

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: P236588

Luminaire Tested: **VRVT4LED-LD5-12-DR-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236588
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-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: 12375.9 lumens
Efficiency: N/A
Efficacy: 133.8 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

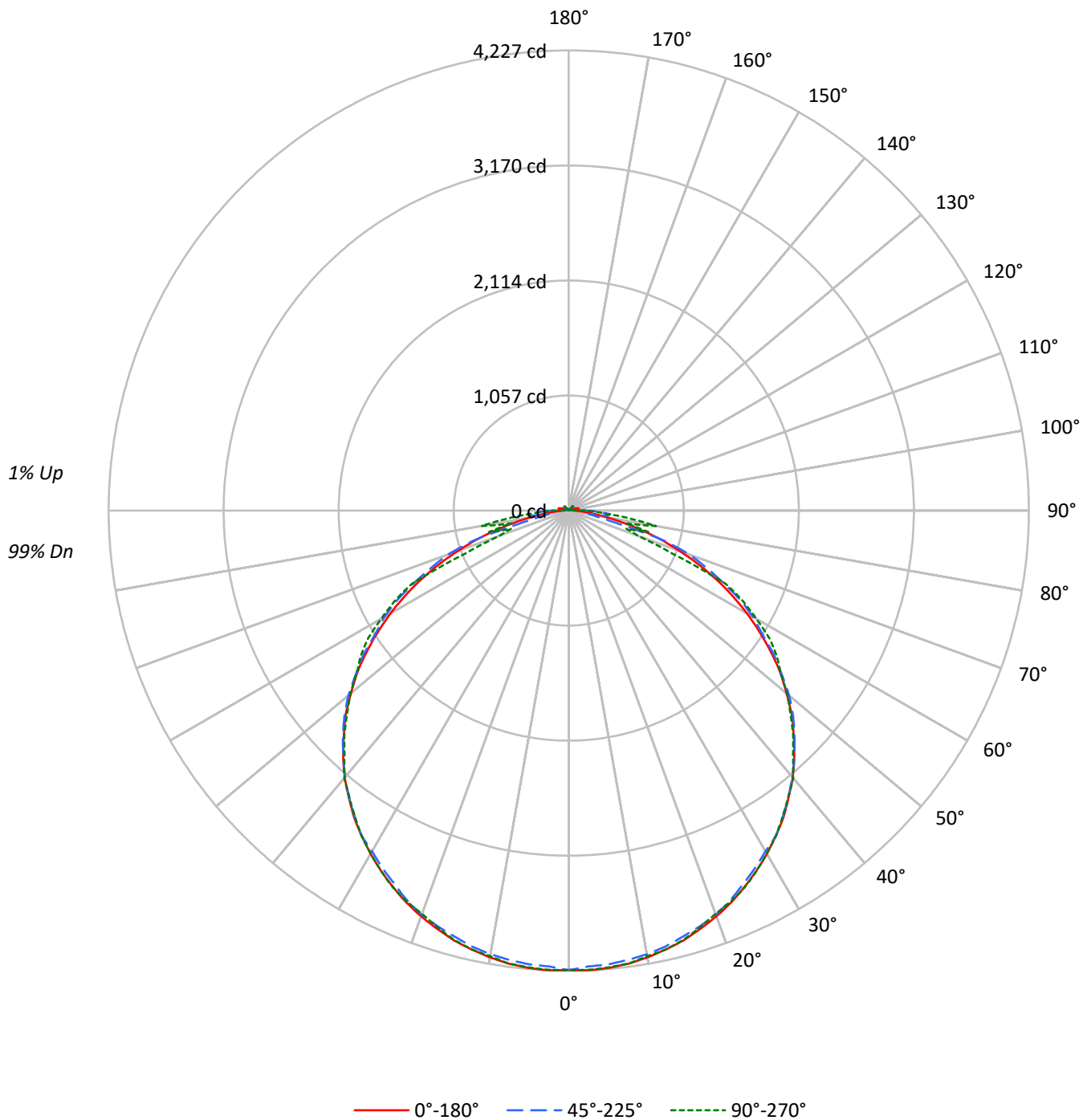
Input Watts (W): 92.53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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		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°	10572	10572	10572
5°	10546	10327	10374
10°	10487	10145	10142
15°	10427	9941	9942
20°	10345	9776	9663
25°	10258	9521	9497
30°	10174	9312	9241
35°	10090	9130	8973
40°	9963	8870	8730
45°	9763	8571	8330
50°	9489	8216	7936
55°	9123	7696	7593
60°	8583	7159	7040
65°	7846	6353	6225
70°	6776	5435	2991
75°	5393	2574	3868
80°	3808	1232	4972
85°	2381	3203	2681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.9	3.2
10°-20°	1150.3	9.3
20°-30°	1756.8	14.2
30°-40°	2148.9	17.4
40°-50°	2255.2	18.2
50°-60°	2055.9	16.6
60°-70°	1503.5	12.1
70°-80°	660.9	5.3
80°-90°	303.8	2.5
90°-100°	54.6	0.4
100°-110°	28.9	0.2
110°-120°	20.8	0.2
120°-130°	12.7	0.1
130°-140°	15.7	0.1
140°-150°	5.0	0.0
150°-160°	1.5	0.0
160°-170°	1.0	0.0
170°-180°	0.4	0.0
0°-30°	3307.0	26.7
0°-40°	5455.9	44.1
0°-60°	9767.0	78.9
0°-90°	12235.3	98.9
90°-120°	104.3	0.8
90°-150°	137.8	1.1
90°-180°	141.0	1.1
0°-180°	12375.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4220	4220	4220	4220	4220	
5°	4216	4211	4183	4212	4212	401
15°	4086	4080	4051	4093	4080	1153
25°	3816	3812	3786	3822	3820	1760
35°	3440	3441	3430	3433	3427	2150
45°	2923	2924	2934	2925	2916	2255
55°	2270	2298	2297	2334	2334	2024
65°	1496	1515	1560	1622	1591	1475
75°	683	714	477	333	758	737
85°	140	99	382	414	349	161
90°	41	109	161	143	121	28
95°	66	36	28	23	22	61
105°	82	26	19	16	15	85
115°	38	29	15	12	12	40
125°	18	15	14	10	10	17
135°	8	6	14	28	14	7
145°	4	4	3	15	11	3
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	



TEST NUMBER: P236588

CATALOG NUMBER: VRVT4LED-LD5-12-DR-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4220.4	4220.4	4220.4	4220.4	4220.4
2.5°	4227.3	4221.8	4191.5	4220.4	4221.8
5°	4216.3	4210.8	4183.3	4212.2	4212.2
7.5°	4198.4	4190.2	4162.7	4197.0	4197.0
10°	4166.8	4164.0	4137.9	4161.3	4155.8
12.5°	4128.3	4122.8	4102.2	4125.6	4128.3
15°	4085.7	4080.2	4051.3	4092.6	4080.2
17.5°	4026.6	4030.7	4003.2	4030.7	4012.8
20°	3966.1	3970.2	3951.0	3942.7	3941.3
22.5°	3897.4	3894.6	3878.1	3874.0	3887.7
25°	3816.2	3812.1	3786.0	3821.7	3820.4
27.5°	3732.4	3731.0	3704.9	3748.9	3733.8
30°	3640.3	3640.3	3614.2	3651.3	3637.5
32.5°	3542.7	3548.2	3541.3	3548.2	3542.7
35°	3439.6	3440.9	3429.9	3432.7	3427.2
37.5°	3318.6	3326.8	3315.8	3320.0	3313.1
40°	3201.7	3197.6	3196.2	3203.1	3207.2
42.5°	3067.0	3040.9	3065.6	3071.1	3047.8
45°	2922.7	2924.0	2933.7	2925.4	2915.8
47.5°	2781.1	2775.6	2794.8	2776.9	2760.5
50°	2610.6	2650.5	2642.2	2612.0	2618.9
52.5°	2451.1	2481.4	2464.9	2471.8	2452.5
55°	2269.7	2298.5	2297.2	2334.3	2334.3
57.5°	2081.3	2111.6	2104.7	2154.2	2187.2
60°	1893.0	1923.2	1954.9	1986.5	1989.2
62.5°	1693.7	1723.9	1773.4	1800.9	1806.4
65°	1495.7	1514.9	1560.3	1622.2	1590.6
67.5°	1289.5	1303.2	1366.5	1376.1	1022.8
70°	1079.2	1097.0	1175.4	725.9	677.7
72.5°	888.1	894.9	923.8	606.3	555.4
75°	683.2	713.5	477.0	332.7	757.5
77.5°	508.6	532.0	274.9	549.9	536.1
80°	354.7	382.2	188.3	490.8	813.8
82.5°	231.0	178.7	356.1	554.0	576.0
85°	140.2	99.0	382.2	413.8	349.2
87.5°	86.6	75.6	257.1	262.6	243.3
90°	41.2	108.6	160.8	143.0	121.0
92.5°	38.5	77.0	71.5	57.7	53.6
95°	66.0	35.7	27.5	23.4	22.0
97.5°	92.1	23.4	19.2	16.5	16.5
100°	93.5	22.0	19.2	16.5	15.1
102.5°	93.5	23.4	19.2	16.5	15.1
105°	82.5	26.1	19.2	16.5	15.1
107.5°	70.1	28.9	17.9	16.5	15.1
110°	59.1	33.0	17.9	15.1	15.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.7	31.6	16.5	13.7	13.7
115°	38.5	28.9	15.1	12.4	12.4
117.5°	31.6	26.1	15.1	12.4	11.0
120°	26.1	23.4	15.1	11.0	11.0
122.5°	22.0	20.6	15.1	9.6	9.6
125°	17.9	15.1	13.7	9.6	9.6
127.5°	15.1	11.0	16.5	9.6	8.2
130°	12.4	9.6	28.9	9.6	9.6
132.5°	9.6	6.9	59.1	12.4	9.6
135°	8.2	5.5	13.7	27.5	13.7
137.5°	6.9	5.5	9.6	85.2	38.5
140°	5.5	4.1	9.6	13.7	53.6
142.5°	4.1	4.1	6.9	9.6	9.6
145°	4.1	4.1	2.7	15.1	11.0
147.5°	4.1	2.7	2.7	16.5	17.9
150°	2.7	2.7	2.7	5.5	9.6
152.5°	2.7	2.7	2.7	2.7	2.7
155°	2.7	4.1	4.1	2.7	1.4
157.5°	2.7	4.1	4.1	2.7	1.4
160°	4.1	4.1	4.1	2.7	1.4
162.5°	4.1	4.1	4.1	2.7	2.7
165°	4.1	4.1	4.1	2.7	2.7
167.5°	4.1	4.1	4.1	2.7	2.7
170°	4.1	4.1	4.1	2.7	2.7
172.5°	4.1	4.1	4.1	2.7	2.7
175°	4.1	4.1	4.1	4.1	2.7
177.5°	4.1	4.1	4.1	4.1	2.7
180°	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)