

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: P236609

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-15-PC-UNV-L850-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
6 BOARDS WITH CLEAR POLY CARBONATE LENS
Light Source: (336) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15496.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

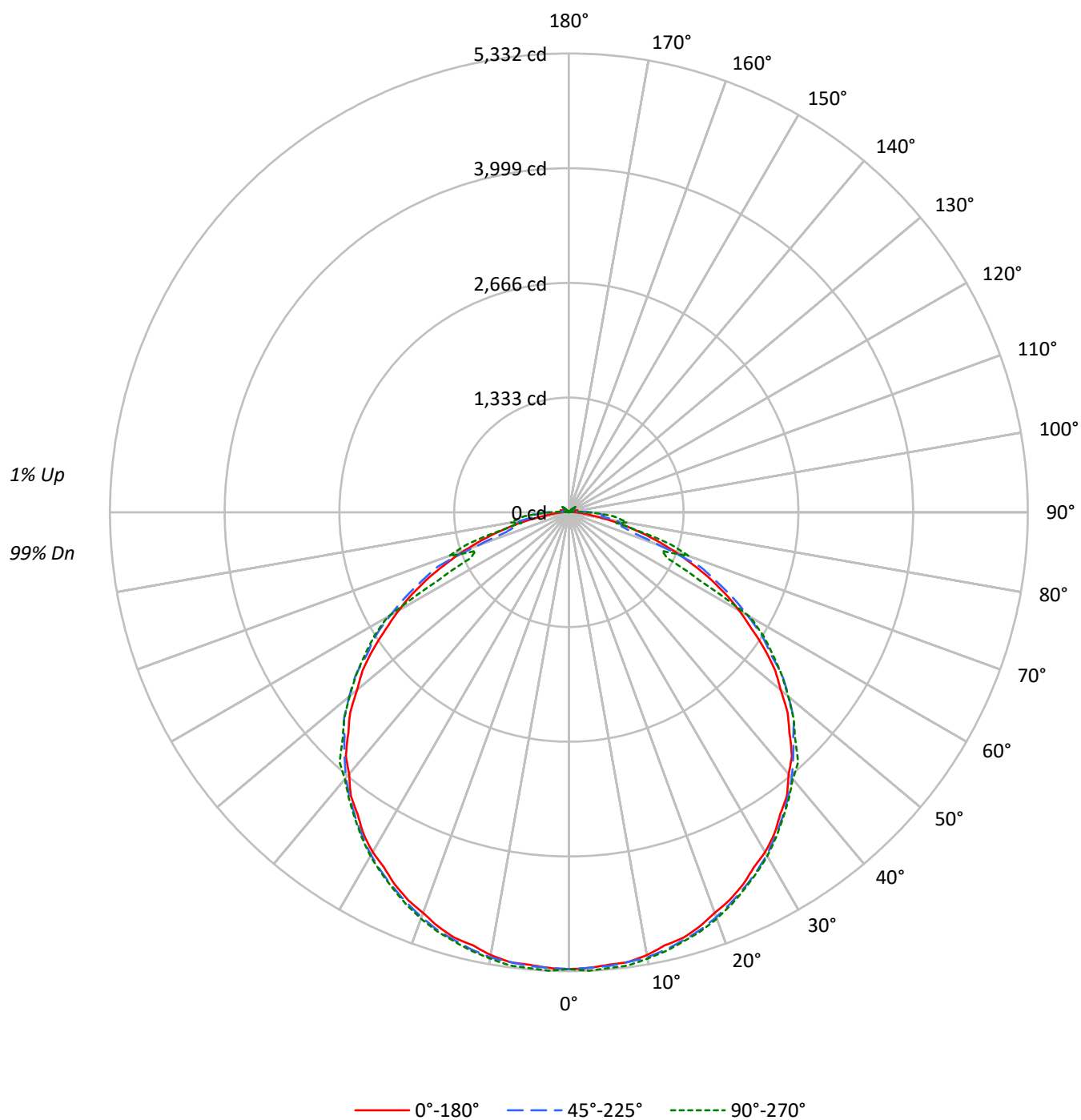
Input Watts (W): 112.45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	79	75	81	77	73	78	74	71			69
3	90	80	71	65	87	78	70	64	75	68	63	72	66	62	69	64	60			58
4	82	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	59	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°	13297	13297	13297
5°	13202	13063	13091
10°	13150	12876	12850
15°	13066	12626	12572
20°	12920	12388	12320
25°	12842	12114	12006
30°	12742	11843	11715
35°	12557	11511	11351
40°	12359	11178	11014
45°	12103	10774	10610
50°	11672	10358	10076
55°	11173	9568	9420
60°	10350	8770	8586
65°	9394	7664	4925
70°	8019	5174	6523
75°	6297	3418	4200
80°	4365	3762	4181
85°	2985	3451	3961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.5	3.3
10°-20°	1454.5	9.4
20°-30°	2221.5	14.3
30°-40°	2710.2	17.5
40°-50°	2849.1	18.4
50°-60°	2555.0	16.5
60°-70°	1711.9	11.0
70°-80°	880.7	5.7
80°-90°	381.2	2.5
90°-100°	93.1	0.6
100°-110°	40.0	0.3
110°-120°	28.3	0.2
120°-130°	34.0	0.2
130°-140°	24.3	0.2
140°-150°	4.5	0.0
150°-160°	1.6	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	4180.5	27.0
0°-40°	6890.7	44.5
0°-60°	12294.9	79.3
0°-90°	15268.7	98.5
90°-120°	161.3	1.0
90°-150°	224.1	1.4
90°-180°	227.0	1.5
0°-180°	15496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5308	5308	5308	5308	5308	
5°	5278	5294	5291	5312	5315	503
15°	5120	5158	5146	5168	5159	1443
25°	4778	4815	4817	4834	4830	2200
35°	4280	4338	4324	4339	4336	2685
45°	3623	3700	3688	3738	3714	2799
55°	2780	2832	2856	2893	2896	2473
65°	1791	1839	1882	1329	1258	1766
75°	798	825	633	837	823	861
85°	176	145	412	556	516	191
90°	70	139	251	225	214	42
95°	74	74	67	58	51	67
105°	90	49	27	23	21	93
115°	48	44	23	16	15	49
125°	24	21	58	33	16	22
135°	10	8	22	60	35	8
145°	5	4	4	5	6	3
155°	4	4	4	2	1	2
165°	4	4	5	3	2	1
175°	5	5	5	3	3	0
180°	4	4	4	4	4	



TEST NUMBER: P236609

CATALOG NUMBER: VRVT4LED-LD5-15-PC-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5308.0	5308.0	5308.0	5308.0	5308.0
2.5°	5299.7	5307.0	5298.6	5323.6	5331.9
5°	5277.8	5294.5	5291.4	5312.2	5315.3
7.5°	5270.6	5273.7	5270.6	5305.9	5310.1
10°	5224.8	5250.8	5251.8	5266.4	5265.4
12.5°	5154.1	5191.5	5205.0	5219.6	5221.7
15°	5119.8	5158.2	5145.8	5167.6	5159.3
17.5°	5048.0	5091.7	5085.4	5097.9	5102.1
20°	4953.4	5018.9	5006.4	5018.9	5025.1
22.5°	4877.5	4926.3	4913.9	4931.5	4932.6
25°	4777.6	4815.1	4817.1	4833.8	4829.6
27.5°	4651.8	4709.0	4712.1	4720.4	4723.5
30°	4559.2	4602.9	4596.7	4603.9	4611.2
32.5°	4437.5	4484.3	4463.5	4482.3	4478.1
35°	4280.5	4337.7	4324.2	4338.8	4335.6
37.5°	4158.8	4192.1	4180.7	4204.6	4196.3
40°	3971.6	4036.1	4027.8	4044.4	4046.5
42.5°	3835.4	3870.8	3857.2	3905.1	3942.5
45°	3623.3	3700.2	3687.7	3737.6	3713.7
47.5°	3446.5	3493.3	3542.1	3507.8	3540.1
50°	3211.4	3284.2	3331.0	3339.3	3324.8
52.5°	3021.1	3063.7	3128.2	3111.6	3120.9
55°	2779.8	2831.8	2855.8	2893.2	2896.3
57.5°	2516.7	2598.9	2657.1	2683.1	2683.1
60°	2282.7	2335.8	2395.0	2441.8	2426.2
62.5°	2048.7	2094.5	2147.5	2145.5	1712.8
65°	1790.8	1838.7	1882.3	1329.1	1258.4
67.5°	1524.6	1571.4	1648.4	1111.7	1170.0
70°	1277.1	1293.7	1119.0	1076.4	1477.8
72.5°	1031.6	1062.8	764.4	1323.9	1237.6
75°	797.7	824.7	633.3	837.2	822.6
77.5°	598.0	621.9	619.8	710.3	561.6
80°	406.6	321.4	575.1	578.2	684.3
82.5°	266.2	235.0	383.7	611.5	599.0
85°	175.8	144.6	411.8	556.4	515.8
87.5°	113.4	132.1	349.4	370.2	355.7
90°	69.7	139.4	250.6	224.6	214.2
92.5°	57.2	114.4	140.4	127.9	110.2
95°	73.8	73.8	66.6	58.2	51.0
97.5°	93.6	43.7	36.4	34.3	33.3
100°	100.9	39.5	29.1	27.0	25.0
102.5°	98.8	44.7	28.1	25.0	23.9
105°	90.5	48.9	27.0	22.9	20.8
107.5°	79.0	48.9	26.0	20.8	19.8
110°	67.6	46.8	23.9	18.7	17.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.2	43.7	22.9	17.7	16.6
115°	47.8	43.7	22.9	15.6	14.6
117.5°	40.6	41.6	22.9	13.5	12.5
120°	34.3	32.2	31.2	12.5	11.4
122.5°	28.1	27.0	78.0	14.6	11.4
125°	23.9	20.8	58.2	33.3	15.6
127.5°	19.8	15.6	32.2	105.0	67.6
130°	15.6	12.5	48.9	65.5	98.8
132.5°	13.5	10.4	52.0	31.2	49.9
135°	10.4	8.3	21.8	60.3	35.4
137.5°	8.3	7.3	9.4	71.8	79.0
140°	6.2	6.2	6.2	29.1	57.2
142.5°	5.2	5.2	5.2	8.3	18.7
145°	5.2	4.2	4.2	5.2	6.2
147.5°	4.2	4.2	4.2	4.2	4.2
150°	4.2	4.2	4.2	4.2	4.2
152.5°	3.1	4.2	4.2	2.1	3.1
155°	4.2	4.2	4.2	2.1	1.0
157.5°	4.2	4.2	4.2	2.1	2.1
160°	4.2	4.2	4.2	3.1	2.1
162.5°	4.2	4.2	4.2	3.1	2.1
165°	4.2	4.2	5.2	3.1	2.1
167.5°	4.2	5.2	5.2	3.1	2.1
170°	4.2	5.2	5.2	3.1	2.1
172.5°	4.2	5.2	5.2	3.1	2.1
175°	5.2	5.2	5.2	3.1	3.1
177.5°	5.2	5.2	5.2	3.1	3.1
180°	4.2	4.2	4.2	4.2	4.2

(END OF REPORT)