

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: P236586

Luminaire Tested: **VRVT4LED-LD5-12-DR-UNV-L835-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236586
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-LD5-12-DR-UNV-L835-CD1-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
4 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11662.0 lumens
Efficiency: N/A
Efficacy: 126.0 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

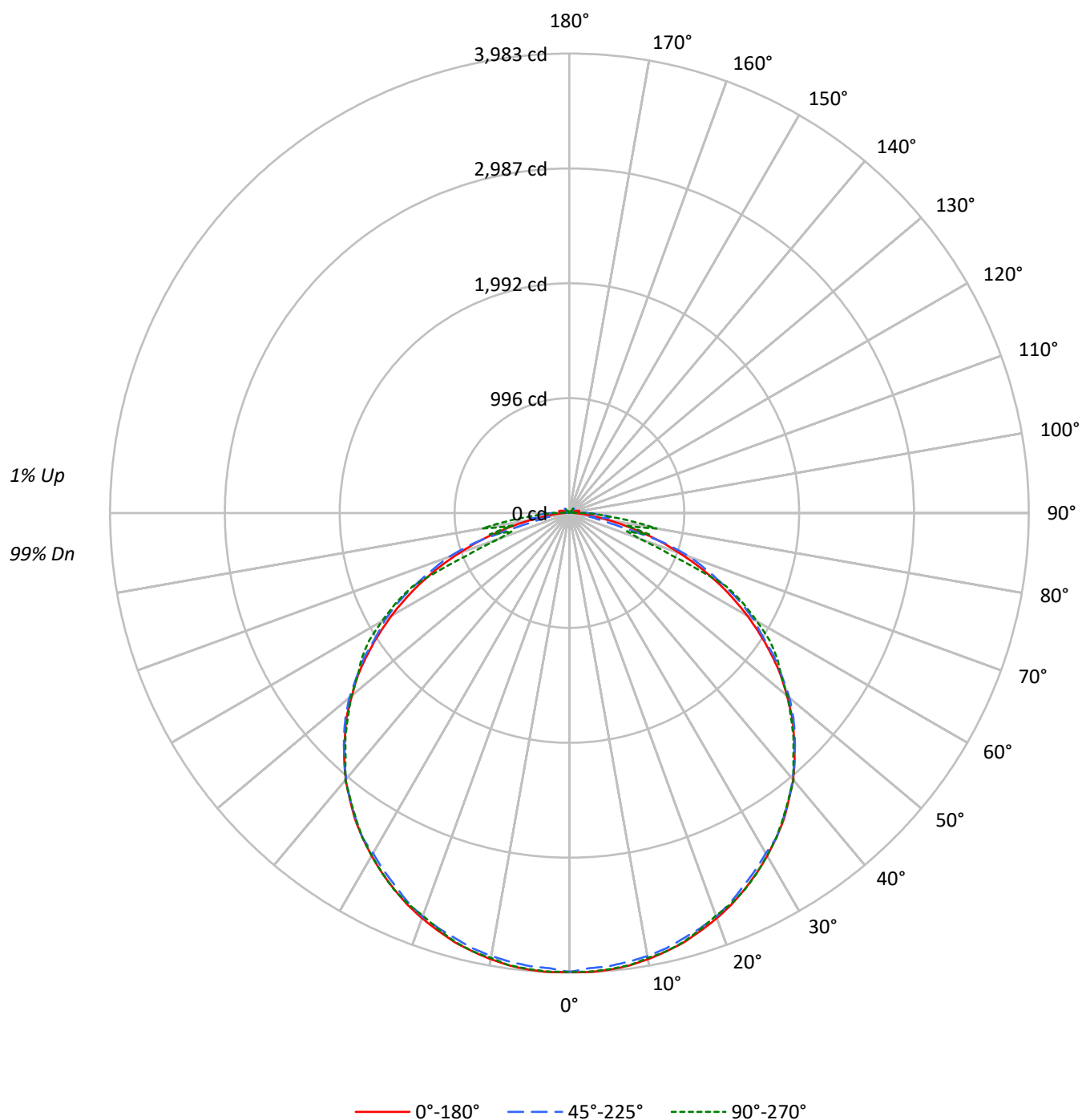
Input Watts (W): 92.53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9962	9962	9962
5°	9938	9732	9776
10°	9882	9560	9557
15°	9825	9367	9369
20°	9748	9212	9105
25°	9667	8972	8949
30°	9587	8774	8708
35°	9508	8604	8455
40°	9388	8358	8226
45°	9199	8077	7850
50°	8941	7742	7478
55°	8597	7252	7154
60°	8088	6746	6634
65°	7393	5986	5865
70°	6385	5121	2819
75°	5082	2426	3644
80°	3588	1161	4686
85°	2243	3018	2526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.8	3.2
10°-20°	1084.0	9.3
20°-30°	1655.5	14.2
30°-40°	2024.9	17.4
40°-50°	2125.1	18.2
50°-60°	1937.3	16.6
60°-70°	1416.8	12.1
70°-80°	622.8	5.3
80°-90°	286.3	2.5
90°-100°	51.4	0.4
100°-110°	27.2	0.2
110°-120°	19.6	0.2
120°-130°	12.0	0.1
130°-140°	14.9	0.1
140°-150°	4.8	0.0
150°-160°	1.4	0.0
160°-170°	1.0	0.0
170°-180°	0.3	0.0
0°-30°	3116.3	26.7
0°-40°	5141.2	44.1
0°-60°	9203.6	78.9
0°-90°	11529.4	98.9
90°-120°	98.3	0.8
90°-150°	129.8	1.1
90°-180°	133.0	1.1
0°-180°	11662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3977	3977	3977	3977	3977	
5°	3973	3968	3942	3969	3969	378
15°	3850	3845	3818	3856	3845	1086
25°	3596	3592	3568	3601	3600	1659
35°	3241	3242	3232	3235	3230	2026
45°	2754	2755	2764	2757	2748	2125
55°	2139	2166	2165	2200	2200	1908
65°	1409	1428	1470	1529	1499	1390
75°	644	672	450	314	714	694
85°	132	93	360	390	329	152
90°	39	102	152	135	114	27
95°	62	34	26	22	21	57
105°	78	25	18	16	14	80
115°	36	27	14	12	12	37
125°	17	14	13	9	9	16
135°	8	5	13	26	13	6
145°	4	4	3	14	10	2
155°	3	4	4	3	1	1
165°	4	4	4	3	3	1
175°	4	4	4	4	3	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3976.9	3976.9	3976.9	3976.9	3976.9
2.5°	3983.4	3978.2	3949.7	3976.9	3978.2
5°	3973.0	3967.9	3942.0	3969.2	3969.2
7.5°	3956.2	3948.4	3922.5	3954.9	3954.9
10°	3926.4	3923.8	3899.2	3921.2	3916.0
12.5°	3890.1	3885.0	3865.5	3887.5	3890.1
15°	3850.0	3844.8	3817.6	3856.5	3844.8
17.5°	3794.3	3798.2	3772.3	3798.2	3781.3
20°	3737.3	3741.2	3723.0	3715.3	3714.0
22.5°	3672.5	3669.9	3654.4	3650.5	3663.4
25°	3596.1	3592.2	3567.6	3601.3	3600.0
27.5°	3517.1	3515.8	3491.1	3532.6	3518.3
30°	3430.3	3430.3	3405.6	3440.6	3427.7
32.5°	3338.3	3343.5	3337.0	3343.5	3338.3
35°	3241.1	3242.4	3232.1	3234.7	3229.5
37.5°	3127.1	3134.9	3124.5	3128.4	3122.0
40°	3017.0	3013.1	3011.8	3018.3	3022.2
42.5°	2890.1	2865.5	2888.8	2894.0	2871.9
45°	2754.1	2755.3	2764.4	2756.6	2747.6
47.5°	2620.6	2615.4	2633.6	2616.7	2601.2
50°	2460.0	2497.6	2489.8	2461.3	2467.8
52.5°	2309.7	2338.2	2322.7	2329.2	2311.0
55°	2138.7	2165.9	2164.6	2199.6	2199.6
57.5°	1961.3	1989.8	1983.3	2029.9	2061.0
60°	1783.8	1812.3	1842.1	1871.9	1874.5
62.5°	1596.0	1624.5	1671.1	1697.0	1702.2
65°	1409.4	1427.5	1470.3	1528.6	1498.8
67.5°	1215.1	1228.1	1287.6	1296.7	963.8
70°	1016.9	1033.7	1107.6	684.0	638.6
72.5°	836.8	843.3	870.5	571.3	523.3
75°	643.8	672.3	449.5	313.5	713.8
77.5°	479.3	501.3	259.1	518.2	505.2
80°	334.2	360.1	177.5	462.5	766.9
82.5°	217.6	168.4	335.5	522.1	542.8
85°	132.1	93.3	360.1	389.9	329.0
87.5°	81.6	71.2	242.2	247.4	229.3
90°	38.9	102.3	151.6	134.7	114.0
92.5°	36.3	72.5	67.4	54.4	50.5
95°	62.2	33.7	25.9	22.0	20.7
97.5°	86.8	22.0	18.1	15.5	15.5
100°	88.1	20.7	18.1	15.5	14.2
102.5°	88.1	22.0	18.1	15.5	14.2
105°	77.7	24.6	18.1	15.5	14.2
107.5°	66.1	27.2	16.8	15.5	14.2
110°	55.7	31.1	16.8	14.2	14.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	44.0	29.8	15.5	13.0	13.0
115°	36.3	27.2	14.2	11.7	11.7
117.5°	29.8	24.6	14.2	11.7	10.4
120°	24.6	22.0	14.2	10.4	10.4
122.5°	20.7	19.4	14.2	9.1	9.1
125°	16.8	14.2	13.0	9.1	9.1
127.5°	14.2	10.4	15.5	9.1	7.8
130°	11.7	9.1	27.2	9.1	9.1
132.5°	9.1	6.5	55.7	11.7	9.1
135°	7.8	5.2	13.0	25.9	13.0
137.5°	6.5	5.2	9.1	80.3	36.3
140°	5.2	3.9	9.1	13.0	50.5
142.5°	3.9	3.9	6.5	9.1	9.1
145°	3.9	3.9	2.6	14.2	10.4
147.5°	3.9	2.6	2.6	15.5	16.8
150°	2.6	2.6	2.6	5.2	9.1
152.5°	2.6	2.6	2.6	2.6	2.6
155°	2.6	3.9	3.9	2.6	1.3
157.5°	2.6	3.9	3.9	2.6	1.3
160°	3.9	3.9	3.9	2.6	1.3
162.5°	3.9	3.9	3.9	2.6	2.6
165°	3.9	3.9	3.9	2.6	2.6
167.5°	3.9	3.9	3.9	2.6	2.6
170°	3.9	3.9	3.9	2.6	2.6
172.5°	3.9	3.9	3.9	2.6	2.6
175°	3.9	3.9	3.9	3.9	2.6
177.5°	3.9	3.9	3.9	3.9	2.6
180°	3.9	3.9	3.9	3.9	3.9

(END OF REPORT)