

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: P236601

Luminaire Tested: **VRVT4LED-LD5-15-DR-UNV-L835-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-15-DR-UNV-L835-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
6 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14924.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

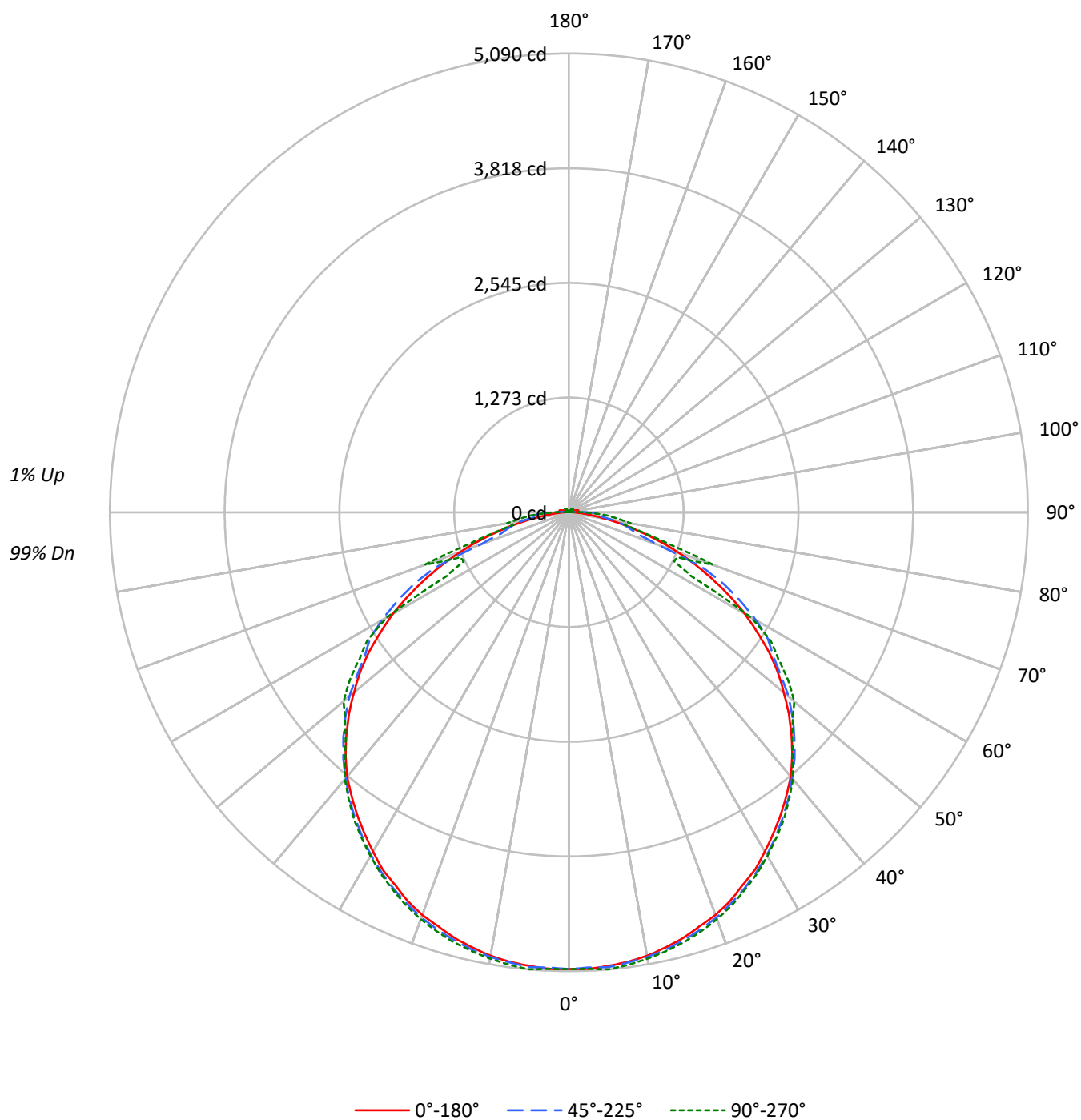
Input Watts (W): 112.42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	106	101	97	94	97	94	91	93	90	88	89	87	85			83
2	99	90	84	78	96	88	82	77	85	79	75	81	77	73	78	74	71			69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	64	60			58
4	82	70	62	55	80	69	61	54	66	59	53	64	58	53	61	56	52			50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	55	50	45			43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39			37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35			33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31			29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	28	39	33	28			26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26			24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12692	12692	12692
5°	12634	12503	12536
10°	12574	12280	12271
15°	12480	12057	12028
20°	12397	11836	11778
25°	12257	11580	11484
30°	12144	11314	11186
35°	12011	11006	10879
40°	11903	10683	10518
45°	11656	10333	10004
50°	11309	9885	9883
55°	10896	9246	9218
60°	10225	8763	8233
65°	9217	7773	5031
70°	8011	4799	7492
75°	6312	3793	4223
80°	4503	3314	4263
85°	2829	3351	3356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.9	3.2
10°-20°	1389.1	9.3
20°-30°	2123.4	14.2
30°-40°	2589.4	17.4
40°-50°	2719.7	18.2
50°-60°	2493.3	16.7
60°-70°	1703.7	11.4
70°-80°	892.2	6.0
80°-90°	349.2	2.3
90°-100°	72.5	0.5
100°-110°	38.0	0.3
110°-120°	27.0	0.2
120°-130°	19.3	0.1
130°-140°	17.0	0.1
140°-150°	5.2	0.0
150°-160°	1.5	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	3994.4	26.8
0°-40°	6583.7	44.1
0°-60°	11796.8	79.0
0°-90°	14741.9	98.8
90°-120°	137.5	0.9
90°-150°	179.1	1.2
90°-180°	182.0	1.2
0°-180°	14924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5067	5067	5067	5067	5067	
5°	5051	5066	5065	5079	5090	481
15°	4890	4916	4914	4932	4936	1380
25°	4560	4601	4605	4622	4620	2106
35°	4094	4142	4135	4153	4155	2563
45°	3490	3542	3537	3518	3502	2690
55°	2711	2763	2760	2862	2834	2413
65°	1757	1838	1909	1298	1286	1743
75°	800	870	703	796	827	863
85°	167	139	400	530	437	191
90°	50	122	203	168	170	34
95°	77	50	43	38	36	70
105°	90	41	26	22	21	94
115°	42	35	22	20	20	44
125°	20	17	43	14	13	18
135°	9	7	37	18	31	7
145°	4	4	4	6	7	3
155°	4	4	4	3	2	2
165°	4	4	5	3	2	1
175°	5	5	5	4	3	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5066.6	5066.6	5066.6	5066.6	5066.6
2.5°	5070.5	5075.4	5054.8	5064.6	5069.5
5°	5050.9	5065.6	5064.6	5079.3	5090.1
7.5°	5030.3	5033.2	5037.2	5058.7	5062.6
10°	4996.0	5018.5	5008.7	5028.3	5028.3
12.5°	4945.0	4970.5	4968.6	4986.2	4986.2
15°	4890.2	4915.6	4913.7	4932.3	4936.2
17.5°	4816.7	4852.9	4851.0	4874.5	4874.5
20°	4753.0	4780.4	4783.3	4802.9	4803.9
22.5°	4669.7	4700.0	4697.1	4717.7	4719.6
25°	4559.9	4601.1	4605.0	4621.6	4619.7
27.5°	4470.7	4498.2	4501.1	4514.8	4517.8
30°	4345.3	4388.4	4391.3	4402.1	4403.1
32.5°	4220.8	4270.8	4265.9	4282.6	4279.6
35°	4094.4	4142.4	4134.6	4153.2	4155.2
37.5°	3962.1	4004.2	4000.3	4017.0	4011.1
40°	3824.9	3857.2	3849.4	3860.2	3864.1
42.5°	3665.2	3703.4	3703.4	3701.4	3671.0
45°	3489.7	3541.7	3536.8	3518.2	3501.5
47.5°	3307.5	3361.4	3363.3	3338.8	3366.3
50°	3111.5	3180.1	3179.1	3180.1	3261.4
52.5°	2921.4	2981.1	2955.7	3080.1	3064.4
55°	2710.7	2762.6	2759.7	2861.6	2834.1
57.5°	2474.5	2537.2	2615.6	2635.2	2653.8
60°	2255.0	2312.8	2393.1	2425.5	2326.5
62.5°	2008.0	2068.8	2155.0	2045.2	1520.9
65°	1757.1	1837.5	1909.0	1297.5	1285.7
67.5°	1517.0	1576.8	1609.1	1142.7	1303.4
70°	1275.9	1324.9	1037.8	1206.4	1697.3
72.5°	1036.8	1102.5	787.9	1399.4	1146.6
75°	799.7	870.2	702.7	795.8	827.1
77.5°	592.9	621.3	618.4	616.4	627.2
80°	419.4	351.8	506.7	554.7	697.8
82.5°	273.4	226.4	359.7	520.4	549.8
85°	166.6	139.2	399.8	530.2	437.1
87.5°	102.9	134.3	310.7	312.6	282.2
90°	50.0	122.5	202.9	167.6	170.5
92.5°	45.1	92.1	102.9	82.3	81.3
95°	77.4	50.0	43.1	38.2	36.3
97.5°	103.9	31.4	27.4	28.4	28.4
100°	107.8	30.4	26.5	29.4	31.4
102.5°	102.9	33.3	25.5	23.5	21.6
105°	90.2	41.2	25.5	22.5	20.6
107.5°	77.4	44.1	25.5	22.5	21.6
110°	63.7	43.1	24.5	21.6	20.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	51.9	39.2	23.5	21.6	20.6
115°	42.1	35.3	22.5	19.6	19.6
117.5°	35.3	32.3	21.6	16.7	16.7
120°	29.4	29.4	20.6	14.7	14.7
122.5°	23.5	22.5	22.5	13.7	13.7
125°	19.6	16.7	43.1	13.7	12.7
127.5°	16.7	12.7	43.1	17.6	12.7
130°	13.7	10.8	20.6	45.1	19.6
132.5°	10.8	8.8	25.5	54.9	62.7
135°	8.8	6.9	37.2	17.6	31.4
137.5°	6.9	5.9	10.8	24.5	15.7
140°	5.9	4.9	5.9	53.9	32.3
142.5°	4.9	3.9	4.9	11.8	42.1
145°	3.9	3.9	3.9	5.9	6.9
147.5°	3.9	3.9	3.9	4.9	3.9
150°	3.9	2.9	3.9	2.9	2.9
152.5°	2.9	3.9	3.9	2.0	2.0
155°	3.9	3.9	3.9	2.9	2.0
157.5°	3.9	3.9	3.9	2.9	2.0
160°	3.9	3.9	3.9	2.9	2.0
162.5°	3.9	3.9	3.9	2.9	2.0
165°	3.9	3.9	4.9	2.9	2.0
167.5°	3.9	4.9	4.9	3.9	2.0
170°	3.9	4.9	4.9	3.9	2.9
172.5°	3.9	4.9	4.9	3.9	2.9
175°	4.9	4.9	4.9	3.9	2.9
177.5°	4.9	4.9	4.9	3.9	2.9
180°	3.9	3.9	3.9	3.9	3.9

(END OF REPORT)