1	1.1
160°	1.1	1.1	1.1	1.1	1.1
162.5°	2.2	2.2	2.2	2.2	1.1
165°	2.2	2.2	2.2	2.2	1.1
167.5°	2.2	2.2	2.2	2.2	1.1
170°	2.2	2.2	2.2	2.2	1.1
172.5°	2.2	2.2	2.2	2.2	2.2
175°	2.2	2.2	2.2	2.2	2.2
177.5°	2.2	2.2	2.2	2.2	2.2
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)