

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: P236613

Luminaire Tested: **VRVT4LED-LD5-18-DRF-UNV-L835-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-18-DRF-UNV-L835-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
8 BOARDS WITH FROSTED ACYLIC LENS
Light Source: (448) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17555.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.19 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

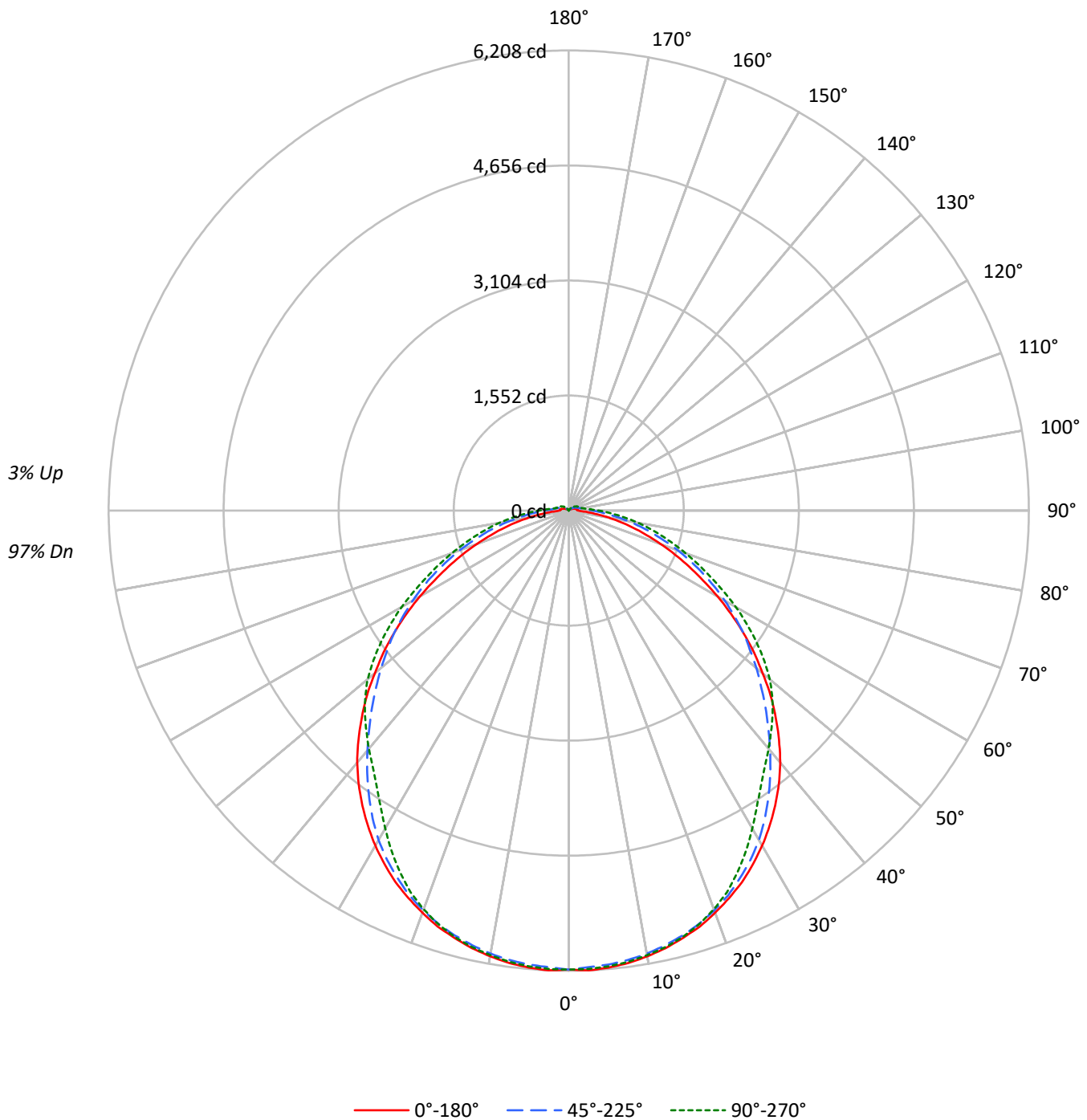
Input Watts (W): 133.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83
2	98	90	83	77	95	87	81	76	83	78	73	80	75	71	76	72	69
3	89	79	70	64	87	77	69	63	73	67	62	70	65	60	67	63	59
4	82	70	61	54	79	68	60	54	65	58	53	63	57	52	60	55	51
5	75	62	53	47	73	61	53	46	59	51	46	56	50	45	54	49	44
6	70	56	47	41	67	55	47	41	53	46	40	51	44	39	49	43	39
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	35	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15513	15513	15513
5°	15481	15177	15199
10°	15369	14881	14862
15°	15226	14560	14503
20°	15058	14201	14032
25°	14868	13754	13389
30°	14585	13221	12579
35°	14246	12512	11839
40°	13818	11722	11415
45°	13192	10961	11110
50°	12410	10279	10733
55°	11554	9630	10054
60°	10513	8904	9215
65°	9392	8108	8246
70°	8289	7223	7384
75°	7147	6289	6575
80°	5871	5269	5772
85°	4444	4345	4891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.1	3.3
10°-20°	1678.2	9.6
20°-30°	2514.9	14.3
30°-40°	2939.0	16.7
40°-50°	2971.2	16.9
50°-60°	2622.5	14.9
60°-70°	1948.0	11.1
70°-80°	1194.7	6.8
80°-90°	550.1	3.1
90°-100°	230.5	1.3
100°-110°	140.7	0.8
110°-120°	92.9	0.5
120°-130°	52.8	0.3
130°-140°	23.6	0.1
140°-150°	6.7	0.0
150°-160°	1.6	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	4779.2	27.2
0°-40°	7718.2	44.0
0°-60°	13311.9	75.8
0°-90°	17004.6	96.9
90°-120°	464.1	2.6
90°-150°	547.2	3.1
90°-180°	550.0	3.1
0°-180°	17555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6193	6193	6193	6193	6193	
5°	6189	6174	6148	6166	6171	588
15°	5966	5954	5934	5953	5952	1684
25°	5531	5512	5470	5430	5386	2546
35°	4856	4840	4700	4553	4522	3035
45°	3950	3913	3752	3829	3889	3043
55°	2874	2829	2874	3064	3091	2568
65°	1790	1797	1991	2106	2107	1781
75°	906	976	1165	1259	1288	965
85°	262	352	518	622	637	273
90°	127	203	324	394	403	74
95°	115	158	218	247	250	92
105°	91	106	140	156	159	96
115°	55	60	100	122	128	55
125°	28	24	60	86	96	26
135°	14	11	24	49	57	11
145°	7	5	4	17	22	4
155°	5	5	4	2	1	2
165°	6	5	4	2	1	2
175°	6	6	5	3	3	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6192.8	6192.8	6192.8	6192.8	6192.8
2.5°	6208.5	6192.8	6166.3	6184.0	6188.9
5°	6188.9	6174.2	6147.7	6166.3	6171.2
7.5°	6155.6	6140.9	6115.4	6134.0	6140.9
10°	6106.6	6091.9	6069.3	6084.0	6089.9
12.5°	6044.8	6032.1	6006.6	6028.2	6031.1
15°	5966.4	5953.7	5934.1	5952.7	5951.7
17.5°	5883.1	5864.5	5845.9	5855.7	5851.8
20°	5773.3	5756.7	5739.0	5733.2	5723.4
22.5°	5656.7	5643.0	5618.5	5595.0	5574.4
25°	5531.3	5511.7	5469.5	5430.3	5386.2
27.5°	5380.4	5368.6	5310.8	5228.5	5177.5
30°	5218.7	5206.9	5131.4	5007.9	4951.1
32.5°	5044.2	5029.5	4923.7	4785.5	4724.7
35°	4856.0	4840.4	4700.2	4553.2	4521.9
37.5°	4656.1	4629.7	4468.0	4343.5	4345.4
40°	4440.5	4405.2	4223.9	4156.3	4193.5
42.5°	4199.4	4170.0	3984.8	3989.7	4040.7
45°	3949.5	3913.3	3751.5	3829.0	3888.8
47.5°	3694.7	3648.6	3521.2	3648.6	3724.1
50°	3414.4	3376.2	3305.6	3475.2	3541.8
52.5°	3150.8	3115.5	3080.2	3272.3	3322.3
55°	2874.4	2829.3	2874.4	3063.6	3091.0
57.5°	2598.1	2557.9	2647.1	2831.3	2848.0
60°	2318.7	2290.3	2431.5	2589.2	2603.9
62.5°	2043.4	2041.4	2210.0	2344.2	2351.1
65°	1790.5	1797.4	1991.4	2106.1	2107.1
67.5°	1549.4	1574.9	1769.9	1869.9	1883.6
70°	1320.1	1364.2	1562.2	1656.2	1672.9
72.5°	1103.5	1162.3	1350.5	1449.5	1473.0
75°	905.5	976.1	1165.3	1259.3	1287.8
77.5°	717.4	796.8	981.0	1082.0	1118.2
80°	546.9	627.2	805.6	916.3	944.7
82.5°	384.2	479.2	653.7	766.4	788.9
85°	261.7	351.8	518.4	622.3	637.0
87.5°	165.6	261.7	411.6	496.9	509.6
90°	127.4	202.9	324.4	394.0	402.8
92.5°	119.6	174.4	261.7	306.7	315.6
95°	114.7	157.8	217.6	247.0	249.9
97.5°	110.7	143.1	191.1	209.7	209.7
100°	105.8	130.3	170.5	184.2	184.2
102.5°	100.0	117.6	153.9	167.6	170.5
105°	91.1	105.8	140.1	155.8	158.8
107.5°	82.3	94.1	129.4	146.0	149.9
110°	73.5	82.3	119.6	137.2	143.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.7	71.5	109.8	129.4	136.2
115°	54.9	59.8	100.0	121.5	128.4
117.5°	47.0	49.0	90.2	112.7	121.5
120°	40.2	39.2	80.4	104.9	113.7
122.5°	33.3	31.4	70.6	96.0	104.9
125°	28.4	23.5	59.8	86.2	96.0
127.5°	23.5	18.6	51.0	76.4	87.2
130°	19.6	15.7	41.2	67.6	77.4
132.5°	16.7	12.7	32.3	57.8	66.6
135°	13.7	10.8	24.5	49.0	56.8
137.5°	11.8	8.8	17.6	39.2	48.0
140°	9.8	7.8	10.8	30.4	38.2
142.5°	7.8	5.9	5.9	23.5	29.4
145°	6.9	4.9	3.9	16.7	21.6
147.5°	5.9	4.9	2.9	9.8	13.7
150°	4.9	3.9	2.9	3.9	7.8
152.5°	4.9	4.9	2.9	2.0	2.0
155°	4.9	4.9	3.9	2.0	1.0
157.5°	4.9	4.9	3.9	2.0	1.0
160°	4.9	4.9	3.9	2.0	1.0
162.5°	5.9	4.9	3.9	2.0	1.0
165°	5.9	4.9	3.9	2.0	1.0
167.5°	5.9	5.9	4.9	2.9	2.0
170°	5.9	5.9	4.9	2.9	2.0
172.5°	5.9	5.9	4.9	2.9	2.0
175°	5.9	5.9	4.9	2.9	2.9
177.5°	5.9	5.9	4.9	2.9	2.9
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)