

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: P236608

Luminaire Tested: **VRVT4LED-LD5-15-PC-UNV-L840-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-15-PC-UNV-L840-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
6 BOARDS WITH CLEAR POLY CARBONATE LENS
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14900.1 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

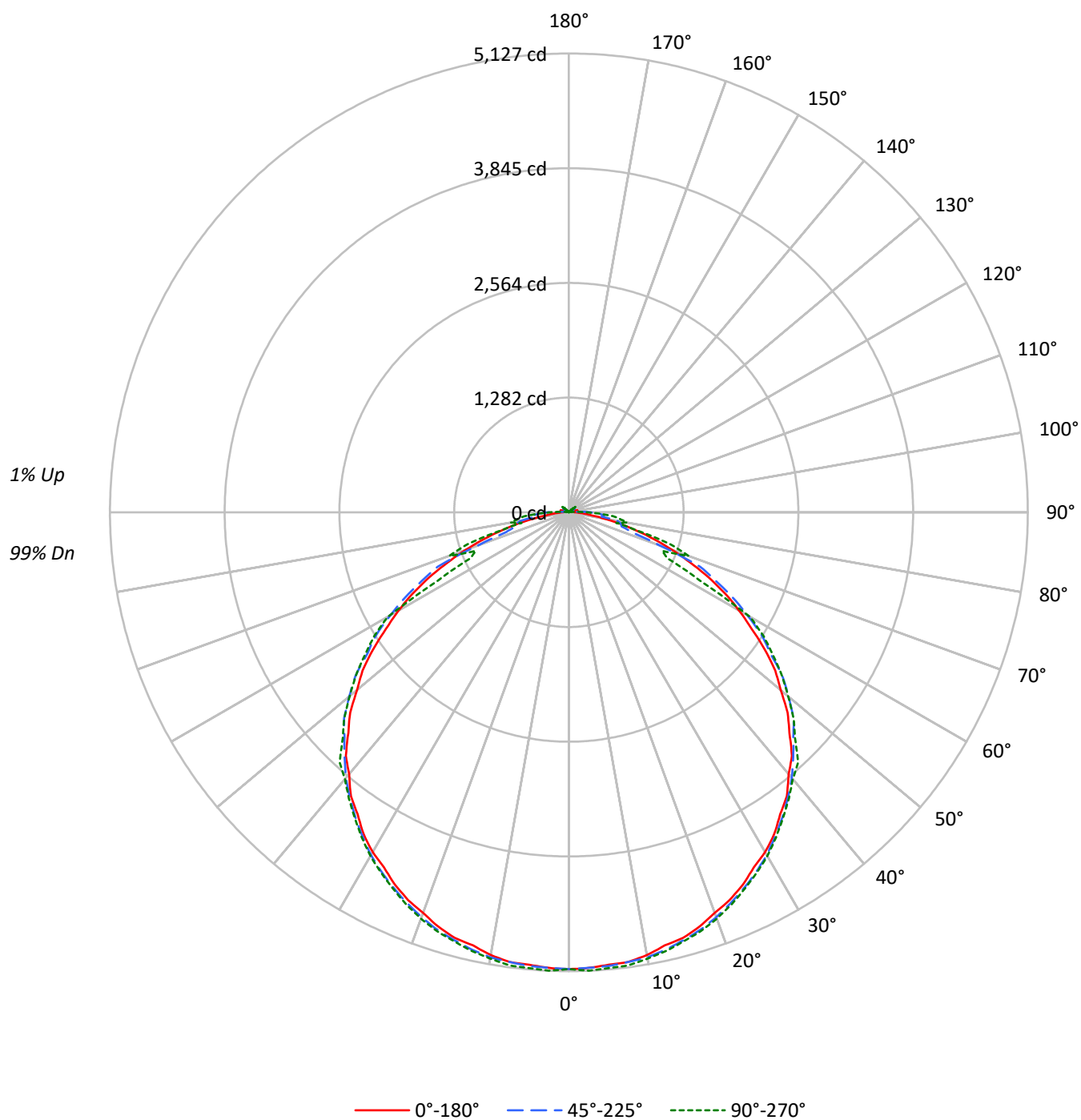
Input Watts (W): 112.45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P236608

CATALOG NUMBER: VRVT4LED-LD5-15-PC-UNV-L840-CD2-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P236608

CATALOG NUMBER: VRVT4LED-LD5-15-PC-UNV-L840-CD2-WL-U

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	96	106	101	97	94		97	94	91		93	90	88		89	87	85
2	99	91	84	78	96	89	82	77		85	79	75		81	77	73		78	74	71
3	90	80	71	65	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	71	62	55	80	69	61	55		66	59	54		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		55	50	45
6	70	57	48	41	68	56	47	41		54	46	41		52	45	40		50	44	40
7	65	51	43	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	31
9	56	43	35	29	55	42	34	29		41	34	29		40	33	29		39	33	28
10	53	40	32	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12785	12785	12785
5°	12694	12560	12587
10°	12644	12381	12356
15°	12563	12141	12088
20°	12423	11911	11846
25°	12349	11648	11544
30°	12252	11387	11265
35°	12074	11068	10915
40°	11884	10748	10591
45°	11637	10360	10202
50°	11223	9959	9688
55°	10744	9200	9058
60°	9952	8433	8256
65°	9033	7369	4735
70°	7710	4975	6272
75°	6054	3287	4039
80°	4198	3617	4020
85°	2870	3319	3809



TEST NUMBER: P236608

CATALOG NUMBER: VRVT4LED-LD5-15-PC-UNV-L840-CD2-WL-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.1	3.3
10°-20°	1398.5	9.4
20°-30°	2136.1	14.3
30°-40°	2606.0	17.5
40°-50°	2739.6	18.4
50°-60°	2456.8	16.5
60°-70°	1646.1	11.0
70°-80°	846.9	5.7
80°-90°	366.6	2.5
90°-100°	89.5	0.6
100°-110°	38.4	0.3
110°-120°	27.2	0.2
120°-130°	32.7	0.2
130°-140°	23.4	0.2
140°-150°	4.3	0.0
150°-160°	1.6	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	4019.8	27.0
0°-40°	6625.7	44.5
0°-60°	11822.0	79.3
0°-90°	14681.6	98.5
90°-120°	155.1	1.0
90°-150°	215.5	1.4
90°-180°	219.0	1.5
0°-180°	14900.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5104	5104	5104	5104	5104	
5°	5075	5091	5088	5108	5111	483
15°	4923	4960	4948	4969	4961	1387
25°	4594	4630	4632	4648	4644	2116
35°	4116	4171	4158	4172	4169	2582
45°	3484	3558	3546	3594	3571	2691
55°	2673	2723	2746	2782	2785	2378
65°	1722	1768	1810	1278	1210	1698
75°	767	793	609	805	791	828
85°	169	139	396	535	496	184
90°	67	134	241	216	206	41
95°	71	71	64	56	49	65
105°	87	47	26	22	20	90
115°	46	42	22	15	14	47
125°	23	20	56	32	15	21
135°	10	8	21	58	34	8
145°	5	4	4	5	6	3
155°	4	4	4	2	1	2
165°	4	4	5	3	2	1
175°	5	5	5	3	3	0
180°	4	4	4	4	4	



TEST NUMBER: P236608

CATALOG NUMBER: VRVT4LED-LD5-15-PC-UNV-L840-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5103.8	5103.8	5103.8	5103.8	5103.8
2.5°	5095.8	5102.8	5094.8	5118.8	5126.8
5°	5074.8	5090.8	5087.8	5107.8	5110.8
7.5°	5067.9	5070.9	5067.9	5101.8	5105.8
10°	5023.9	5048.9	5049.9	5063.9	5062.9
12.5°	4955.9	4991.9	5004.9	5018.9	5020.9
15°	4922.9	4959.9	4947.9	4968.9	4960.9
17.5°	4853.9	4895.9	4889.9	4901.9	4905.9
20°	4762.9	4825.9	4813.9	4825.9	4831.9
22.5°	4689.9	4736.9	4724.9	4741.9	4742.9
25°	4593.9	4629.9	4631.9	4647.9	4643.9
27.5°	4472.9	4527.9	4530.9	4538.9	4541.9
30°	4383.9	4425.9	4419.9	4426.9	4433.9
32.5°	4266.9	4311.9	4291.9	4309.9	4305.9
35°	4115.9	4170.9	4157.9	4171.9	4168.9
37.5°	3998.9	4030.9	4019.9	4042.9	4034.9
40°	3818.9	3880.9	3872.9	3888.9	3890.9
42.5°	3687.9	3721.9	3708.9	3754.9	3790.9
45°	3483.9	3557.9	3545.9	3593.9	3570.9
47.5°	3313.9	3358.9	3405.9	3372.9	3403.9
50°	3087.9	3157.9	3202.9	3210.9	3196.9
52.5°	2904.9	2945.9	3007.9	2991.9	3000.9
55°	2672.9	2722.9	2745.9	2781.9	2784.9
57.5°	2419.9	2498.9	2554.9	2579.9	2579.9
60°	2194.9	2245.9	2302.9	2347.9	2332.9
62.5°	1969.9	2013.9	2064.9	2062.9	1647.0
65°	1721.9	1767.9	1809.9	1278.0	1210.0
67.5°	1466.0	1511.0	1585.0	1069.0	1125.0
70°	1228.0	1244.0	1076.0	1035.0	1421.0
72.5°	992.0	1022.0	735.0	1273.0	1190.0
75°	767.0	793.0	609.0	805.0	791.0
77.5°	575.0	598.0	596.0	683.0	540.0
80°	391.0	309.0	553.0	556.0	658.0
82.5°	256.0	226.0	369.0	588.0	576.0
85°	169.0	139.0	396.0	535.0	496.0
87.5°	109.0	127.0	336.0	356.0	342.0
90°	67.0	134.0	241.0	216.0	206.0
92.5°	55.0	110.0	135.0	123.0	106.0
95°	71.0	71.0	64.0	56.0	49.0
97.5°	90.0	42.0	35.0	33.0	32.0
100°	97.0	38.0	28.0	26.0	24.0
102.5°	95.0	43.0	27.0	24.0	23.0
105°	87.0	47.0	26.0	22.0	20.0
107.5°	76.0	47.0	25.0	20.0	19.0
110°	65.0	45.0	23.0	18.0	17.0



TEST NUMBER: P236608

CATALOG NUMBER: VRVT4LED-LD5-15-PC-UNV-L840-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.0	42.0	22.0	17.0	16.0
115°	46.0	42.0	22.0	15.0	14.0
117.5°	39.0	40.0	22.0	13.0	12.0
120°	33.0	31.0	30.0	12.0	11.0
122.5°	27.0	26.0	75.0	14.0	11.0
125°	23.0	20.0	56.0	32.0	15.0
127.5°	19.0	15.0	31.0	101.0	65.0
130°	15.0	12.0	47.0	63.0	95.0
132.5°	13.0	10.0	50.0	30.0	48.0
135°	10.0	8.0	21.0	58.0	34.0
137.5°	8.0	7.0	9.0	69.0	76.0
140°	6.0	6.0	6.0	28.0	55.0
142.5°	5.0	5.0	5.0	8.0	18.0
145°	5.0	4.0	4.0	5.0	6.0
147.5°	4.0	4.0	4.0	4.0	4.0
150°	4.0	4.0	4.0	4.0	4.0
152.5°	3.0	4.0	4.0	2.0	3.0
155°	4.0	4.0	4.0	2.0	1.0
157.5°	4.0	4.0	4.0	2.0	2.0
160°	4.0	4.0	4.0	3.0	2.0
162.5°	4.0	4.0	4.0	3.0	2.0
165°	4.0	4.0	5.0	3.0	2.0
167.5°	4.0	5.0	5.0	3.0	2.0
170°	4.0	5.0	5.0	3.0	2.0
172.5°	4.0	5.0	5.0	3.0	2.0
175°	5.0	5.0	5.0	3.0	3.0
177.5°	5.0	5.0	5.0	3.0	3.0
180°	4.0	4.0	4.0	4.0	4.0

(END OF REPORT)