

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: P236595

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-9-PC-UNV-L835-CD1-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
4 BOARDS WITH CLEAR POLY CARBONATE LENS
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8605.0 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

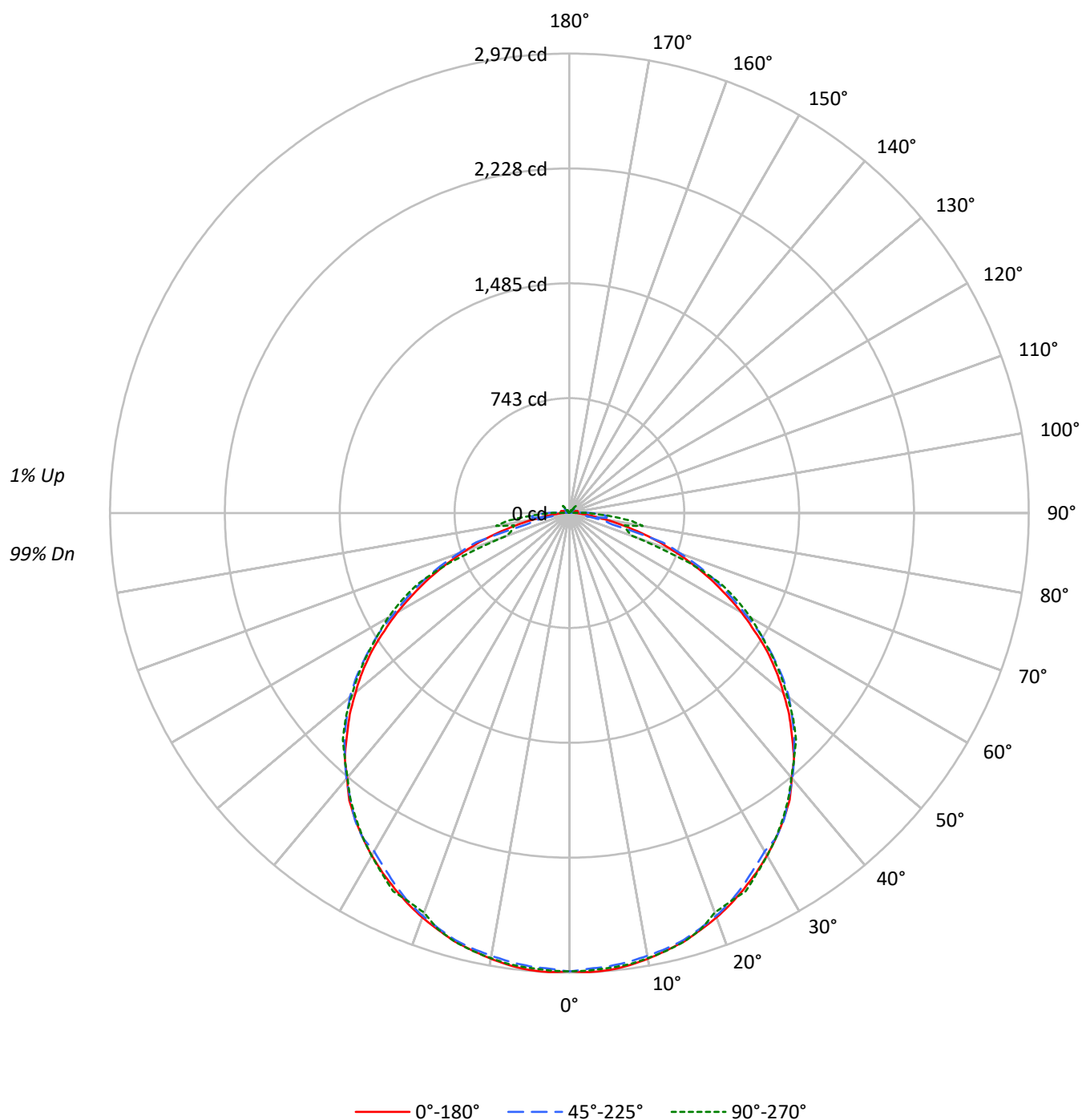
Input Watts (W): 64.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101			99
1	108	104	99	96	106	101	97	94	97	94	91	93	90	88	89	87	85			83
2	99	91	84	78	96	89	82	77	85	80	75	81	77	73	78	75	71			69
3	90	80	72	65	88	78	70	64	75	68	63	72	66	62	69	65	61			58
4	83	71	62	55	80	69	61	55	66	59	54	64	58	53	62	56	52			50
5	76	63	54	47	74	62	53	47	60	52	46	57	51	46	55	50	45			43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40			38
7	65	51	43	36	63	50	42	36	49	41	36	47	41	36	46	40	35			33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31			30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28			27
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26			24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7421	7421	7421
5°	7417	7260	7269
10°	7362	7124	7129
15°	7315	7009	6987
20°	7256	6857	6736
25°	7194	6681	6704
30°	7142	6504	6498
35°	7086	6440	6301
40°	6959	6225	6074
45°	6795	6010	5919
50°	6561	5762	5568
55°	6278	5371	5186
60°	5830	4823	4793
65°	5259	4273	4222
70°	4504	3530	1912
75°	3565	1566	1926
80°	2493	724	2934
85°	1664	2045	2242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	3.3
10°-20°	807.4	9.4
20°-30°	1232.0	14.3
30°-40°	1508.6	17.5
40°-50°	1580.2	18.4
50°-60°	1420.6	16.5
60°-70°	1015.1	11.8
70°-80°	430.5	5.0
80°-90°	219.0	2.5
90°-100°	45.9	0.5
100°-110°	19.8	0.2
110°-120°	14.1	0.2
120°-130°	9.6	0.1
130°-140°	14.8	0.2
140°-150°	5.0	0.1
150°-160°	0.9	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	2320.0	27.0
0°-40°	3828.5	44.5
0°-60°	6829.3	79.4
0°-90°	8493.9	98.7
90°-120°	79.8	0.9
90°-150°	109.3	1.3
90°-180°	111.0	1.3
0°-180°	8605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2962	2962	2962	2962	2962	
5°	2965	2952	2941	2954	2952	282
15°	2866	2859	2856	2869	2867	809
25°	2676	2682	2657	2681	2697	1235
35°	2416	2418	2419	2414	2407	1510
45°	2034	2040	2057	2056	2072	1569
55°	1562	1580	1603	1601	1594	1389
65°	1002	1020	1050	1084	1079	990
75°	452	461	290	188	377	486
85°	98	71	244	312	292	109
90°	40	61	141	119	124	24
95°	39	38	29	20	17	37
105°	51	22	13	11	10	53
115°	28	22	11	7	6	29
125°	14	12	11	5	5	13
135°	7	5	17	58	24	5
145°	3	3	2	18	13	2
155°	2	2	2	1	1	1
165°	3	3	3	2	1	1
175°	3	3	3	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P236595

CATALOG NUMBER: VRVT4LED-LD5-9-PC-UNV-L835-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2962.3	2962.3	2962.3	2962.3	2962.3
2.5°	2970.1	2961.3	2947.6	2960.3	2959.4
5°	2965.2	2952.5	2940.7	2954.5	2951.5
7.5°	2949.6	2935.8	2926.0	2940.7	2942.7
10°	2925.1	2917.2	2905.5	2923.1	2921.1
12.5°	2896.6	2893.7	2883.9	2897.6	2897.6
15°	2866.3	2859.4	2856.5	2869.2	2867.3
17.5°	2824.1	2824.1	2814.3	2832.0	2821.2
20°	2782.0	2778.1	2771.2	2761.4	2747.7
22.5°	2732.0	2733.0	2720.3	2699.7	2717.3
25°	2676.2	2682.0	2656.6	2681.1	2696.7
27.5°	2618.4	2622.3	2588.0	2635.0	2625.2
30°	2555.6	2554.7	2524.3	2558.6	2557.6
32.5°	2487.0	2492.9	2488.0	2488.0	2486.1
35°	2415.5	2417.5	2419.4	2414.5	2406.7
37.5°	2338.1	2331.2	2326.3	2331.2	2326.3
40°	2236.2	2245.0	2243.0	2246.0	2231.3
42.5°	2149.0	2128.4	2147.0	2149.9	2149.9
45°	2034.3	2040.2	2056.9	2055.9	2071.6
47.5°	1925.5	1924.6	1953.0	1966.7	1961.8
50°	1805.0	1837.4	1853.0	1849.1	1837.4
52.5°	1688.4	1715.8	1733.5	1730.5	1720.7
55°	1562.0	1579.6	1603.2	1601.2	1594.3
57.5°	1418.9	1455.2	1470.9	1476.7	1468.9
60°	1285.7	1304.3	1317.0	1340.5	1354.3
62.5°	1140.6	1165.1	1181.8	1219.0	1222.0
65°	1002.5	1020.1	1049.5	1083.8	1078.9
67.5°	859.4	878.0	910.3	947.6	836.9
70°	717.3	732.0	763.4	451.7	433.1
72.5°	588.0	585.0	631.1	383.1	395.9
75°	451.7	460.6	290.1	188.1	377.3
77.5°	331.2	347.9	225.4	373.4	366.5
80°	232.2	251.8	110.7	346.9	480.2
82.5°	153.8	126.4	242.0	412.5	411.6
85°	98.0	70.6	244.0	311.6	292.0
87.5°	65.7	53.9	210.7	205.8	187.2
90°	40.2	60.8	141.1	118.6	123.5
92.5°	31.4	63.7	74.5	57.8	51.9
95°	39.2	38.2	29.4	19.6	16.7
97.5°	51.9	20.6	15.7	12.7	10.8
100°	55.9	18.6	13.7	10.8	9.8
102.5°	55.9	20.6	13.7	10.8	9.8
105°	51.0	22.5	12.7	10.8	9.8
107.5°	45.1	23.5	12.7	9.8	8.8
110°	39.2	24.5	11.8	8.8	8.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.3	23.5	10.8	7.8	6.9
115°	28.4	21.6	10.8	6.9	5.9
117.5°	23.5	19.6	9.8	5.9	5.9
120°	19.6	17.6	9.8	5.9	4.9
122.5°	16.7	15.7	9.8	4.9	4.9
125°	13.7	11.8	10.8	4.9	4.9
127.5°	11.8	8.8	17.6	5.9	4.9
130°	9.8	6.9	39.2	7.8	5.9
132.5°	7.8	5.9	34.3	15.7	8.8
135°	6.9	4.9	16.7	57.8	23.5
137.5°	4.9	3.9	9.8	41.2	62.7
140°	3.9	2.9	10.8	23.5	37.2
142.5°	3.9	2.9	5.9	10.8	15.7
145°	2.9	2.9	2.0	17.6	12.7
147.5°	2.9	2.0	2.0	12.7	21.6
150°	2.0	2.0	2.0	3.9	9.8
152.5°	2.0	2.0	2.0	1.0	2.0
155°	2.0	2.0	2.0	1.0	1.0
157.5°	2.0	2.0	2.9	1.0	1.0
160°	2.0	2.9	2.9	1.0	1.0
162.5°	2.0	2.9	2.9	1.0	1.0
165°	2.9	2.9	2.9	2.0	1.0
167.5°	2.9	2.9	2.9	2.0	1.0
170°	2.9	2.9	2.9	2.0	1.0
172.5°	2.9	2.9	2.9	2.0	2.0
175°	2.9	2.9	2.9	2.0	2.0
177.5°	2.9	2.9	2.9	2.0	2.0
180°	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)