

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: P236606

Luminaire Tested: **VRVT4LED-LD5-15-DRF-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-15-DRF-UNV-L850-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
6 BOARDS WITH FROSTED ACYLIC LENS
Light Source: (336) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15427.0 lumens
Efficiency: N/A
Efficacy: 137.2 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

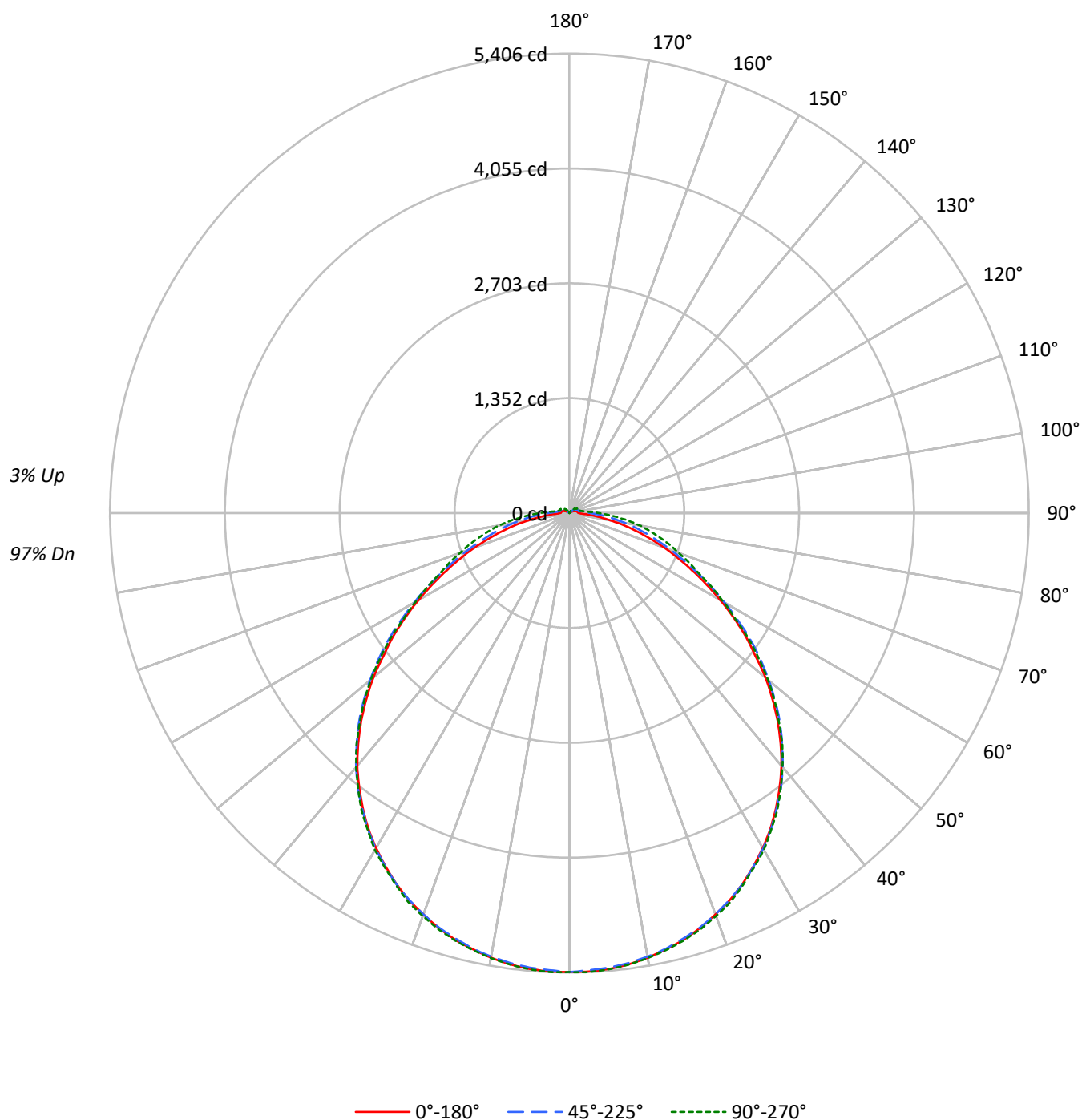
Input Watts (W): 112.42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	118	118	118	118	115	115	115	115		109	109	109		104	104	104		99	99	99
1	108	103	99	95	105	100	96	93		96	92	89		91	88	86		87	85	83
2	98	90	83	77	95	88	81	76		84	78	74		80	76	72		76	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	44
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°	13529	13529	13529
5°	13468	13253	13271
10°	13370	12994	12975
15°	13262	12716	12684
20°	13107	12432	12369
25°	12944	12117	12003
30°	12719	11744	11626
35°	12433	11312	11172
40°	12084	10840	10621
45°	11578	10246	9966
50°	10954	9527	9244
55°	10183	8714	8365
60°	9304	7731	7409
65°	8347	6754	6577
70°	7464	5867	6032
75°	6436	5069	5597
80°	5203	4347	5141
85°	3849	3582	4368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.4	3.3
10°-20°	1466.5	9.5
20°-30°	2222.0	14.4
30°-40°	2660.5	17.2
40°-50°	2692.8	17.5
50°-60°	2300.4	14.9
60°-70°	1647.6	10.7
70°-80°	1012.6	6.6
80°-90°	465.6	3.0
90°-100°	176.7	1.1
100°-110°	110.0	0.7
110°-120°	80.5	0.5
120°-130°	49.3	0.3
130°-140°	22.8	0.1
140°-150°	6.1	0.0
150°-160°	1.1	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	4199.9	27.2
0°-40°	6860.4	44.5
0°-60°	11853.7	76.8
0°-90°	14979.5	97.1
90°-120°	367.2	2.4
90°-150°	445.4	2.9
90°-180°	448.0	2.9
0°-180°	15427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5401	5401	5401	5401	5401	
5°	5384	5385	5368	5385	5388	512
15°	5197	5202	5182	5202	5205	1466
25°	4815	4820	4818	4833	4829	2218
35°	4238	4263	4249	4266	4267	2650
45°	3466	3492	3507	3509	3488	2669
55°	2533	2566	2601	2575	2572	2261
65°	1591	1629	1659	1678	1681	1584
75°	815	851	939	1065	1096	869
85°	227	280	427	545	569	242
90°	108	138	250	330	346	63
95°	100	105	159	194	200	81
105°	85	80	108	121	122	90
115°	53	52	85	106	111	53
125°	27	22	55	82	90	25
135°	12	10	23	48	57	10
145°	6	4	2	15	21	4
155°	4	4	2	1	0	2
165°	4	4	3	1	1	1
175°	5	4	3	2	2	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5400.7	5400.7	5400.7	5400.7	5400.7
2.5°	5399.7	5400.7	5383.0	5399.7	5405.9
5°	5384.1	5385.1	5368.5	5385.1	5388.2
7.5°	5354.9	5356.0	5339.3	5357.0	5359.1
10°	5312.3	5316.5	5299.8	5315.4	5316.5
12.5°	5256.1	5263.4	5248.9	5265.5	5264.5
15°	5196.9	5202.1	5182.3	5202.1	5205.2
17.5°	5116.8	5119.9	5110.5	5130.3	5132.4
20°	5025.3	5029.4	5024.2	5044.0	5045.0
22.5°	4929.6	4931.7	4925.4	4944.1	4953.5
25°	4815.2	4820.4	4818.3	4832.9	4828.7
27.5°	4687.3	4699.7	4690.4	4709.1	4701.8
30°	4551.0	4566.6	4558.3	4574.9	4576.0
32.5°	4402.3	4414.8	4411.7	4423.1	4418.9
35°	4238.0	4262.9	4249.4	4266.1	4267.1
37.5°	4065.3	4088.2	4086.1	4095.5	4085.1
40°	3883.3	3898.9	3906.2	3905.2	3902.1
42.5°	3679.5	3709.7	3707.6	3708.6	3709.7
45°	3466.3	3492.3	3506.9	3508.9	3488.1
47.5°	3240.6	3274.9	3289.5	3289.5	3277.0
50°	3013.9	3046.1	3063.8	3057.6	3050.3
52.5°	2758.1	2817.3	2835.0	2823.6	2806.9
55°	2533.4	2565.7	2601.0	2575.0	2571.9
57.5°	2292.2	2331.7	2353.5	2343.1	2313.0
60°	2051.9	2088.3	2111.2	2106.0	2093.5
62.5°	1813.8	1857.4	1882.4	1876.2	1885.5
65°	1591.2	1628.6	1658.8	1677.5	1680.6
67.5°	1381.1	1419.6	1455.0	1501.8	1525.7
70°	1188.7	1217.8	1268.8	1346.8	1366.6
72.5°	993.2	1029.6	1092.0	1199.1	1235.5
75°	815.4	850.7	939.1	1065.0	1096.2
77.5°	649.0	682.2	795.6	931.8	967.2
80°	484.6	533.5	664.6	800.8	841.4
82.5°	348.4	397.3	538.7	671.8	707.2
85°	226.7	279.8	427.4	545.0	568.9
87.5°	142.5	190.3	329.7	429.5	453.4
90°	108.2	138.3	249.6	329.7	346.3
92.5°	101.9	114.4	193.4	252.7	263.1
95°	99.8	105.0	159.1	194.5	199.7
97.5°	98.8	97.8	139.4	160.2	163.3
100°	95.7	91.5	124.8	139.4	139.4
102.5°	92.6	85.3	114.4	127.9	127.9
105°	85.3	80.1	108.2	120.6	121.7
107.5°	78.0	74.9	101.9	116.5	117.5
110°	69.7	67.6	96.7	112.3	115.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	61.4	59.3	91.5	109.2	113.4
115°	53.0	52.0	85.3	106.1	111.3
117.5°	45.8	43.7	79.0	100.9	108.2
120°	38.5	35.4	71.8	95.7	103.0
122.5°	32.2	28.1	63.4	89.4	97.8
125°	27.0	21.8	55.1	82.2	90.5
127.5°	22.9	17.7	46.8	73.8	83.2
130°	18.7	14.6	38.5	65.5	74.9
132.5°	15.6	12.5	31.2	56.2	65.5
135°	12.5	10.4	22.9	47.8	57.2
137.5°	10.4	8.3	15.6	38.5	47.8
140°	8.3	7.3	9.4	30.2	38.5
142.5°	7.3	5.2	4.2	22.9	29.1
145°	6.2	4.2	2.1	14.6	20.8
147.5°	5.2	4.2	2.1	8.3	13.5
150°	4.2	3.1	2.1	3.1	7.3
152.5°	4.2	3.1	2.1	0.0	1.0
155°	4.2	4.2	2.1	1.0	0.0
157.5°	4.2	4.2	2.1	1.0	0.0
160°	4.2	4.2	3.1	1.0	0.0
162.5°	4.2	4.2	3.1	1.0	1.0
165°	4.2	4.2	3.1	1.0	1.0
167.5°	4.2	4.2	3.1	1.0	1.0
170°	5.2	4.2	3.1	1.0	1.0
172.5°	5.2	4.2	3.1	2.1	1.0
175°	5.2	4.2	3.1	2.1	2.1
177.5°	5.2	5.2	3.1	2.1	2.1
180°	3.1	3.1	3.1	3.1	3.1

(END OF REPORT)