

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: P236585

Luminaire Tested: **VRVT4LED-LD5-9-DR-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-9-DR-UNV-L850-CD1-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
4 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (224) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9362.0 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

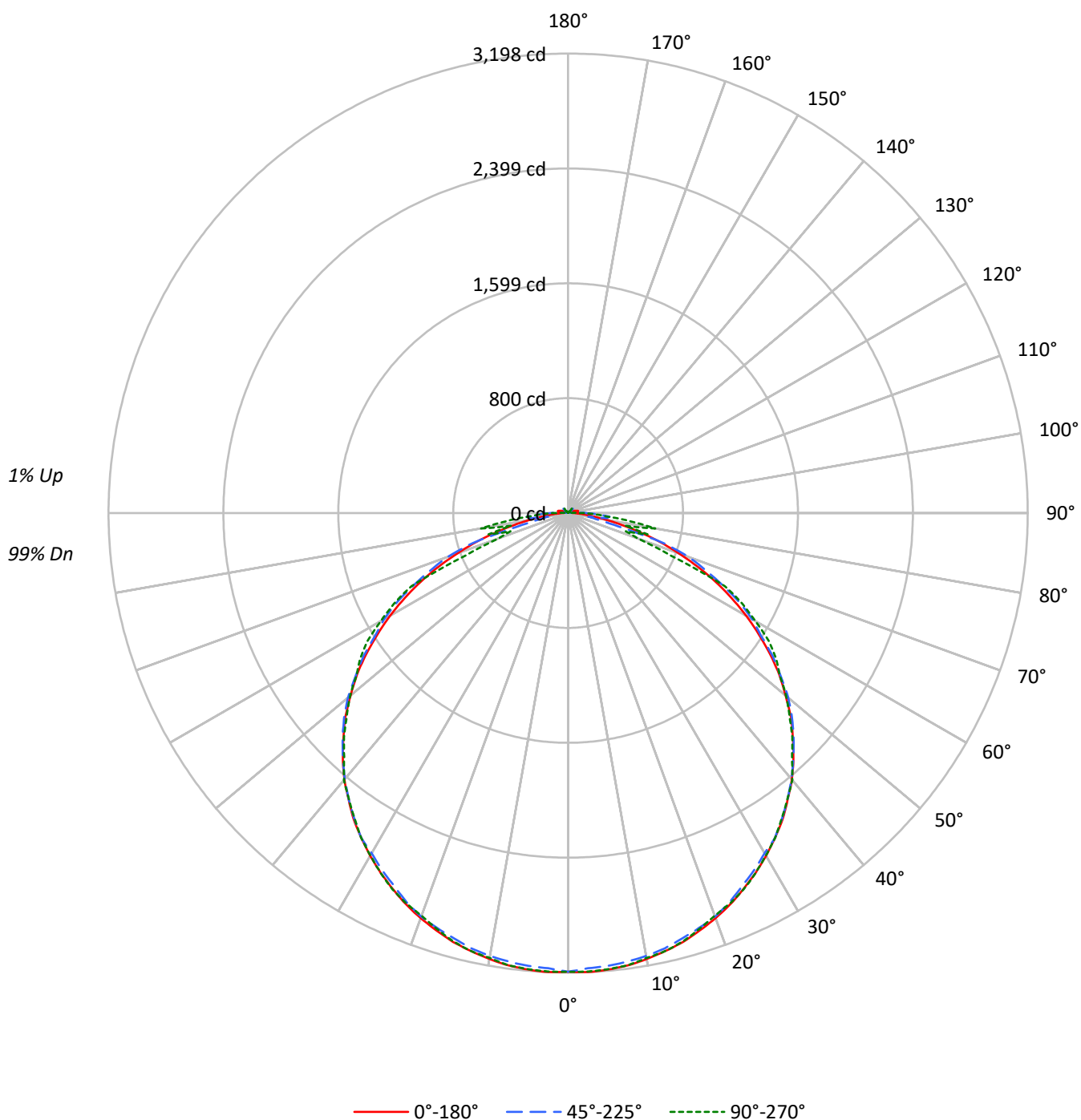
Input Watts (W): 64.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7998	7998	7998
5°	7978	7812	7848
10°	7933	7675	7672
15°	7887	7520	7521
20°	7825	7395	7310
25°	7760	7202	7184
30°	7696	7044	6991
35°	7633	6907	6788
40°	7537	6710	6604
45°	7385	6484	6302
50°	7178	6215	6004
55°	6901	5822	5743
60°	6493	5415	5325
65°	5935	4806	4709
70°	5125	4111	2263
75°	4079	1948	2926
80°	2880	932	3761
85°	1802	2423	2028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.5	3.2
10°-20°	870.2	9.3
20°-30°	1329.0	14.2
30°-40°	1625.5	17.4
40°-50°	1706.0	18.2
50°-60°	1555.2	16.6
60°-70°	1137.3	12.1
70°-80°	500.0	5.3
80°-90°	229.8	2.5
90°-100°	41.3	0.4
100°-110°	21.9	0.2
110°-120°	15.7	0.2
120°-130°	9.6	0.1
130°-140°	11.9	0.1
140°-150°	3.8	0.0
150°-160°	1.2	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	2501.7	26.7
0°-40°	4127.2	44.1
0°-60°	7388.4	78.9
0°-90°	9255.6	98.9
90°-120°	78.9	0.8
90°-150°	104.3	1.1
90°-180°	106.0	1.1
0°-180°	9362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3193	3193	3193	3193	3193	
5°	3190	3185	3164	3186	3186	303
15°	3091	3086	3065	3096	3086	872
25°	2887	2884	2864	2891	2890	1331
35°	2602	2603	2595	2597	2592	1626
45°	2211	2212	2219	2213	2206	1706
55°	1717	1739	1738	1766	1766	1531
65°	1131	1146	1180	1227	1203	1116
75°	517	540	361	252	573	557
85°	106	75	289	313	264	122
90°	31	82	122	108	92	22
95°	50	27	21	18	17	46
105°	62	20	15	12	11	65
115°	29	22	11	9	9	30
125°	14	11	10	7	7	13
135°	6	4	10	21	10	5
145°	3	3	2	11	8	2
155°	2	3	3	2	1	1
165°	3	3	3	2	2	1
175°	3	3	3	3	2	0
180°	3	3	3	3	3	



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CATALOG NUMBER: VRVT4LED-LD5-9-DR-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3192.6	3192.6	3192.6	3192.6	3192.6
2.5°	3197.8	3193.6	3170.8	3192.6	3193.6
5°	3189.5	3185.3	3164.5	3186.4	3186.4
7.5°	3176.0	3169.7	3148.9	3174.9	3174.9
10°	3152.0	3150.0	3130.2	3147.9	3143.7
12.5°	3122.9	3118.8	3103.2	3120.8	3122.9
15°	3090.7	3086.5	3064.7	3095.9	3086.5
17.5°	3046.0	3049.1	3028.3	3049.1	3035.6
20°	3000.2	3003.3	2988.8	2982.5	2981.5
22.5°	2948.2	2946.1	2933.6	2930.5	2940.9
25°	2886.9	2883.7	2864.0	2891.0	2890.0
27.5°	2823.4	2822.4	2802.6	2835.9	2824.5
30°	2753.7	2753.7	2734.0	2762.1	2751.7
32.5°	2679.9	2684.1	2678.9	2684.1	2679.9
35°	2601.9	2602.9	2594.6	2596.7	2592.5
37.5°	2510.4	2516.6	2508.3	2511.4	2506.2
40°	2422.0	2418.9	2417.8	2423.0	2426.2
42.5°	2320.1	2300.3	2319.0	2323.2	2305.5
45°	2210.9	2211.9	2219.2	2213.0	2205.7
47.5°	2103.8	2099.6	2114.2	2100.7	2088.2
50°	1974.8	2005.0	1998.7	1975.9	1981.1
52.5°	1854.2	1877.1	1864.6	1869.8	1855.2
55°	1716.9	1738.8	1737.7	1765.8	1765.8
57.5°	1574.5	1597.3	1592.1	1629.6	1654.5
60°	1432.0	1454.9	1478.8	1502.7	1504.8
62.5°	1281.2	1304.1	1341.5	1362.3	1366.5
65°	1131.4	1146.0	1180.3	1227.1	1203.2
67.5°	975.5	985.9	1033.7	1041.0	773.7
70°	816.3	829.9	889.1	549.1	512.7
72.5°	671.8	677.0	698.8	458.6	420.1
75°	516.8	539.7	360.9	251.7	573.0
77.5°	384.8	402.5	208.0	416.0	405.6
80°	268.3	289.1	142.5	371.3	615.6
82.5°	174.7	135.2	269.3	419.1	435.7
85°	106.1	74.9	289.1	313.0	264.1
87.5°	65.5	57.2	194.5	198.6	184.1
90°	31.2	82.2	121.7	108.2	91.5
92.5°	29.1	58.2	54.1	43.7	40.6
95°	49.9	27.0	20.8	17.7	16.6
97.5°	69.7	17.7	14.6	12.5	12.5
100°	70.7	16.6	14.6	12.5	11.4
102.5°	70.7	17.7	14.6	12.5	11.4
105°	62.4	19.8	14.6	12.5	11.4
107.5°	53.0	21.8	13.5	12.5	11.4
110°	44.7	25.0	13.5	11.4	11.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	35.4	23.9	12.5	10.4	10.4
115°	29.1	21.8	11.4	9.4	9.4
117.5°	23.9	19.8	11.4	9.4	8.3
120°	19.8	17.7	11.4	8.3	8.3
122.5°	16.6	15.6	11.4	7.3	7.3
125°	13.5	11.4	10.4	7.3	7.3
127.5°	11.4	8.3	12.5	7.3	6.2
130°	9.4	7.3	21.8	7.3	7.3
132.5°	7.3	5.2	44.7	9.4	7.3
135°	6.2	4.2	10.4	20.8	10.4
137.5°	5.2	4.2	7.3	64.5	29.1
140°	4.2	3.1	7.3	10.4	40.6
142.5°	3.1	3.1	5.2	7.3	7.3
145°	3.1	3.1	2.1	11.4	8.3
147.5°	3.1	2.1	2.1	12.5	13.5
150°	2.1	2.1	2.1	4.2	7.3
152.5°	2.1	2.1	2.1	2.1	2.1
155°	2.1	3.1	3.1	2.1	1.0
157.5°	2.1	3.1	3.1	2.1	1.0
160°	3.1	3.1	3.1	2.1	1.0
162.5°	3.1	3.1	3.1	2.1	2.1
165°	3.1	3.1	3.1	2.1	2.1
167.5°	3.1	3.1	3.1	2.1	2.1
170°	3.1	3.1	3.1	2.1	2.1
172.5°	3.1	3.1	3.1	2.1	2.1
175°	3.1	3.1	3.1	3.1	2.1
177.5°	3.1	3.1	3.1	3.1	2.1
180°	3.1	3.1	3.1	3.1	3.1

(END OF REPORT)