

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: P236603

Luminaire Tested: **VRVT4LED-LD5-15-DR-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-15-DR-UNV-L850-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
6 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (336) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15838.0 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

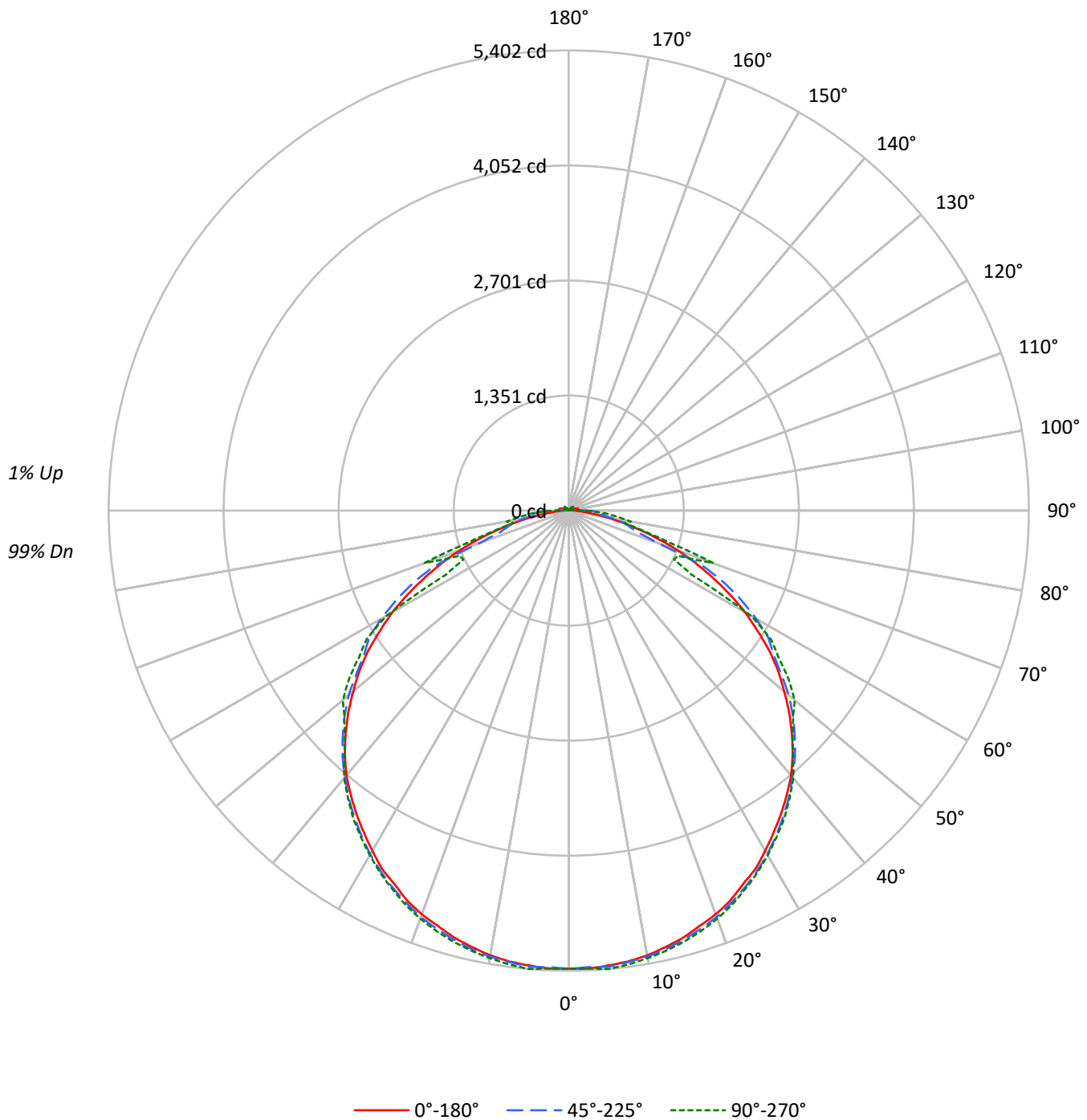
Input Watts (W): 112.42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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		105	105	105		101	101	101
1	108	104	99	95	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	53		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	35	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°	13469	13469	13469
5°	13408	13269	13304
10°	13344	13033	13023
15°	13244	12795	12765
20°	13156	12561	12499
25°	13008	12290	12187
30°	12888	12007	11872
35°	12747	11680	11545
40°	12632	11337	11162
45°	12371	10966	10617
50°	12002	10491	10489
55°	11563	9812	9783
60°	10851	9300	8738
65°	9782	8248	5340
70°	8502	5093	7951
75°	6698	4025	4482
80°	4779	3517	4524
85°	3002	3556	3561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.4	3.2
10°-20°	1474.2	9.3
20°-30°	2253.4	14.2
30°-40°	2747.9	17.4
40°-50°	2886.3	18.2
50°-60°	2646.0	16.7
60°-70°	1808.1	11.4
70°-80°	946.8	6.0
80°-90°	370.6	2.3
90°-100°	77.0	0.5
100°-110°	40.3	0.3
110°-120°	28.7	0.2
120°-130°	20.5	0.1
130°-140°	18.1	0.1
140°-150°	5.6	0.0
150°-160°	1.6	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	4239.0	26.8
0°-40°	6986.9	44.1
0°-60°	12519.2	79.0
0°-90°	15644.7	98.8
90°-120°	146.0	0.9
90°-150°	190.1	1.2
90°-180°	193.0	1.2
0°-180°	15838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5377	5377	5377	5377	5377	
5°	5360	5376	5375	5390	5402	510
15°	5190	5217	5215	5234	5238	1465
25°	4839	4883	4887	4905	4903	2235
35°	4345	4396	4388	4408	4410	2720
45°	3704	3759	3753	3734	3716	2854
55°	2877	2932	2929	3037	3008	2560
65°	1865	1950	2026	1377	1364	1849
75°	849	924	746	844	878	916
85°	177	148	424	563	464	202
90°	53	130	215	178	181	36
95°	82	53	46	41	38	74
105°	96	44	27	24	22	100
115°	45	37	24	21	21	47
125°	21	18	46	15	14	20
135°	9	7	40	19	33	8
145°	4	4	4	6	7	3
155°	4	4	4	3	2	2
165°	4	4	5	3	2	1
175°	5	5	5	4	3	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5376.8	5376.8	5376.8	5376.8	5376.8
2.5°	5381.0	5386.2	5364.4	5374.8	5380.0
5°	5360.2	5375.8	5374.8	5390.4	5401.8
7.5°	5338.4	5341.5	5345.6	5368.5	5372.7
10°	5302.0	5325.9	5315.5	5336.3	5336.3
12.5°	5247.9	5274.9	5272.8	5291.6	5291.6
15°	5189.6	5216.7	5214.6	5234.4	5238.5
17.5°	5111.6	5150.1	5148.0	5173.0	5173.0
20°	5044.0	5073.2	5076.3	5097.1	5098.1
22.5°	4955.6	4987.9	4984.8	5006.6	5008.7
25°	4839.2	4882.8	4887.0	4904.7	4902.6
27.5°	4744.5	4773.6	4776.8	4791.3	4794.4
30°	4611.4	4657.2	4660.3	4671.7	4672.8
32.5°	4479.3	4532.4	4527.2	4544.8	4541.7
35°	4345.2	4396.1	4387.8	4407.6	4409.6
37.5°	4204.8	4249.5	4245.3	4263.0	4256.8
40°	4059.2	4093.5	4085.2	4096.6	4100.8
42.5°	3889.6	3930.2	3930.2	3928.1	3895.9
45°	3703.5	3758.6	3753.4	3733.6	3716.0
47.5°	3510.0	3567.2	3569.3	3543.3	3572.4
50°	3302.0	3374.8	3373.8	3374.8	3461.2
52.5°	3100.3	3163.7	3136.7	3268.7	3252.1
55°	2876.7	2931.8	2928.7	3036.8	3007.7
57.5°	2626.0	2692.6	2775.8	2796.6	2816.3
60°	2393.1	2454.4	2539.7	2574.0	2469.0
62.5°	2131.0	2195.5	2287.0	2170.5	1614.1
65°	1864.7	1950.0	2025.9	1377.0	1364.5
67.5°	1609.9	1673.4	1707.7	1212.7	1383.2
70°	1354.1	1406.1	1101.4	1280.3	1801.3
72.5°	1100.3	1170.0	836.2	1485.1	1216.8
75°	848.6	923.5	745.7	844.5	877.8
77.5°	629.2	659.4	656.2	654.2	665.6
80°	445.1	373.4	537.7	588.6	740.5
82.5°	290.2	240.2	381.7	552.2	583.4
85°	176.8	147.7	424.3	562.6	463.8
87.5°	109.2	142.5	329.7	331.8	299.5
90°	53.0	130.0	215.3	177.8	181.0
92.5°	47.8	97.8	109.2	87.4	86.3
95°	82.2	53.0	45.8	40.6	38.5
97.5°	110.2	33.3	29.1	30.2	30.2
100°	114.4	32.2	28.1	31.2	33.3
102.5°	109.2	35.4	27.0	25.0	22.9
105°	95.7	43.7	27.0	23.9	21.8
107.5°	82.2	46.8	27.0	23.9	22.9
110°	67.6	45.8	26.0	22.9	21.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.1	41.6	25.0	22.9	21.8
115°	44.7	37.4	23.9	20.8	20.8
117.5°	37.4	34.3	22.9	17.7	17.7
120°	31.2	31.2	21.8	15.6	15.6
122.5°	25.0	23.9	23.9	14.6	14.6
125°	20.8	17.7	45.8	14.6	13.5
127.5°	17.7	13.5	45.8	18.7	13.5
130°	14.6	11.4	21.8	47.8	20.8
132.5°	11.4	9.4	27.0	58.2	66.6
135°	9.4	7.3	39.5	18.7	33.3
137.5°	7.3	6.2	11.4	26.0	16.6
140°	6.2	5.2	6.2	57.2	34.3
142.5°	5.2	4.2	5.2	12.5	44.7
145°	4.2	4.2	4.2	6.2	7.3
147.5°	4.2	4.2	4.2	5.2	4.2
150°	4.2	3.1	4.2	3.1	3.1
152.5°	3.1	4.2	4.2	2.1	2.1
155°	4.2	4.2	4.2	3.1	2.1
157.5°	4.2	4.2	4.2	3.1	2.1
160°	4.2	4.2	4.2	3.1	2.1
162.5°	4.2	4.2	4.2	3.1	2.1
165°	4.2	4.2	5.2	3.1	2.1
167.5°	4.2	5.2	5.2	4.2	2.1
170°	4.2	5.2	5.2	4.2	3.1
172.5°	4.2	5.2	5.2	4.2	3.1
175°	5.2	5.2	5.2	4.2	3.1
177.5°	5.2	5.2	5.2	4.2	3.1
180°	4.2	4.2	4.2	4.2	4.2

(END OF REPORT)