

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: P236607

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236607
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-L835-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
6 BOARDS WITH CLEAR POLY CARBONATE LENS
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14602.0 lumens
Efficiency: N/A
Efficacy: 129.9 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

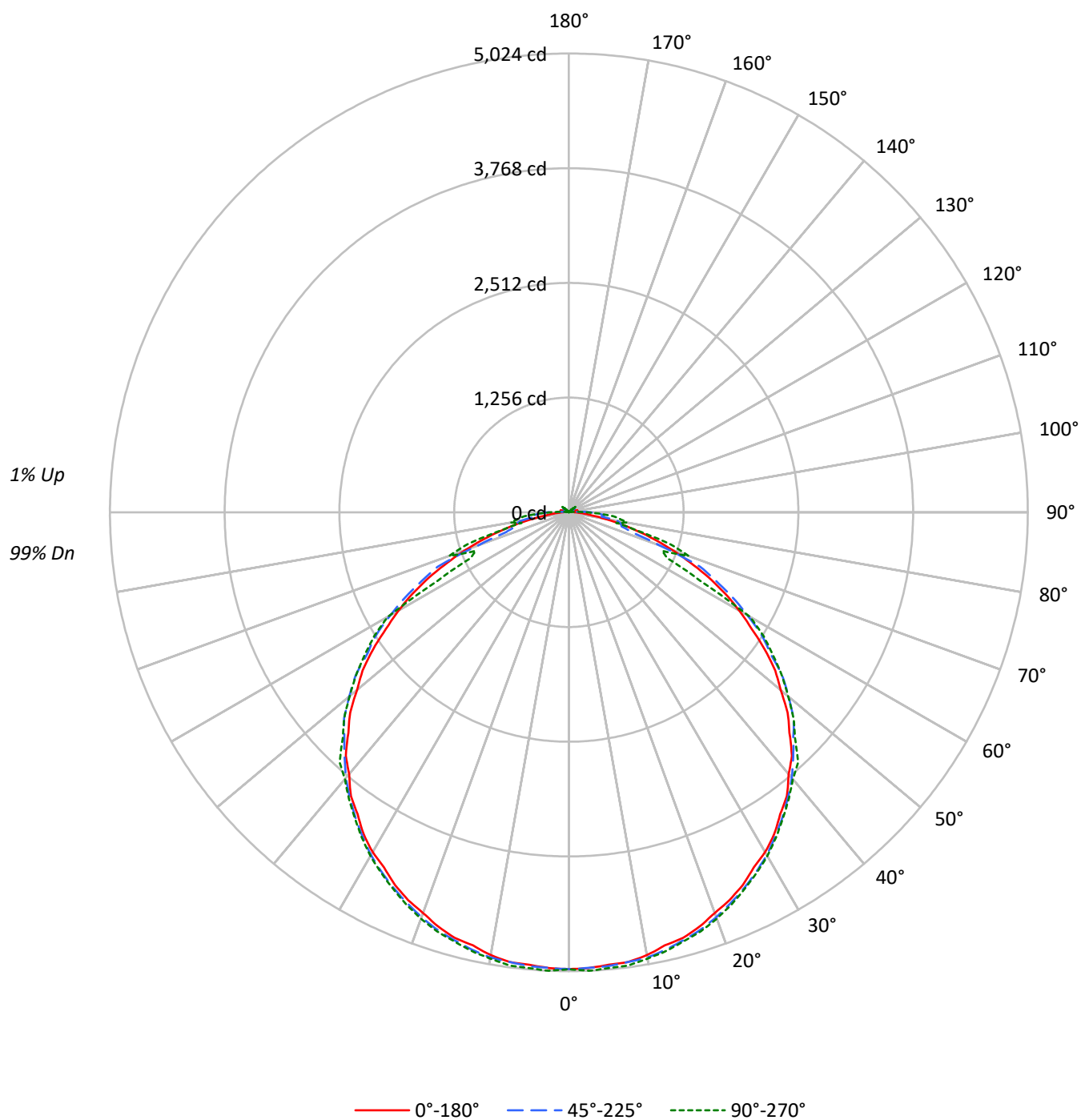
Input Watts (W): 112.45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		110	110	110		105	105	105		101	101	101
1	108	104	99	96	106	101	97	94		97	94	91		93	90	88		89	87	85
2	99	91	84	78	96	89	82	77		85	79	75		81	77	73		78	74	71
3	90	80	71	65	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	71	62	55	80	69	61	55		66	59	54		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		55	50	45
6	70	57	48	41	68	56	47	41		54	46	41		52	45	40		50	44	40
7	65	51	43	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	31
9	56	43	35	29	55	42	34	29		41	34	29		40	33	29		39	33	28
10	53	40	32	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12530	12530	12530
5°	12440	12309	12336
10°	12391	12134	12108
15°	12312	11898	11846
20°	12174	11673	11609
25°	12102	11415	11313
30°	12007	11160	11039
35°	11833	10847	10696
40°	11646	10533	10379
45°	11404	10153	9998
50°	10999	9760	9494
55°	10529	9016	8877
60°	9753	8265	8091
65°	8852	7222	4640
70°	7556	4875	6146
75°	5933	3221	3958
80°	4114	3545	3940
85°	2812	3253	3733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.4	3.3
10°-20°	1370.5	9.4
20°-30°	2093.3	14.3
30°-40°	2553.8	17.5
40°-50°	2684.8	18.4
50°-60°	2407.6	16.5
60°-70°	1613.1	11.0
70°-80°	829.9	5.7
80°-90°	359.2	2.5
90°-100°	87.7	0.6
100°-110°	37.7	0.3
110°-120°	26.6	0.2
120°-130°	32.0	0.2
130°-140°	22.9	0.2
140°-150°	4.2	0.0
150°-160°	1.5	0.0
160°-170°	1.0	0.0
170°-180°	0.4	0.0
0°-30°	3939.3	27.0
0°-40°	6493.2	44.5
0°-60°	11585.6	79.3
0°-90°	14387.9	98.5
90°-120°	152.0	1.0
90°-150°	211.2	1.4
90°-180°	214.0	1.5
0°-180°	14602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5002	5002	5002	5002	5002	
5°	4973	4989	4986	5006	5009	474
15°	4824	4861	4849	4870	4862	1360
25°	4502	4537	4539	4555	4551	2073
35°	4034	4088	4075	4088	4086	2530
45°	3414	3487	3475	3522	3500	2637
55°	2620	2668	2691	2726	2729	2331
65°	1688	1733	1774	1252	1186	1664
75°	752	777	597	789	775	812
85°	166	136	388	524	486	180
90°	66	131	236	212	202	40
95°	70	70	63	55	48	63
105°	85	46	26	22	20	88
115°	45	41	22	15	14	46
125°	22	20	55	31	15	21
135°	10	8	21	57	33	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5001.8	5001.8	5001.8	5001.8	5001.8
2.5°	4993.9	5000.8	4993.0	5016.5	5024.3
5°	4973.4	4989.0	4986.1	5005.7	5008.6
7.5°	4966.5	4969.4	4966.5	4999.8	5003.7
10°	4923.4	4947.9	4948.9	4962.6	4961.6
12.5°	4856.7	4892.0	4904.8	4918.5	4920.4
15°	4824.4	4860.7	4848.9	4869.5	4861.6
17.5°	4756.8	4797.9	4792.1	4803.8	4807.7
20°	4667.6	4729.3	4717.6	4729.3	4735.2
22.5°	4596.1	4642.1	4630.4	4647.0	4648.0
25°	4502.0	4537.3	4539.2	4554.9	4551.0
27.5°	4383.4	4437.3	4440.2	4448.1	4451.0
30°	4296.2	4337.4	4331.5	4338.3	4345.2
32.5°	4181.5	4225.6	4206.0	4223.7	4219.8
35°	4033.6	4087.5	4074.7	4088.4	4085.5
37.5°	3918.9	3950.3	3939.5	3962.0	3954.2
40°	3742.5	3803.3	3795.4	3811.1	3813.1
42.5°	3614.1	3647.5	3634.7	3679.8	3715.1
45°	3414.2	3486.7	3475.0	3522.0	3499.5
47.5°	3247.6	3291.7	3337.8	3305.4	3335.8
50°	3026.2	3094.7	3138.8	3146.7	3133.0
52.5°	2846.8	2887.0	2947.8	2932.1	2940.9
55°	2619.5	2668.5	2691.0	2726.3	2729.2
57.5°	2371.5	2448.9	2503.8	2528.3	2528.3
60°	2151.0	2201.0	2256.9	2301.0	2286.3
62.5°	1930.5	1973.7	2023.6	2021.7	1614.0
65°	1687.5	1732.6	1773.7	1252.4	1185.8
67.5°	1436.6	1480.7	1553.3	1047.6	1102.5
70°	1203.4	1219.1	1054.4	1014.3	1392.5
72.5°	972.1	1001.5	720.3	1247.5	1166.2
75°	751.6	777.1	596.8	788.9	775.2
77.5°	563.5	586.0	584.1	669.3	529.2
80°	383.2	302.8	541.9	544.9	644.8
82.5°	250.9	221.5	361.6	576.2	564.5
85°	165.6	136.2	388.1	524.3	486.1
87.5°	106.8	124.5	329.3	348.9	335.2
90°	65.7	131.3	236.2	211.7	201.9
92.5°	53.9	107.8	132.3	120.5	103.9
95°	69.6	69.6	62.7	54.9	48.0
97.5°	88.2	41.2	34.3	32.3	31.4
100°	95.1	37.2	27.4	25.5	23.5
102.5°	93.1	42.1	26.5	23.5	22.5
105°	85.3	46.1	25.5	21.6	19.6
107.5°	74.5	46.1	24.5	19.6	18.6
110°	63.7	44.1	22.5	17.6	16.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.9	41.2	21.6	16.7	15.7
115°	45.1	41.2	21.6	14.7	13.7
117.5°	38.2	39.2	21.6	12.7	11.8
120°	32.3	30.4	29.4	11.8	10.8
122.5°	26.5	25.5	73.5	13.7	10.8
125°	22.5	19.6	54.9	31.4	14.7
127.5°	18.6	14.7	30.4	99.0	63.7
130°	14.7	11.8	46.1	61.7	93.1
132.5°	12.7	9.8	49.0	29.4	47.0
135°	9.8	7.8	20.6	56.8	33.3
137.5°	7.8	6.9	8.8	67.6	74.5
140°	5.9	5.9	5.9	27.4	53.9
142.5°	4.9	4.9	4.9	7.8	17.6
145°	4.9	3.9	3.9	4.9	5.9
147.5°	3.9	3.9	3.9	3.9	3.9
150°	3.9	3.9	3.9	3.9	3.9
152.5°	2.9	3.9	3.9	2.0	2.9
155°	3.9	3.9	3.9	2.0	1.0
157.5°	3.9	3.9	3.9	2.0	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	2.9	2.0
170°	3.9	4.9	4.9	2.9	2.0
172.5°	3.9	4.9	4.9	2.9	2.0
175°	4.9	4.9	4.9	2.9	2.9
177.5°	4.9	4.9	4.9	2.9	2.9
180°	3.9	3.9	3.9	3.9	3.9

(END OF REPORT)