

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-LD5-12-DRF-L835-CD2-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-LD5-12-DRF-L835-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND FROSTED ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

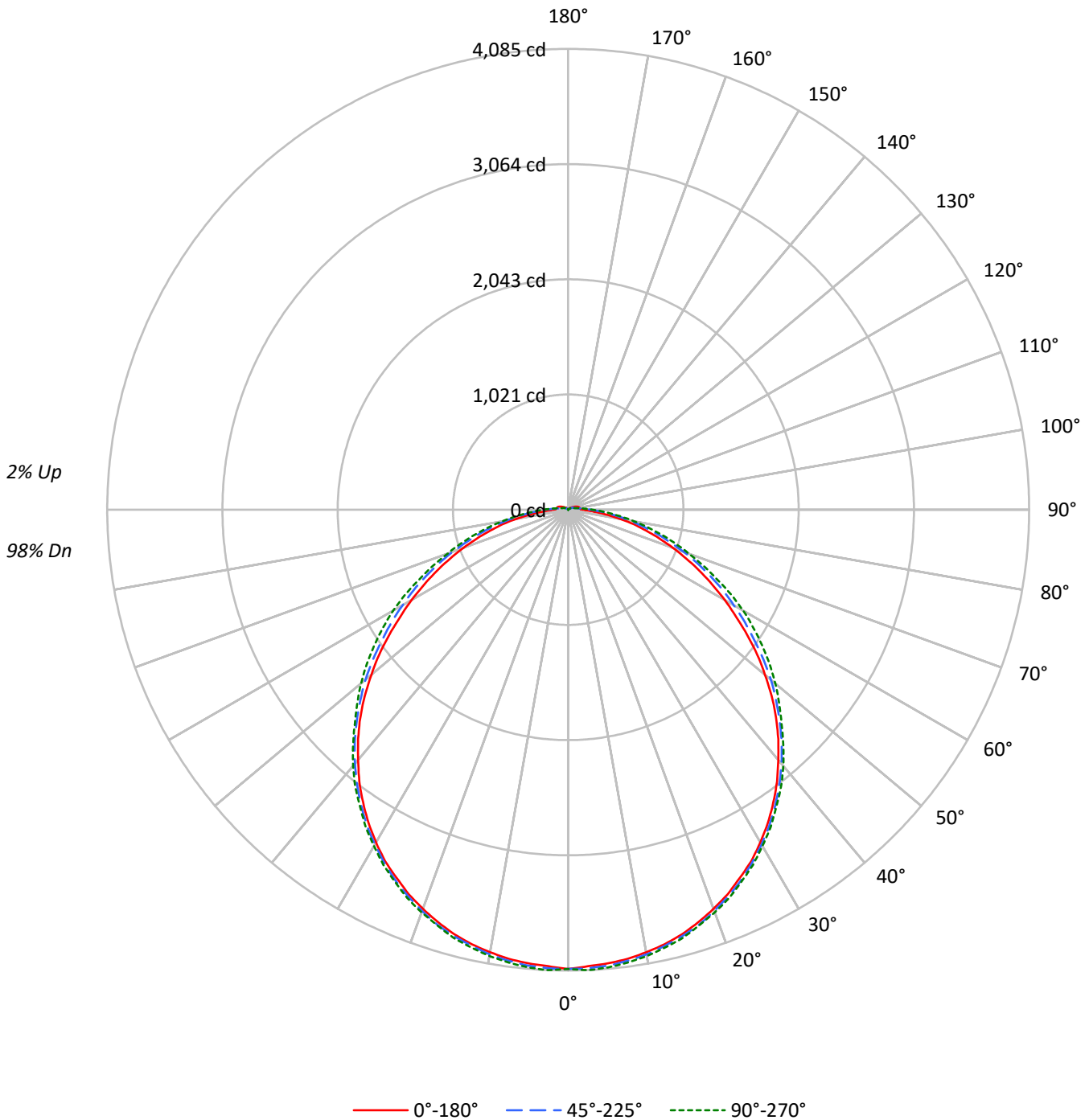
Lumens per Lamp: N/A
Luminaire Lumens: 11870.0 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 83.9
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	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	100	100	100	100	100	100	98		
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	87	85	83	87	85	83	81		
2	98	89	82	77	95	87	81	75	83	78	73	80	75	71	76	73	69	76	73	69	76	73	69	67		
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	63	59	67	63	59	67	63	59	56		
4	82	69	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50	60	55	50	60	55	50	48		
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44	54	48	44	54	48	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	49	43	39	49	43	39	36		
7	64	51	42	36	62	50	41	36	48	41	35	46	40	35	45	39	34	45	39	34	45	39	34	32		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	41	35	31	41	35	31	29		
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	38	32	28	38	32	28	26		
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	35	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19424	19424	19424
5°	19136	19020	19119
10°	18900	18577	18706
15°	18647	18121	18278
20°	18321	17631	17793
25°	17948	17104	17282
30°	17550	16511	16738
35°	17028	15874	16120
40°	16387	15157	15475
45°	15701	14328	14656
50°	14787	13439	13950
55°	13752	12362	13123
60°	12661	11316	12213
65°	11542	10234	10953
70°	10352	9009	9715
75°	9086	7674	8471
80°	7568	6299	7118
85°	5620	4893	5603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.4	3.2
10°-20°	1103.4	9.3
20°-30°	1668.6	14.1
30°-40°	1998.6	16.8
40°-50°	2041.3	17.2
50°-60°	1807.3	15.2
60°-70°	1369.9	11.5
70°-80°	844.5	7.1
80°-90°	373.6	3.1
90°-100°	134.2	1.1
100°-110°	72.0	0.6
110°-120°	42.9	0.4
120°-130°	19.8	0.2
130°-140°	6.1	0.1
140°-150°	1.2	0.0
150°-160°	0.5	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	3157.4	26.6
0°-40°	5156.0	43.4
0°-60°	9004.7	75.9
0°-90°	11592.7	97.7
90°-120°	249.1	2.1
90°-150°	276.2	2.3
90°-180°	277.0	2.3
0°-180°	11870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4071	4071	4071	4071	4071	
5°	4037	4045	4057	4068	4072	384
15°	3896	3899	3912	3921	3929	1099
25°	3600	3610	3625	3636	3636	1660
35°	3169	3179	3199	3221	3215	1981
45°	2606	2620	2650	2680	2673	2006
55°	1936	1975	2013	2076	2098	1733
65°	1285	1319	1389	1442	1450	1274
75°	714	747	802	844	855	760
85°	244	292	343	372	372	248
90°	128	161	199	216	215	73
95°	105	105	115	126	126	85
105°	94	80	59	54	55	98
115°	62	50	39	34	35	62
125°	33	26	18	16	19	30
135°	14	12	4	4	6	12
145°	5	3	1	0	0	3
155°	2	2	2	1	0	1
165°	2	2	2	1	1	1
175°	2	2	2	2	1	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4070.8	4070.8	4070.8	4070.8	4070.8
2.5°	4050.8	4055.6	4068.4	4081.2	4085.2
5°	4037.1	4045.2	4057.2	4068.4	4072.4
7.5°	4017.1	4023.5	4033.9	4045.2	4048.4
10°	3983.5	3990.7	4001.9	4012.3	4017.9
12.5°	3945.8	3949.1	3959.5	3971.5	3974.7
15°	3896.2	3899.4	3912.2	3921.0	3929.0
17.5°	3834.5	3837.7	3857.0	3861.0	3861.8
20°	3765.7	3770.5	3785.7	3792.9	3798.5
22.5°	3690.4	3696.8	3708.8	3717.6	3725.6
25°	3599.9	3610.3	3624.7	3635.9	3635.9
27.5°	3512.6	3514.2	3527.8	3539.8	3547.8
30°	3406.1	3407.7	3426.1	3439.7	3442.9
32.5°	3293.1	3299.6	3318.8	3333.2	3337.2
35°	3169.0	3179.4	3198.6	3221.1	3214.7
37.5°	3040.1	3045.7	3072.9	3091.3	3098.5
40°	2895.9	2911.9	2940.0	2960.0	2965.6
42.5°	2755.0	2769.4	2799.8	2819.0	2821.4
45°	2606.0	2620.4	2650.1	2680.5	2673.3
47.5°	2445.0	2467.5	2497.1	2529.1	2534.7
50°	2276.9	2309.7	2345.7	2372.2	2396.2
52.5°	2111.9	2138.3	2179.9	2227.2	2249.6
55°	1936.5	1974.9	2012.6	2075.8	2097.5
57.5°	1762.7	1809.1	1855.6	1925.3	1944.5
60°	1602.5	1639.4	1695.4	1763.5	1791.5
62.5°	1439.1	1481.6	1544.1	1606.5	1625.7
65°	1285.4	1319.0	1388.7	1442.4	1450.4
67.5°	1130.8	1170.9	1236.5	1292.6	1295.8
70°	986.7	1022.7	1086.0	1133.2	1138.0
72.5°	847.3	884.2	937.8	985.9	995.5
75°	713.6	747.2	801.7	844.1	855.3
77.5°	595.0	619.9	667.9	716.0	720.0
80°	462.9	491.7	551.8	591.8	598.2
82.5°	352.4	386.8	440.5	476.5	478.1
85°	243.5	291.5	342.8	372.4	372.4
87.5°	168.2	218.6	264.3	284.3	286.7
90°	128.1	161.0	198.6	216.2	215.4
92.5°	111.3	126.5	150.6	165.0	162.6
95°	104.9	104.9	115.3	126.5	125.7
97.5°	101.7	95.3	91.3	98.5	97.7
100°	100.9	89.7	75.3	78.5	79.3
102.5°	98.5	84.9	65.7	64.9	65.7
105°	93.7	80.1	59.3	54.5	55.3
107.5°	87.3	73.7	54.5	48.1	48.9
110°	79.3	65.7	49.7	43.2	43.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	71.3	57.7	44.8	38.4	39.2
115°	61.7	49.7	39.2	33.6	35.2
117.5°	53.7	43.2	34.4	28.8	31.2
120°	45.6	37.6	28.0	24.0	27.2
122.5°	38.4	32.0	22.4	20.0	23.2
125°	32.8	26.4	17.6	16.0	19.2
127.5°	27.2	22.4	12.8	12.8	15.2
130°	22.4	18.4	8.0	9.6	12.0
132.5°	18.4	15.2	5.6	6.4	8.8
135°	14.4	12.0	4.0	4.0	6.4
137.5°	12.0	8.8	2.4	1.6	3.2
140°	8.8	6.4	1.6	0.0	0.8
142.5°	7.2	4.8	0.8	0.0	0.0
145°	4.8	3.2	0.8	0.0	0.0
147.5°	3.2	1.6	0.8	0.8	0.0
150°	1.6	1.6	0.8	0.8	0.0
152.5°	1.6	1.6	0.8	0.8	0.0
155°	1.6	1.6	1.6	0.8	0.0
157.5°	1.6	1.6	1.6	0.8	0.0
160°	1.6	1.6	1.6	0.8	0.8
162.5°	2.4	2.4	1.6	0.8	0.8
165°	2.4	2.4	1.6	0.8	0.8
167.5°	2.4	2.4	1.6	1.6	0.8
170°	2.4	2.4	1.6	0.8	0.8
172.5°	2.4	2.4	1.6	1.6	0.8
175°	2.4	2.4	2.4	1.6	0.8
177.5°	2.4	2.4	2.4	1.6	0.8
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)