

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: P236589

Luminaire Tested: **VRVT4LED-LD5-9-DRF-UNV-L835-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-9-DRF-UNV-L835-CD1-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
4 BOARDS WITH FROSTED ACYLIC LENS
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8599.1 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

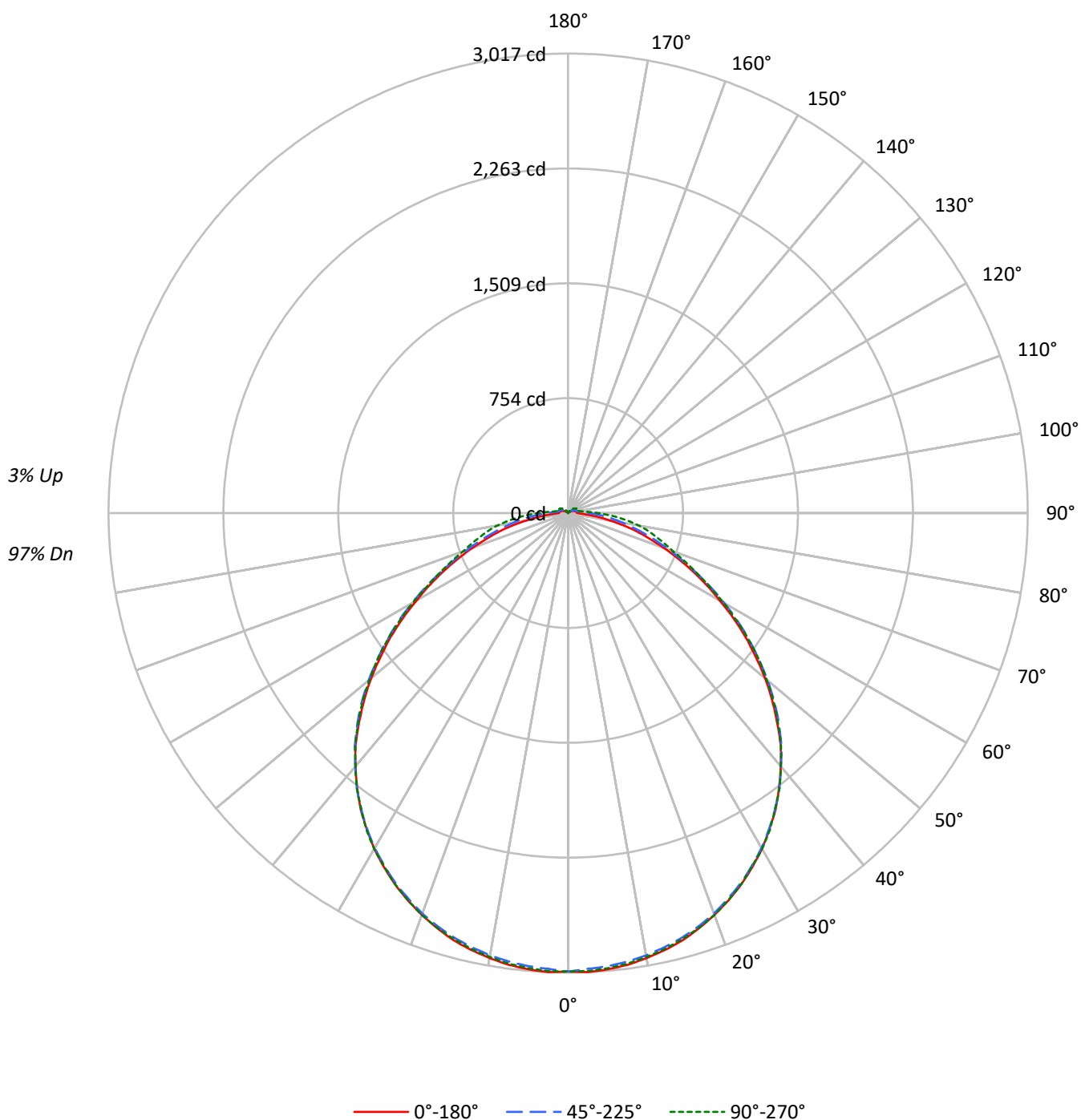
Input Watts (W): 64.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	104	104	104	99	99	99
1	108	103	99	95	105	100	96	93	96	92	89	91	89	86	87	85	83
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	73	70
3	90	79	71	64	87	77	70	64	74	67	62	71	65	61	68	63	59
4	82	70	61	55	80	69	60	54	66	59	53	63	57	52	61	55	51
5	76	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	45
6	70	57	48	41	68	55	47	41	53	46	40	51	45	40	50	44	39
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	39	35
8	60	47	38	33	59	46	38	32	44	37	32	43	36	32	42	36	31
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	38	33	28
10	53	40	32	27	51	39	32	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7540	7540	7540
5°	7522	7373	7387
10°	7467	7228	7224
15°	7411	7082	7055
20°	7323	6923	6883
25°	7230	6741	6683
30°	7116	6542	6468
35°	6967	6308	6202
40°	6757	6034	5913
45°	6477	5717	5566
50°	6137	5314	5155
55°	5720	4850	4695
60°	5208	4336	4162
65°	4715	3776	3641
70°	4192	3251	3234
75°	3671	2781	3042
80°	2988	2367	2872
85°	2238	1954	2499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.9	3.3
10°-20°	817.2	9.5
20°-30°	1238.0	14.4
30°-40°	1483.7	17.3
40°-50°	1504.4	17.5
50°-60°	1288.7	15.0
60°-70°	918.7	10.7
70°-80°	558.0	6.5
80°-90°	259.5	3.0
90°-100°	95.0	1.1
100°-110°	59.3	0.7
110°-120°	45.0	0.5
120°-130°	28.5	0.3
130°-140°	13.3	0.2
140°-150°	3.5	0.0
150°-160°	0.5	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	2340.1	27.2
0°-40°	3823.8	44.5
0°-60°	6617.0	77.0
0°-90°	8353.2	97.1
90°-120°	199.4	2.3
90°-150°	244.7	2.8
90°-180°	246.0	2.9
0°-180°	8599.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3010	3010	3010	3010	3010	
5°	3007	3000	2986	3001	2999	286
15°	2904	2897	2886	2901	2895	819
25°	2690	2687	2681	2694	2689	1239
35°	2375	2377	2370	2378	2369	1482
45°	1939	1954	1957	1955	1948	1495
55°	1423	1440	1448	1452	1444	1269
65°	899	916	927	931	930	893
75°	465	478	515	572	596	493
85°	132	153	233	309	326	140
90°	62	72	135	185	195	36
95°	57	55	83	104	109	46
105°	49	43	58	64	64	52
115°	30	28	47	59	62	31
125°	16	13	32	48	53	15
135°	8	6	13	28	33	6
145°	3	3	1	9	13	2
155°	2	2	1	0	0	1
165°	3	2	2	1	1	1
175°	3	3	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°	3010.1	3010.1	3010.1	3010.1	3010.1
2.5°	3017.0	3010.1	2995.4	3010.1	3009.1
5°	3007.2	3000.3	2986.5	3001.3	2999.3
7.5°	2991.4	2984.6	2969.8	2985.5	2983.6
10°	2966.9	2963.9	2948.2	2962.9	2960.0
12.5°	2938.3	2933.4	2919.7	2934.4	2931.5
15°	2903.9	2897.0	2886.2	2901.0	2895.1
17.5°	2858.7	2855.7	2844.9	2859.7	2855.7
20°	2807.6	2803.6	2797.7	2809.5	2807.6
22.5°	2751.5	2748.5	2740.7	2756.4	2749.5
25°	2689.5	2686.6	2680.7	2693.5	2688.6
27.5°	2619.7	2619.7	2611.9	2623.7	2614.8
30°	2546.0	2544.0	2539.1	2547.9	2546.0
32.5°	2460.4	2468.3	2456.5	2464.4	2464.4
35°	2374.9	2376.8	2369.9	2377.8	2369.0
37.5°	2274.6	2280.5	2277.5	2282.4	2277.5
40°	2171.3	2179.2	2174.3	2176.2	2172.3
42.5°	2065.1	2073.0	2072.0	2071.0	2067.1
45°	1939.2	1954.0	1956.9	1955.0	1948.1
47.5°	1815.3	1835.0	1837.0	1839.9	1830.1
50°	1688.5	1701.2	1709.1	1710.1	1701.2
52.5°	1550.8	1571.4	1579.3	1583.2	1577.3
55°	1423.0	1439.7	1447.5	1452.5	1443.6
57.5°	1287.2	1299.0	1318.7	1319.7	1309.9
60°	1148.6	1170.2	1184.0	1183.0	1176.1
62.5°	1024.7	1037.5	1054.2	1053.2	1046.3
65°	898.8	916.5	927.3	931.3	930.3
67.5°	778.8	795.6	810.3	823.1	828.0
70°	667.7	680.5	703.1	725.7	732.6
72.5°	560.5	576.3	606.7	644.1	660.8
75°	465.1	477.9	515.3	572.3	595.9
77.5°	371.7	382.5	434.7	509.4	535.0
80°	278.3	298.0	361.9	445.5	470.1
82.5°	200.6	218.3	296.0	376.6	400.2
85°	131.8	153.4	233.1	308.8	325.5
87.5°	83.6	102.3	179.0	243.9	256.7
90°	62.0	71.8	134.7	184.9	194.7
92.5°	58.0	60.0	101.3	139.6	145.5
95°	57.0	55.1	82.6	104.2	109.2
97.5°	56.1	51.1	71.8	84.6	86.5
100°	55.1	48.2	65.9	73.8	73.8
102.5°	53.1	45.2	61.0	67.9	67.9
105°	49.2	43.3	58.0	63.9	63.9
107.5°	45.2	40.3	55.1	62.9	62.9
110°	40.3	37.4	53.1	62.0	62.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	35.4	33.4	50.2	61.0	62.9
115°	30.5	28.5	47.2	59.0	62.0
117.5°	26.6	24.6	44.3	57.0	61.0
120°	22.6	19.7	40.3	55.1	60.0
122.5°	18.7	15.7	36.4	51.1	57.0
125°	15.7	12.8	31.5	48.2	53.1
127.5°	13.8	9.8	26.6	43.3	49.2
130°	10.8	8.9	21.6	38.4	44.3
132.5°	8.9	6.9	17.7	33.4	39.3
135°	7.9	5.9	12.8	27.5	33.4
137.5°	5.9	4.9	8.9	22.6	28.5
140°	4.9	3.9	4.9	17.7	22.6
142.5°	3.9	3.0	3.0	12.8	17.7
145°	3.0	3.0	1.0	8.9	12.8
147.5°	3.0	2.0	1.0	4.9	7.9
150°	2.0	2.0	1.0	2.0	3.9
152.5°	2.0	2.0	1.0	0.0	1.0
155°	2.0	2.0	1.0	0.0	0.0
157.5°	2.0	2.0	1.0	0.0	0.0
160°	2.0	2.0	1.0	0.0	0.0
162.5°	3.0	2.0	1.0	1.0	0.0
165°	3.0	2.0	2.0	1.0	1.0
167.5°	3.0	3.0	2.0	1.0	1.0
170°	3.0	2.0	2.0	1.0	1.0
172.5°	3.0	2.0	2.0	1.0	1.0
175°	3.0	3.0	2.0	1.0	1.0
177.5°	3.0	3.0	2.0	1.0	1.0
180°	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)