

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: P236604

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236604
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-L835-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
6 BOARDS WITH FROSTED ACYLIC LENS
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14537.0 lumens
Efficiency: N/A
Efficacy: 129.3 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

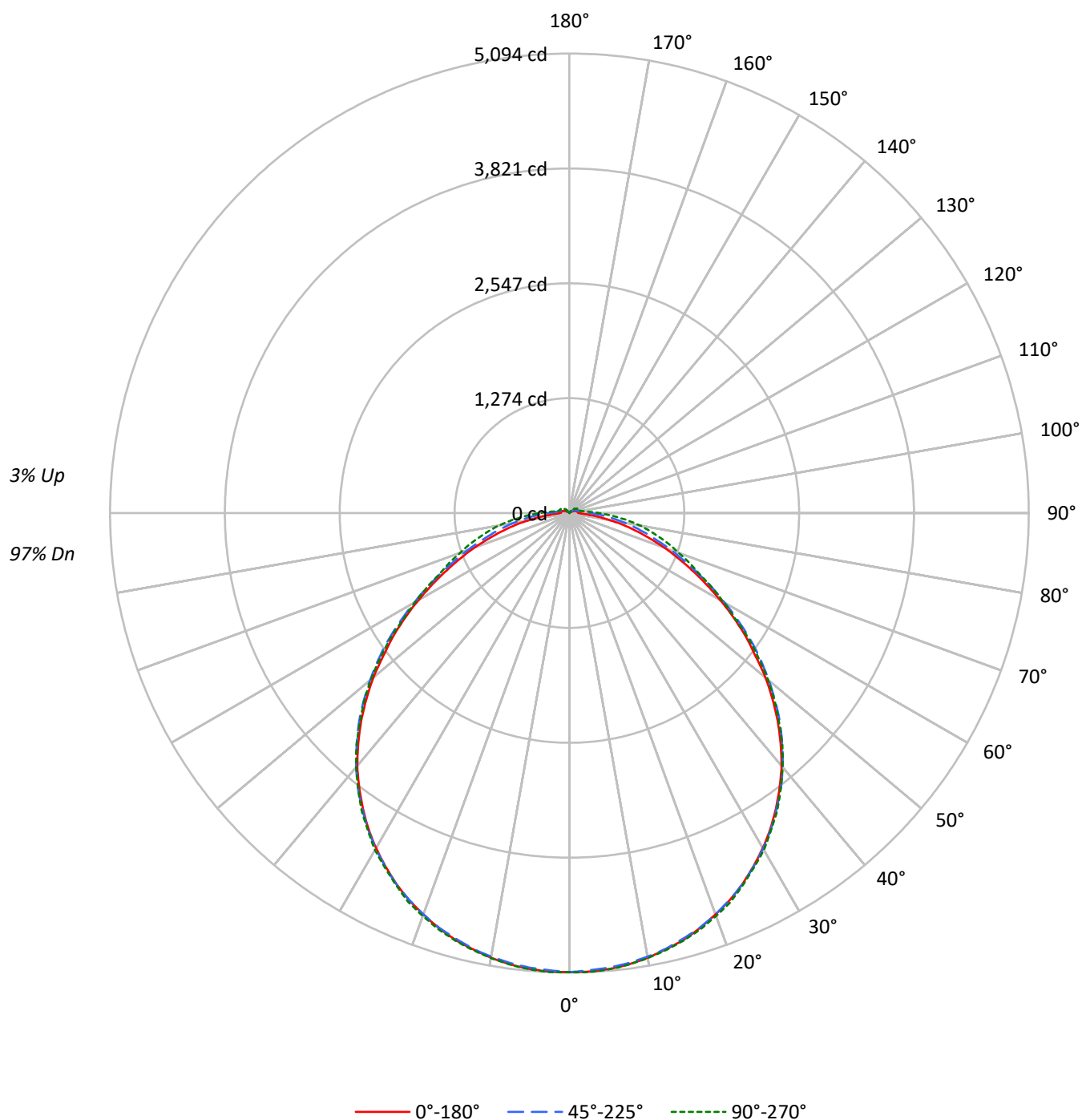
Input Watts (W): 112.42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
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°	12748	12748	12748
5°	12690	12488	12505
10°	12599	12245	12226
15°	12497	11982	11952
20°	12351	11715	11655
25°	12197	11418	11311
30°	11985	11066	10955
35°	11715	10659	10527
40°	11387	10215	10009
45°	10910	9655	9391
50°	10322	8977	8710
55°	9596	8212	7883
60°	8767	7285	6981
65°	7865	6364	6198
70°	7033	5528	5684
75°	6065	4776	5274
80°	4903	4096	4844
85°	3627	3376	4116



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.9	3.3
10°-20°	1381.9	9.5
20°-30°	2093.8	14.4
30°-40°	2507.1	17.2
40°-50°	2537.5	17.5
50°-60°	2167.7	14.9
60°-70°	1552.5	10.7
70°-80°	954.1	6.6
80°-90°	438.7	3.0
90°-100°	166.5	1.1
100°-110°	103.7	0.7
110°-120°	75.8	0.5
120°-130°	46.4	0.3
130°-140°	21.5	0.1
140°-150°	5.7	0.0
150°-160°	1.1	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	3957.6	27.2
0°-40°	6464.6	44.5
0°-60°	11169.9	76.8
0°-90°	14115.3	97.1
90°-120°	346.0	2.4
90°-150°	419.7	2.9
90°-180°	422.0	2.9
0°-180°	14537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5089	5089	5089	5089	5089	
5°	5073	5074	5059	5074	5077	482
15°	4897	4902	4883	4902	4905	1381
25°	4537	4542	4540	4554	4550	2090
35°	3994	4017	4004	4020	4021	2497
45°	3266	3291	3305	3306	3287	2515
55°	2387	2418	2451	2426	2424	2130
65°	1499	1535	1563	1581	1584	1493
75°	768	802	885	1004	1033	818
85°	214	264	403	514	536	228
90°	102	130	235	311	326	59
95°	94	99	150	183	188	76
105°	80	76	102	114	115	84
115°	50	49	80	100	105	50
125°	26	21	52	77	85	24
135°	12	10	22	45	54	10
145°	6	4	2	14	20	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°	5089.1	5089.1	5089.1	5089.1	5089.1
2.5°	5088.1	5089.1	5072.5	5088.1	5094.0
5°	5073.4	5074.4	5058.7	5074.4	5077.4
7.5°	5046.0	5047.0	5031.3	5048.0	5049.9
10°	5005.8	5009.7	4994.1	5008.8	5009.7
12.5°	4952.9	4959.8	4946.0	4961.7	4960.7
15°	4897.0	4901.9	4883.3	4901.9	4904.9
17.5°	4821.6	4824.5	4815.7	4834.3	4836.3
20°	4735.3	4739.3	4734.4	4753.0	4754.0
22.5°	4645.2	4647.1	4641.3	4658.9	4667.7
25°	4537.4	4542.3	4540.3	4554.0	4550.1
27.5°	4416.8	4428.6	4419.8	4437.4	4430.6
30°	4288.5	4303.2	4295.3	4311.0	4312.0
32.5°	4148.3	4160.1	4157.2	4167.9	4164.0
35°	3993.5	4017.0	4004.3	4020.0	4020.9
37.5°	3830.8	3852.4	3850.4	3859.2	3849.4
40°	3659.3	3674.0	3680.9	3679.9	3677.0
42.5°	3467.2	3495.7	3493.7	3494.7	3495.7
45°	3266.3	3290.8	3304.6	3306.5	3286.9
47.5°	3053.7	3086.0	3099.7	3099.7	3088.0
50°	2840.0	2870.4	2887.1	2881.2	2874.3
52.5°	2599.0	2654.8	2671.5	2660.7	2645.0
55°	2387.3	2417.7	2451.0	2426.5	2423.5
57.5°	2159.9	2197.2	2217.7	2207.9	2179.5
60°	1933.5	1967.8	1989.4	1984.5	1972.7
62.5°	1709.1	1750.3	1773.8	1767.9	1776.7
65°	1499.4	1534.7	1563.1	1580.7	1583.7
67.5°	1301.4	1337.7	1371.0	1415.1	1437.7
70°	1120.1	1147.6	1195.6	1269.1	1287.7
72.5°	935.9	970.2	1029.0	1129.9	1164.2
75°	768.3	801.6	884.9	1003.5	1032.9
77.5°	611.5	642.9	749.7	878.1	911.4
80°	456.7	502.7	626.2	754.6	792.8
82.5°	328.3	374.4	507.6	633.1	666.4
85°	213.6	263.6	402.8	513.5	536.1
87.5°	134.3	179.3	310.7	404.7	427.3
90°	101.9	130.3	235.2	310.7	326.3
92.5°	96.0	107.8	182.3	238.1	247.9
95°	94.1	99.0	149.9	183.3	188.2
97.5°	93.1	92.1	131.3	150.9	153.9
100°	90.2	86.2	117.6	131.3	131.3
102.5°	87.2	80.4	107.8	120.5	120.5
105°	80.4	75.5	101.9	113.7	114.7
107.5°	73.5	70.6	96.0	109.8	110.7
110°	65.7	63.7	91.1	105.8	108.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.8	55.9	86.2	102.9	106.8
115°	50.0	49.0	80.4	100.0	104.9
117.5°	43.1	41.2	74.5	95.1	101.9
120°	36.3	33.3	67.6	90.2	97.0
122.5°	30.4	26.5	59.8	84.3	92.1
125°	25.5	20.6	51.9	77.4	85.3
127.5°	21.6	16.7	44.1	69.6	78.4
130°	17.6	13.7	36.3	61.7	70.6
132.5°	14.7	11.8	29.4	52.9	61.7
135°	11.8	9.8	21.6	45.1	53.9
137.5°	9.8	7.8	14.7	36.3	45.1
140°	7.8	6.9	8.8	28.4	36.3
142.5°	6.9	4.9	3.9	21.6	27.4
145°	5.9	3.9	2.0	13.7	19.6
147.5°	4.9	3.9	2.0	7.8	12.7
150°	3.9	2.9	2.0	2.9	6.9
152.5°	3.9	2.9	2.0	0.0	1.0
155°	3.9	3.9	2.0	1.0	0.0
157.5°	3.9	3.9	2.0	1.0	0.0
160°	3.9	3.9	2.9	1.0	0.0
162.5°	3.9	3.9	2.9	1.0	1.0
165°	3.9	3.9	2.9	1.0	1.0
167.5°	3.9	3.9	2.9	1.0	1.0
170°	4.9	3.9	2.9	1.0	1.0
172.5°	4.9	3.9	2.9	2.0	1.0
175°	4.9	3.9	2.9	2.0	2.0
177.5°	4.9	4.9	2.9	2.0	2.0
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)