

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: P236605

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-15-DRF-UNV-L840-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
6 BOARDS WITH FROSTED ACYLIC LENS
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14834.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

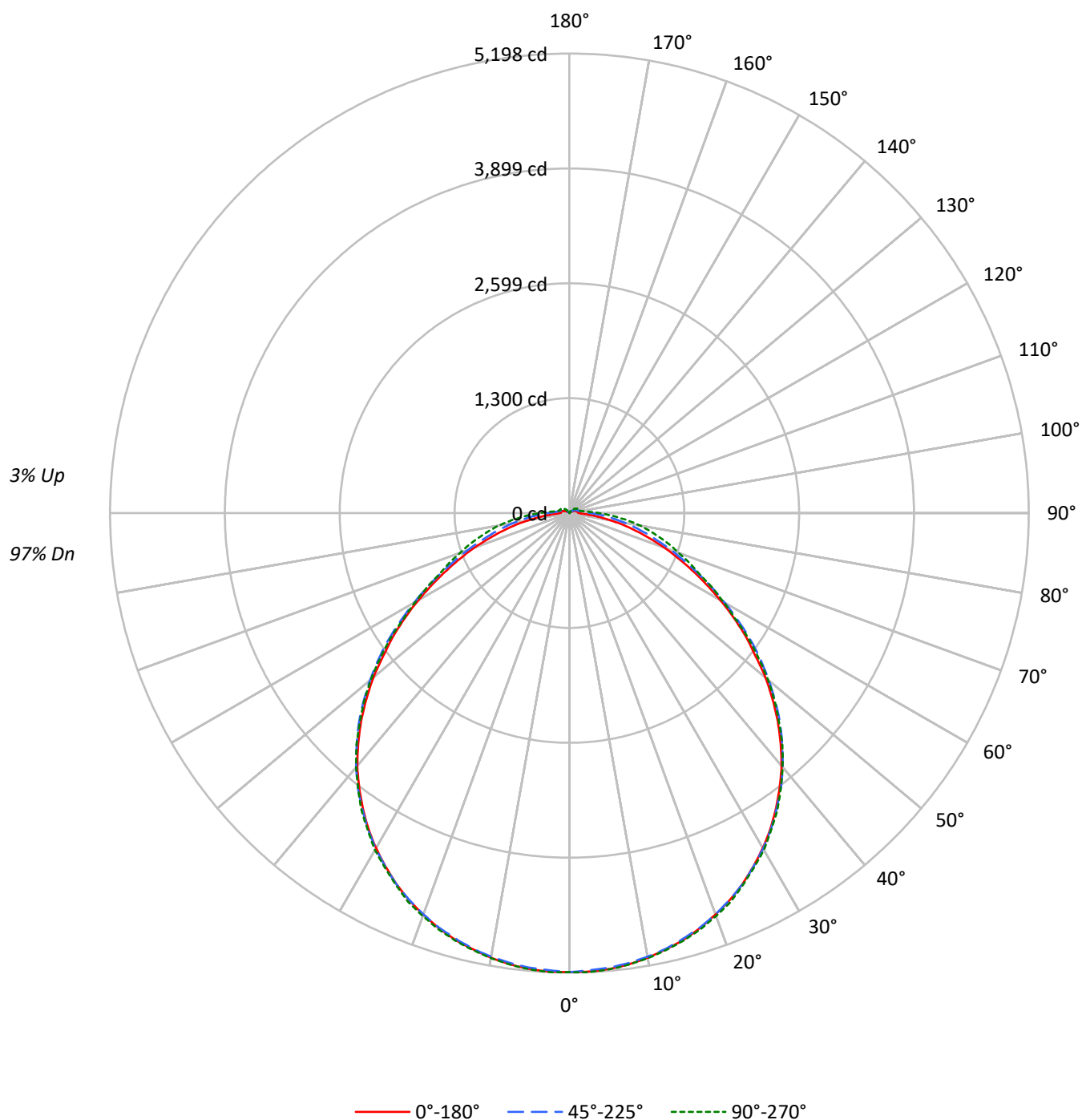
Input Watts (W): 112.42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115		109	109	109		104	104	104		99	99	99
1	108	103	99	95	105	100	96	93		96	92	89		91	88	86		87	85	83
2	98	90	83	77	95	88	81	76		84	78	74		80	76	72		76	73	70
3	90	79	71	64	87	77	70	64		74	67	62		71	65	61		68	63	59
4	82	70	61	55	80	69	60	54		66	59	53		63	57	52		61	55	51
5	76	63	54	47	73	61	53	47		59	52	46		57	50	45		55	49	44
6	70	57	48	41	68	55	47	41		53	46	40		51	45	40		50	44	39
7	65	51	43	36	63	50	42	36		49	41	36		47	40	35		45	39	35
8	60	47	38	33	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	29		38	33	28
10	53	40	32	27	51	39	32	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13009	13009	13009
5°	12950	12744	12761
10°	12856	12495	12476
15°	12753	12227	12196
20°	12604	11954	11893
25°	12446	11651	11542
30°	12230	11293	11179
35°	11955	10877	10742
40°	11620	10424	10213
45°	11133	9852	9583
50°	10534	9161	8889
55°	9792	8379	8044
60°	8946	7434	7124
65°	8026	6494	6324
70°	7177	5641	5800
75°	6188	4874	5381
80°	5003	4180	4943
85°	3702	3444	4200



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.8	3.3
10°-20°	1410.1	9.5
20°-30°	2136.6	14.4
30°-40°	2558.3	17.2
40°-50°	2589.4	17.5
50°-60°	2212.0	14.9
60°-70°	1584.2	10.7
70°-80°	973.6	6.6
80°-90°	447.7	3.0
90°-100°	169.9	1.1
100°-110°	105.8	0.7
110°-120°	77.4	0.5
120°-130°	47.4	0.3
130°-140°	21.9	0.1
140°-150°	5.9	0.0
150°-160°	1.1	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	4038.5	27.2
0°-40°	6596.7	44.5
0°-60°	11398.1	76.8
0°-90°	14403.7	97.1
90°-120°	353.0	2.4
90°-150°	428.2	2.9
90°-180°	430.0	2.9
0°-180°	14834.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5193	5193	5193	5193	5193	
5°	5177	5178	5162	5178	5181	492
15°	4997	5002	4983	5002	5005	1409
25°	4630	4635	4633	4647	4643	2132
35°	4075	4099	4086	4102	4103	2548
45°	3333	3358	3372	3374	3354	2567
55°	2436	2467	2501	2476	2473	2174
65°	1530	1566	1595	1613	1616	1523
75°	784	818	903	1024	1054	835
85°	218	269	411	524	547	232
90°	104	133	240	317	333	61
95°	96	101	153	187	192	78
105°	82	77	104	116	117	86
115°	51	50	82	102	107	51
125°	26	21	53	79	87	24
135°	12	10	22	46	55	10
145°	6	4	2	14	20	4
155°	4	4	2	1	0	2
165°	4	4	3	1	1	1
175°	5	4	3	2	2	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5193.1	5193.1	5193.1	5193.1	5193.1
2.5°	5192.1	5193.1	5176.1	5192.1	5198.1
5°	5177.1	5178.1	5162.1	5178.1	5181.1
7.5°	5149.1	5150.1	5134.1	5151.1	5153.1
10°	5108.1	5112.1	5096.1	5111.1	5112.1
12.5°	5054.1	5061.1	5047.1	5063.1	5062.1
15°	4997.1	5002.1	4983.1	5002.1	5005.1
17.5°	4920.1	4923.1	4914.1	4933.1	4935.1
20°	4832.1	4836.1	4831.1	4850.1	4851.1
22.5°	4740.1	4742.1	4736.1	4754.1	4763.1
25°	4630.1	4635.1	4633.1	4647.1	4643.1
27.5°	4507.1	4519.1	4510.1	4528.1	4521.1
30°	4376.1	4391.1	4383.1	4399.1	4400.1
32.5°	4233.1	4245.1	4242.1	4253.1	4249.1
35°	4075.1	4099.1	4086.1	4102.1	4103.1
37.5°	3909.1	3931.1	3929.1	3938.1	3928.1
40°	3734.1	3749.1	3756.1	3755.1	3752.1
42.5°	3538.1	3567.1	3565.1	3566.1	3567.1
45°	3333.1	3358.1	3372.1	3374.1	3354.1
47.5°	3116.1	3149.1	3163.1	3163.1	3151.1
50°	2898.1	2929.1	2946.1	2940.1	2933.1
52.5°	2652.1	2709.1	2726.1	2715.1	2699.1
55°	2436.0	2467.0	2501.0	2476.0	2473.0
57.5°	2204.0	2242.0	2263.0	2253.0	2224.0
60°	1973.0	2008.0	2030.0	2025.0	2013.0
62.5°	1744.0	1786.0	1810.0	1804.0	1813.0
65°	1530.0	1566.0	1595.0	1613.0	1616.0
67.5°	1328.0	1365.0	1399.0	1444.0	1467.0
70°	1143.0	1171.0	1220.0	1295.0	1314.0
72.5°	955.0	990.0	1050.0	1153.0	1188.0
75°	784.0	818.0	903.0	1024.0	1054.0
77.5°	624.0	656.0	765.0	896.0	930.0
80°	466.0	513.0	639.0	770.0	809.0
82.5°	335.0	382.0	518.0	646.0	680.0
85°	218.0	269.0	411.0	524.0	547.0
87.5°	137.0	183.0	317.0	413.0	436.0
90°	104.0	133.0	240.0	317.0	333.0
92.5°	98.0	110.0	186.0	243.0	253.0
95°	96.0	101.0	153.0	187.0	192.0
97.5°	95.0	94.0	134.0	154.0	157.0
100°	92.0	88.0	120.0	134.0	134.0
102.5°	89.0	82.0	110.0	123.0	123.0
105°	82.0	77.0	104.0	116.0	117.0
107.5°	75.0	72.0	98.0	112.0	113.0
110°	67.0	65.0	93.0	108.0	111.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	59.0	57.0	88.0	105.0	109.0
115°	51.0	50.0	82.0	102.0	107.0
117.5°	44.0	42.0	76.0	97.0	104.0
120°	37.0	34.0	69.0	92.0	99.0
122.5°	31.0	27.0	61.0	86.0	94.0
125°	26.0	21.0	53.0	79.0	87.0
127.5°	22.0	17.0	45.0	71.0	80.0
130°	18.0	14.0	37.0	63.0	72.0
132.5°	15.0	12.0	30.0	54.0	63.0
135°	12.0	10.0	22.0	46.0	55.0
137.5°	10.0	8.0	15.0	37.0	46.0
140°	8.0	7.0	9.0	29.0	37.0
142.5°	7.0	5.0	4.0	22.0	28.0
145°	6.0	4.0	2.0	14.0	20.0
147.5°	5.0	4.0	2.0	8.0	13.0
150°	4.0	3.0	2.0	3.0	7.0
152.5°	4.0	3.0	2.0	0.0	1.0
155°	4.0	4.0	2.0	1.0	0.0
157.5°	4.0	4.0	2.0	1.0	0.0
160°	4.0	4.0	3.0	1.0	0.0
162.5°	4.0	4.0	3.0	1.0	1.0
165°	4.0	4.0	3.0	1.0	1.0
167.5°	4.0	4.0	3.0	1.0	1.0
170°	5.0	4.0	3.0	1.0	1.0
172.5°	5.0	4.0	3.0	2.0	1.0
175°	5.0	4.0	3.0	2.0	2.0
177.5°	5.0	5.0	3.0	2.0	2.0
180°	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)