

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-DRF-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 (G3-1801-511-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4S-LD5-9-DRF-L835-CD1-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND FROSTED ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9115.9 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

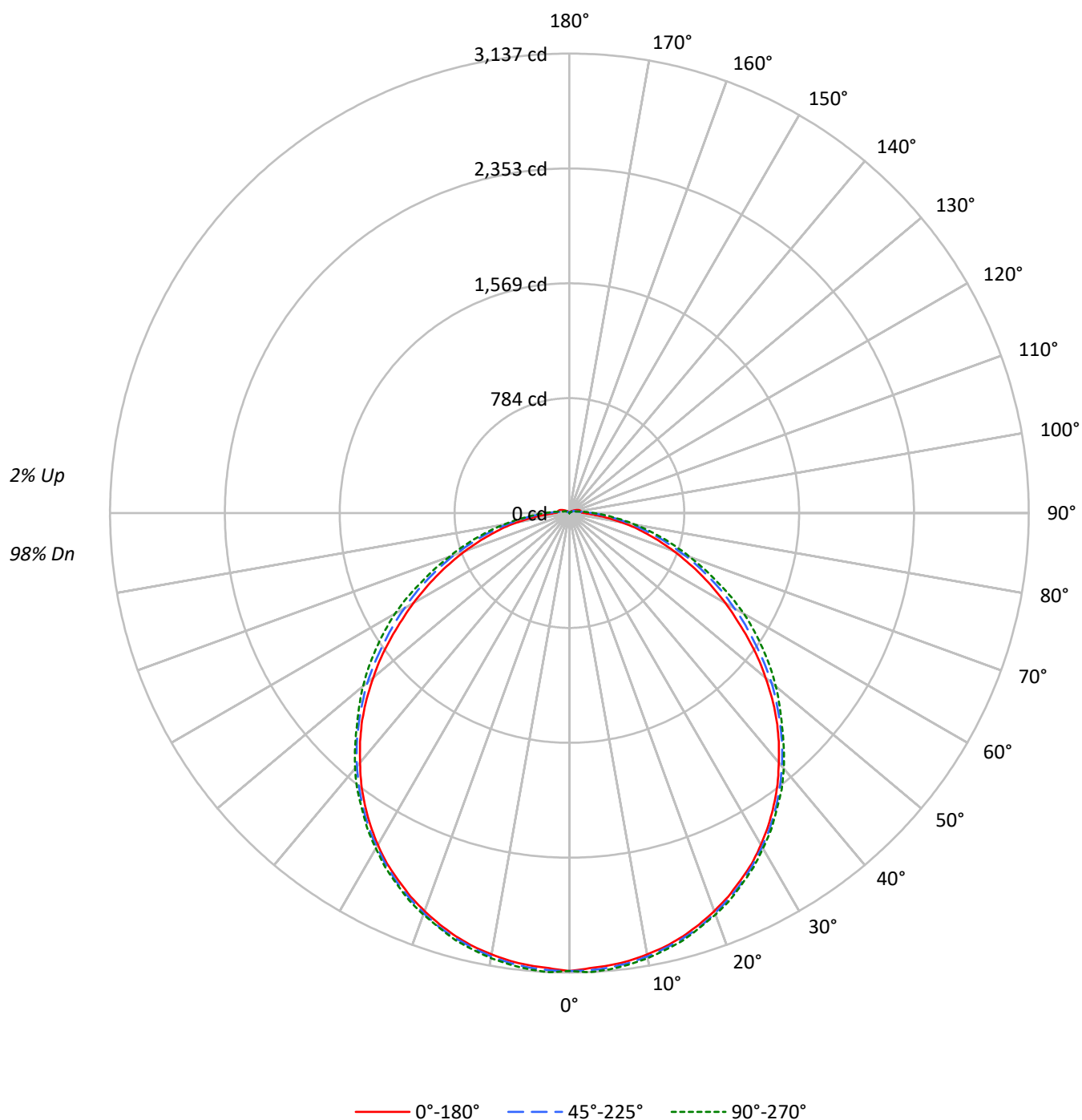
Input Watts (W): 61.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	105	105	105	100	100	100
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83
2	98	89	82	77	95	87	81	75	83	78	73	80	75	71	76	73	69
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	63	59
4	82	69	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39
7	64	51	42	36	62	50	41	36	48	41	35	46	40	35	45	39	34
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14917	14917	14917
5°	14696	14607	14683
10°	14515	14267	14366
15°	14320	13916	14037
20°	14070	13540	13665
25°	13784	13136	13272
30°	13478	12681	12855
35°	13078	12191	12380
40°	12585	11641	11884
45°	12058	11003	11255
50°	11356	10321	10713
55°	10561	9494	10078
60°	9723	8691	9380
65°	8864	7859	8412
70°	7949	6919	7461
75°	6977	5894	6506
80°	5812	4838	5467
85°	4316	3757	4303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	3.2
10°-20°	847.4	9.3
20°-30°	1281.5	14.1
30°-40°	1534.9	16.8
40°-50°	1567.7	17.2
50°-60°	1388.0	15.2
60°-70°	1052.1	11.5
70°-80°	648.5	7.1
80°-90°	286.9	3.1
90°-100°	103.1	1.1
100°-110°	55.3	0.6
110°-120°	32.9	0.4
120°-130°	15.2	0.2
130°-140°	4.7	0.1
140°-150°	0.9	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	2424.8	26.6
0°-40°	3959.8	43.4
0°-60°	6915.5	75.9
0°-90°	8903.0	97.7
90°-120°	191.3	2.1
90°-150°	212.1	2.3
90°-180°	213.0	2.3
0°-180°	9115.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3126	3126	3126	3126	3126	
5°	3100	3107	3116	3124	3128	295
15°	2992	2995	3004	3011	3017	844
25°	2765	2773	2784	2792	2792	1275
35°	2434	2442	2456	2474	2469	1521
45°	2001	2012	2035	2059	2053	1540
55°	1487	1517	1546	1594	1611	1331
65°	987	1013	1066	1108	1114	978
75°	548	574	616	648	657	584
85°	187	224	263	286	286	190
90°	98	124	152	166	165	56
95°	81	81	89	97	97	65
105°	72	62	46	42	42	75
115°	47	38	30	26	27	48
125°	25	20	14	12	15	23
135°	11	9	3	3	5	9
145°	4	2	1	0	0	3
155°	1	1	1	1	0	1
165°	2	2	1	1	1	0
175°	2	2	2	1	1	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3126.3	3126.3	3126.3	3126.3	3126.3
2.5°	3110.9	3114.6	3124.5	3134.3	3137.4
5°	3100.5	3106.6	3115.8	3124.5	3127.5
7.5°	3085.1	3090.0	3098.0	3106.6	3109.1
10°	3059.3	3064.8	3073.4	3081.4	3085.7
12.5°	3030.4	3032.8	3040.8	3050.0	3052.5
15°	2992.2	2994.7	3004.5	3011.3	3017.4
17.5°	2944.9	2947.3	2962.1	2965.2	2965.8
20°	2892.0	2895.7	2907.3	2912.9	2917.2
22.5°	2834.2	2839.1	2848.3	2855.1	2861.2
25°	2764.7	2772.7	2783.7	2792.3	2792.3
27.5°	2697.6	2698.8	2709.3	2718.5	2724.7
30°	2615.8	2617.0	2631.2	2641.6	2644.1
32.5°	2529.1	2534.0	2548.8	2559.8	2562.9
35°	2433.8	2441.8	2456.5	2473.7	2468.8
37.5°	2334.7	2339.0	2360.0	2374.1	2379.6
40°	2224.0	2236.3	2257.9	2273.2	2277.5
42.5°	2115.8	2126.8	2150.2	2165.0	2166.8
45°	2001.4	2012.4	2035.2	2058.6	2053.0
47.5°	1877.8	1895.0	1917.7	1942.3	1946.6
50°	1748.6	1773.8	1801.5	1821.8	1840.2
52.5°	1621.9	1642.2	1674.2	1710.5	1727.7
55°	1487.2	1516.7	1545.6	1594.2	1610.8
57.5°	1353.7	1389.4	1425.1	1478.6	1493.3
60°	1230.7	1259.0	1302.1	1354.3	1375.9
62.5°	1105.2	1137.8	1185.8	1233.8	1248.6
65°	987.2	1013.0	1066.5	1107.7	1113.9
67.5°	868.5	899.2	949.6	992.7	995.2
70°	757.7	785.4	834.0	870.3	874.0
72.5°	650.7	679.0	720.2	757.1	764.5
75°	548.0	573.8	615.7	648.3	656.9
77.5°	457.0	476.0	513.0	549.9	552.9
80°	355.5	377.6	423.8	454.5	459.4
82.5°	270.6	297.1	338.3	366.0	367.2
85°	187.0	223.9	263.2	286.0	286.0
87.5°	129.2	167.9	203.0	218.3	220.2
90°	98.4	123.6	152.5	166.1	165.4
92.5°	85.5	97.2	115.6	126.7	124.9
95°	80.6	80.6	88.6	97.2	96.6
97.5°	78.1	73.2	70.1	75.7	75.0
100°	77.5	68.9	57.8	60.3	60.9
102.5°	75.7	65.2	50.4	49.8	50.4
105°	72.0	61.5	45.5	41.8	42.4
107.5°	67.0	56.6	41.8	36.9	37.5
110°	60.9	50.4	38.1	33.2	33.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	54.7	44.3	34.4	29.5	30.1
115°	47.4	38.1	30.1	25.8	27.1
117.5°	41.2	33.2	26.4	22.1	24.0
120°	35.1	28.9	21.5	18.5	20.9
122.5°	29.5	24.6	17.2	15.4	17.8
125°	25.2	20.3	13.5	12.3	14.8
127.5°	20.9	17.2	9.8	9.8	11.7
130°	17.2	14.1	6.2	7.4	9.2
132.5°	14.1	11.7	4.3	4.9	6.8
135°	11.1	9.2	3.1	3.1	4.9
137.5°	9.2	6.8	1.8	1.2	2.5
140°	6.8	4.9	1.2	0.0	0.6
142.5°	5.5	3.7	0.6	0.0	0.0
145°	3.7	2.5	0.6	0.0	0.0
147.5°	2.5	1.2	0.6	0.6	0.0
150°	1.2	1.2	0.6	0.6	0.0
152.5°	1.2	1.2	0.6	0.6	0.0
155°	1.2	1.2	1.2	0.6	0.0
157.5°	1.2	1.2	1.2	0.6	0.0
160°	1.2	1.2	1.2	0.6	0.6
162.5°	1.8	1.8	1.2	0.6	0.6
165°	1.8	1.8	1.2	0.6	0.6
167.5°	1.8	1.8	1.2	1.2	0.6
170°	1.8	1.8	1.2	0.6	0.6
172.5°	1.8	1.8	1.2	1.2	0.6
175°	1.8	1.8	1.8	1.2	0.6
177.5°	1.8	1.8	1.8	1.2	0.6
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)