

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-L840-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-L840-CD1-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 4000K LED AND FROSTED POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8362.0 lumens
Efficiency: N/A
Efficacy: 136.0 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

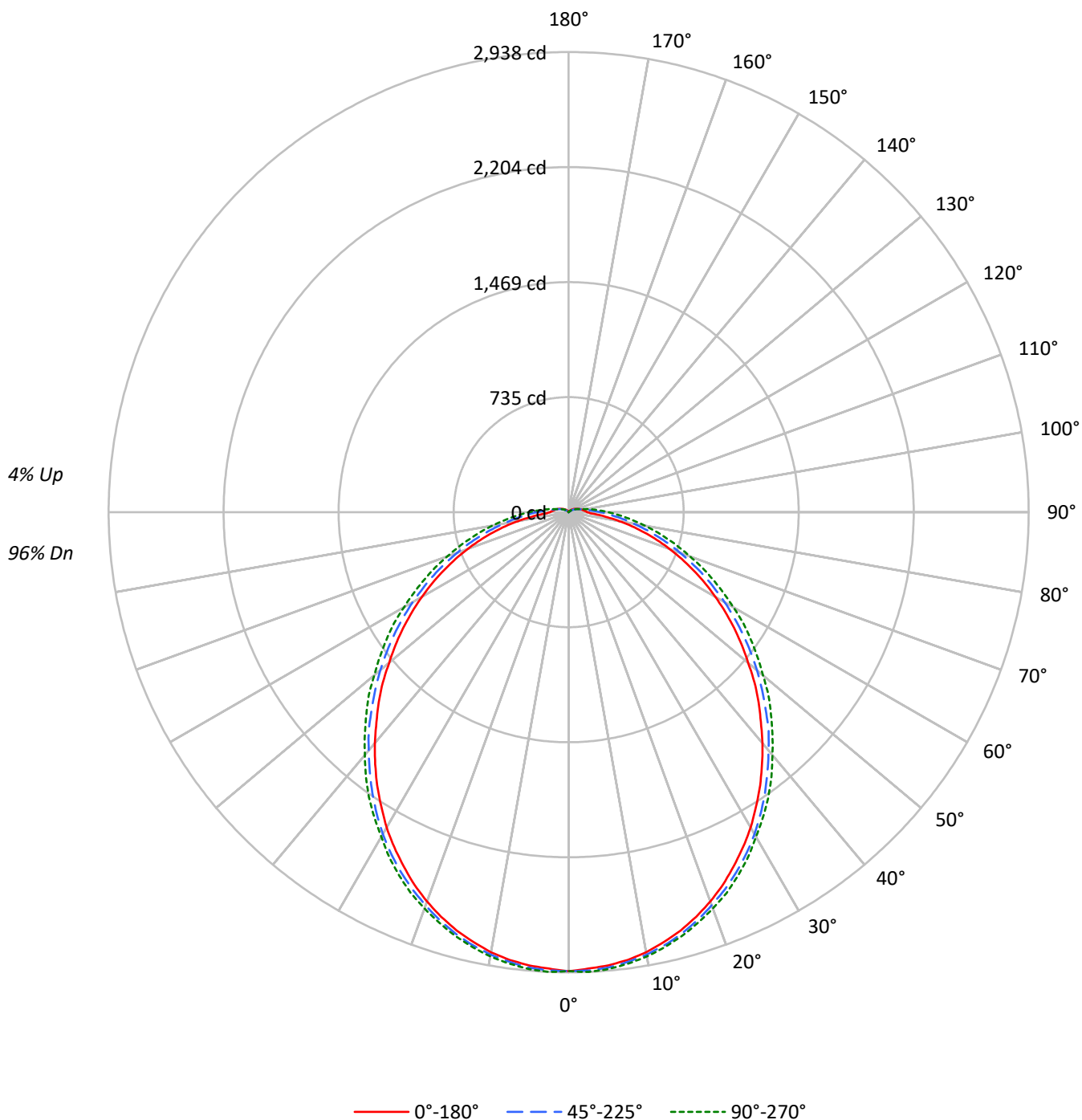
Input Watts (W): 61.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99
1	107	102	97	93	104	99	95	91	94	91	88	90	87	85	86	83	81
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	43	38
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13983	13983	13983
5°	13767	13680	13747
10°	13536	13312	13409
15°	13230	12905	13025
20°	12871	12440	12611
25°	12433	11961	12170
30°	11977	11440	11634
35°	11451	10851	11144
40°	10894	10242	10564
45°	10339	9614	10018
50°	9714	9001	9429
55°	9160	8347	8891
60°	8548	7683	8275
65°	7905	7002	7659
70°	7180	6282	7021
75°	6369	5539	6439
80°	5361	4837	5864
85°	4222	4218	5411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	3.3
10°-20°	784.7	9.4
20°-30°	1165.5	13.9
30°-40°	1364.1	16.3
40°-50°	1370.8	16.4
50°-60°	1215.4	14.5
60°-70°	942.9	11.3
70°-80°	615.1	7.4
80°-90°	321.2	3.8
90°-100°	153.7	1.8
100°-110°	80.0	1.0
110°-120°	43.5	0.5
120°-130°	20.5	0.2
130°-140°	6.3	0.1
140°-150°	0.9	0.0
150°-160°	0.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	2227.1	26.6
0°-40°	3591.2	42.9
0°-60°	6177.4	73.9
0°-90°	8056.7	96.3
90°-120°	277.2	3.3
90°-150°	304.9	3.6
90°-180°	305.0	3.6
0°-180°	8362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2931	2931	2931	2931	2931	
5°	2904	2908	2918	2925	2928	276
15°	2764	2771	2786	2796	2800	779
25°	2494	2509	2535	2555	2560	1149
35°	2131	2153	2186	2213	2222	1332
45°	1716	1739	1778	1812	1827	1322
55°	1290	1314	1359	1405	1421	1154
65°	880	905	950	1001	1014	873
75°	500	524	579	632	650	531
85°	183	234	296	347	360	181
90°	118	152	202	241	250	66
95°	103	110	136	164	171	81
105°	75	72	73	75	78	80
115°	51	42	43	40	44	51
125°	31	26	18	19	23	29
135°	16	12	3	4	7	13
145°	4	2	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°	2930.6	2930.6	2930.6	2930.6	2930.6
2.5°	2916.9	2920.6	2928.7	2936.8	2938.0
5°	2904.4	2908.2	2918.1	2925.0	2928.1
7.5°	2883.3	2887.0	2896.3	2905.7	2906.9
10°	2852.8	2857.8	2867.7	2878.3	2880.2
12.5°	2811.1	2819.2	2831.6	2841.0	2843.5
15°	2764.4	2771.3	2786.2	2795.5	2799.9
17.5°	2708.4	2717.2	2732.7	2743.9	2748.9
20°	2645.6	2654.3	2671.1	2690.4	2692.3
22.5°	2574.7	2588.4	2606.4	2625.1	2632.5
25°	2493.8	2509.3	2534.8	2554.8	2560.4
27.5°	2411.6	2426.6	2457.7	2478.2	2482.6
30°	2324.5	2340.7	2373.7	2389.9	2393.0
32.5°	2227.5	2246.1	2281.6	2304.0	2309.6
35°	2131.0	2152.8	2186.4	2213.2	2222.5
37.5°	2029.0	2053.3	2085.6	2119.8	2127.3
40°	1925.1	1950.6	1986.7	2018.4	2024.6
42.5°	1816.8	1844.8	1889.6	1915.1	1927.0
45°	1716.0	1739.1	1778.2	1812.5	1827.4
47.5°	1609.6	1632.7	1673.7	1714.2	1731.0
50°	1495.8	1526.9	1571.1	1610.3	1619.6
52.5°	1395.0	1424.8	1463.4	1507.0	1521.3
55°	1289.8	1313.5	1358.9	1404.9	1421.1
57.5°	1185.3	1210.8	1252.5	1299.2	1323.4
60°	1082.0	1106.3	1151.1	1199.6	1213.9
62.5°	981.8	1006.7	1047.2	1100.1	1114.4
65°	880.4	904.7	950.1	1001.1	1014.2
67.5°	782.1	805.1	851.8	905.9	922.1
70°	684.4	714.3	757.2	807.6	822.5
72.5°	592.3	618.5	667.6	718.6	736.1
75°	500.2	523.9	578.6	632.2	650.2
77.5°	413.8	444.3	497.8	556.2	570.6
80°	327.9	360.3	423.7	479.7	492.8
82.5°	250.1	291.8	356.5	411.9	420.0
85°	182.9	233.9	295.5	347.2	359.6
87.5°	137.5	187.3	247.6	290.6	301.8
90°	118.2	152.4	202.2	240.8	250.1
92.5°	110.1	126.9	166.1	200.3	206.6
95°	102.7	109.5	136.3	164.3	171.1
97.5°	95.2	97.7	114.5	134.4	140.0
100°	88.4	89.0	96.4	110.8	114.5
102.5°	81.5	79.6	82.8	90.2	93.3
105°	75.3	71.6	73.4	74.7	78.4
107.5°	69.1	63.5	64.7	63.5	65.3
110°	62.8	55.4	56.6	54.8	56.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	56.6	48.5	49.8	47.3	49.8
115°	51.0	42.3	42.9	40.4	43.6
117.5°	46.0	38.0	36.1	34.2	38.0
120°	40.4	33.0	29.9	28.6	33.0
122.5°	36.1	29.2	23.6	23.6	28.0
125°	31.1	25.5	18.0	18.7	23.0
127.5°	27.4	21.8	13.1	14.9	18.7
130°	23.6	18.7	8.1	11.2	14.9
132.5°	19.3	14.9	5.0	7.5	10.6
135°	16.2	12.4	3.1	3.7	6.8
137.5°	13.1	9.3	1.2	0.6	3.1
140°	10.0	6.8	0.6	0.0	0.0
142.5°	6.8	4.4	0.0	0.0	0.0
145°	4.4	2.5	0.0	0.0	0.0
147.5°	2.5	1.2	0.0	0.0	0.0
150°	1.2	0.6	0.0	0.0	0.0
152.5°	1.2	0.6	0.0	0.0	0.0
155°	1.2	1.2	0.0	0.0	0.0
157.5°	1.2	1.2	0.6	0.0	0.0
160°	1.2	1.2	0.6	0.0	0.0
162.5°	1.2	1.2	0.6	0.0	0.0
165°	1.2	1.2	0.6	0.0	0.0
167.5°	1.2	1.2	0.6	0.0	0.0
170°	1.2	1.2	0.6	0.0	0.0
172.5°	1.2	1.2	0.6	0.0	0.0
175°	1.9	1.2	0.6	0.0	0.0
177.5°	1.9	1.2	0.6	0.0	0.0
180°	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)