

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-L835-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-L835-CD1-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND FROSTED POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8266.0 lumens
Efficiency: N/A
Efficacy: 134.4 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

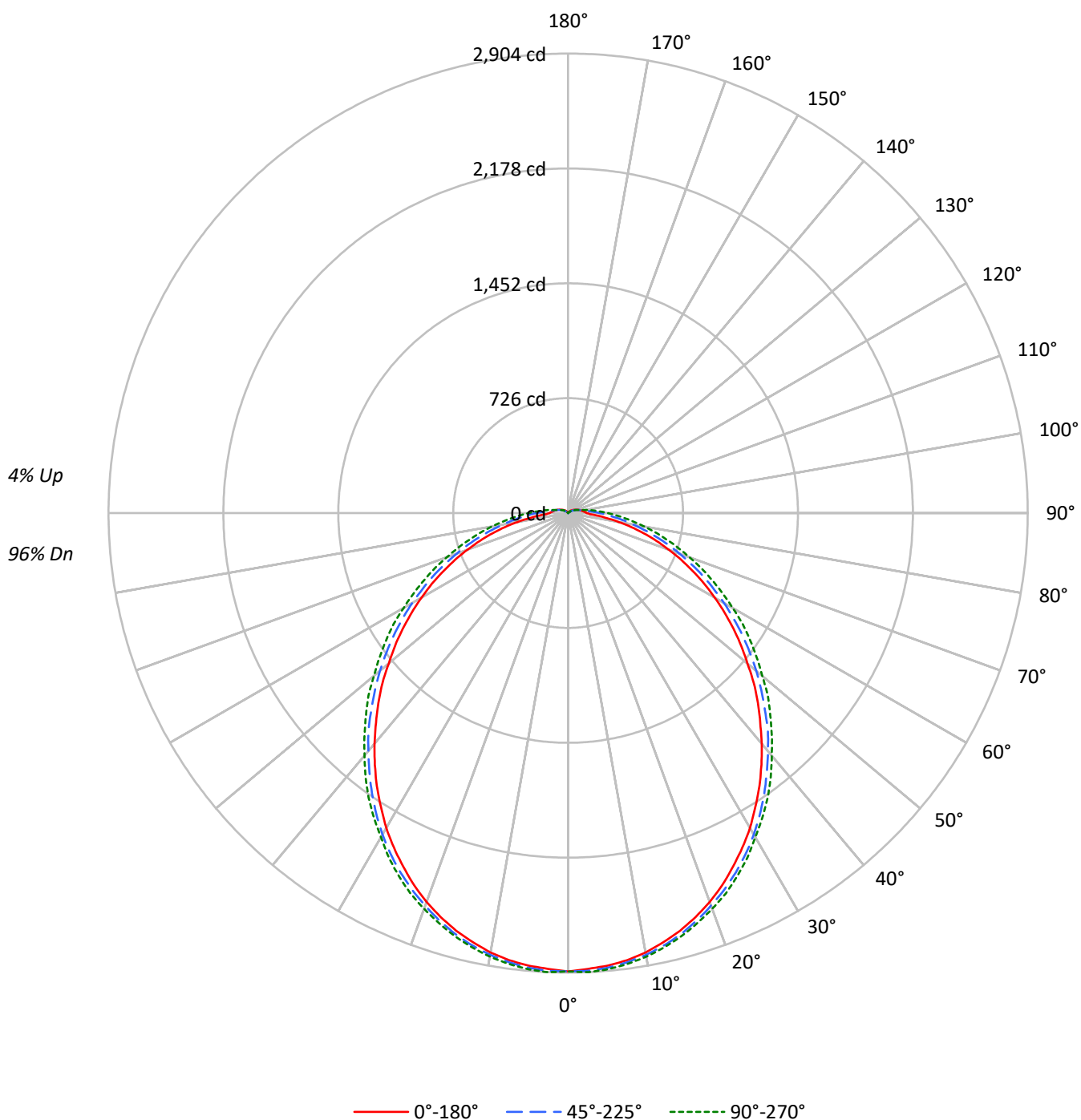
Input Watts (W): 61.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	13822	13822	13822
5°	13609	13523	13589
10°	13380	13159	13255
15°	13078	12757	12876
20°	12723	12297	12466
25°	12291	11824	12030
30°	11840	11308	11500
35°	11319	10726	11017
40°	10769	10125	10443
45°	10220	9504	9903
50°	9602	8897	9320
55°	9054	8251	8789
60°	8450	7595	8181
65°	7815	6921	7571
70°	7098	6210	6941
75°	6296	5475	6365
80°	5299	4782	5796
85°	4173	4170	5349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	3.3
10°-20°	775.7	9.4
20°-30°	1152.2	13.9
30°-40°	1348.5	16.3
40°-50°	1355.1	16.4
50°-60°	1201.4	14.5
60°-70°	932.1	11.3
70°-80°	608.0	7.4
80°-90°	317.6	3.8
90°-100°	151.9	1.8
100°-110°	79.1	1.0
110°-120°	43.0	0.5
120°-130°	20.3	0.2
130°-140°	6.2	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°	2201.5	26.6
0°-40°	3550.0	42.9
0°-60°	6106.5	73.9
0°-90°	7964.2	96.3
90°-120°	274.0	3.3
90°-150°	301.4	3.6
90°-180°	302.0	3.7
0°-180°	8266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2897	2897	2897	2897	2897	
5°	2871	2875	2885	2891	2894	272
15°	2733	2740	2754	2764	2768	770
25°	2465	2480	2506	2525	2531	1136
35°	2107	2128	2161	2188	2197	1317
45°	1696	1719	1758	1792	1806	1307
55°	1275	1298	1343	1389	1405	1140
65°	870	894	939	990	1002	863
75°	494	518	572	625	643	525
85°	181	231	292	343	356	179
90°	117	151	200	238	247	66
95°	102	108	135	162	169	80
105°	74	71	73	74	78	79
115°	50	42	42	40	43	50
125°	31	25	18	18	23	28
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°	2896.9	2896.9	2896.9	2896.9	2896.9
2.5°	2883.4	2887.1	2895.1	2903.1	2904.3
5°	2871.1	2874.8	2884.6	2891.4	2894.5
7.5°	2850.2	2853.9	2863.1	2872.3	2873.5
10°	2820.0	2825.0	2834.8	2845.3	2847.1
12.5°	2778.8	2786.8	2799.1	2808.4	2810.8
15°	2732.7	2739.5	2754.2	2763.5	2767.8
17.5°	2677.3	2686.0	2701.3	2712.4	2717.3
20°	2615.2	2623.8	2640.4	2659.5	2661.4
22.5°	2545.1	2558.6	2576.5	2594.9	2602.3
25°	2465.2	2480.5	2505.7	2525.4	2531.0
27.5°	2384.0	2398.7	2429.5	2449.8	2454.1
30°	2297.9	2313.8	2346.4	2362.4	2365.5
32.5°	2201.9	2220.4	2255.4	2277.6	2283.1
35°	2106.6	2128.1	2161.3	2187.8	2197.0
37.5°	2005.7	2029.7	2061.7	2095.5	2102.9
40°	1903.0	1928.2	1963.9	1995.2	2001.4
42.5°	1796.0	1823.6	1867.9	1893.1	1904.8
45°	1696.3	1719.1	1757.8	1791.7	1806.4
47.5°	1591.2	1613.9	1654.5	1694.5	1711.1
50°	1478.6	1509.4	1553.0	1591.8	1601.0
52.5°	1379.0	1408.5	1446.6	1489.7	1503.8
55°	1275.0	1298.4	1343.3	1388.8	1404.8
57.5°	1171.7	1196.9	1238.1	1284.2	1308.2
60°	1069.6	1093.6	1137.9	1185.8	1200.0
62.5°	970.6	995.2	1035.1	1087.4	1101.6
65°	870.3	894.3	939.2	989.6	1002.5
67.5°	773.1	795.9	842.0	895.5	911.5
70°	676.6	706.1	748.5	798.3	813.1
72.5°	585.5	611.4	660.0	710.4	727.6
75°	494.5	517.9	572.0	624.9	642.7
77.5°	409.0	439.2	492.0	549.9	564.0
80°	324.1	356.1	418.9	474.2	487.1
82.5°	247.3	288.5	352.4	407.2	415.2
85°	180.8	231.3	292.2	343.2	355.5
87.5°	135.9	185.1	244.8	287.2	298.3
90°	116.9	150.7	199.9	238.0	247.3
92.5°	108.9	125.5	164.2	198.0	204.2
95°	101.5	108.3	134.7	162.4	169.1
97.5°	94.1	96.6	113.2	132.9	138.4
100°	87.3	88.0	95.3	109.5	113.2
102.5°	80.6	78.7	81.8	89.2	92.3
105°	74.4	70.7	72.6	73.8	77.5
107.5°	68.3	62.7	64.0	62.7	64.6
110°	62.1	54.7	56.0	54.1	56.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	56.0	48.0	49.2	46.7	49.2
115°	50.4	41.8	42.4	40.0	43.1
117.5°	45.5	37.5	35.7	33.8	37.5
120°	40.0	32.6	29.5	28.3	32.6
122.5°	35.7	28.9	23.4	23.4	27.7
125°	30.8	25.2	17.8	18.5	22.8
127.5°	27.1	21.5	12.9	14.8	18.5
130°	23.4	18.5	8.0	11.1	14.8
132.5°	19.1	14.8	4.9	7.4	10.5
135°	16.0	12.3	3.1	3.7	6.8
137.5°	12.9	9.2	1.2	0.6	3.1
140°	9.8	6.8	0.6	0.0	0.0
142.5°	6.8	4.3	0.0	0.0	0.0
145°	4.3	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°	1.8	1.2	0.6	0.0	0.0
177.5°	1.8	1.2	0.6	0.0	0.0
180°	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)