

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: P236602

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236602
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-L840-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
6 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15229.0 lumens
Efficiency: N/A
Efficacy: 135.5 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

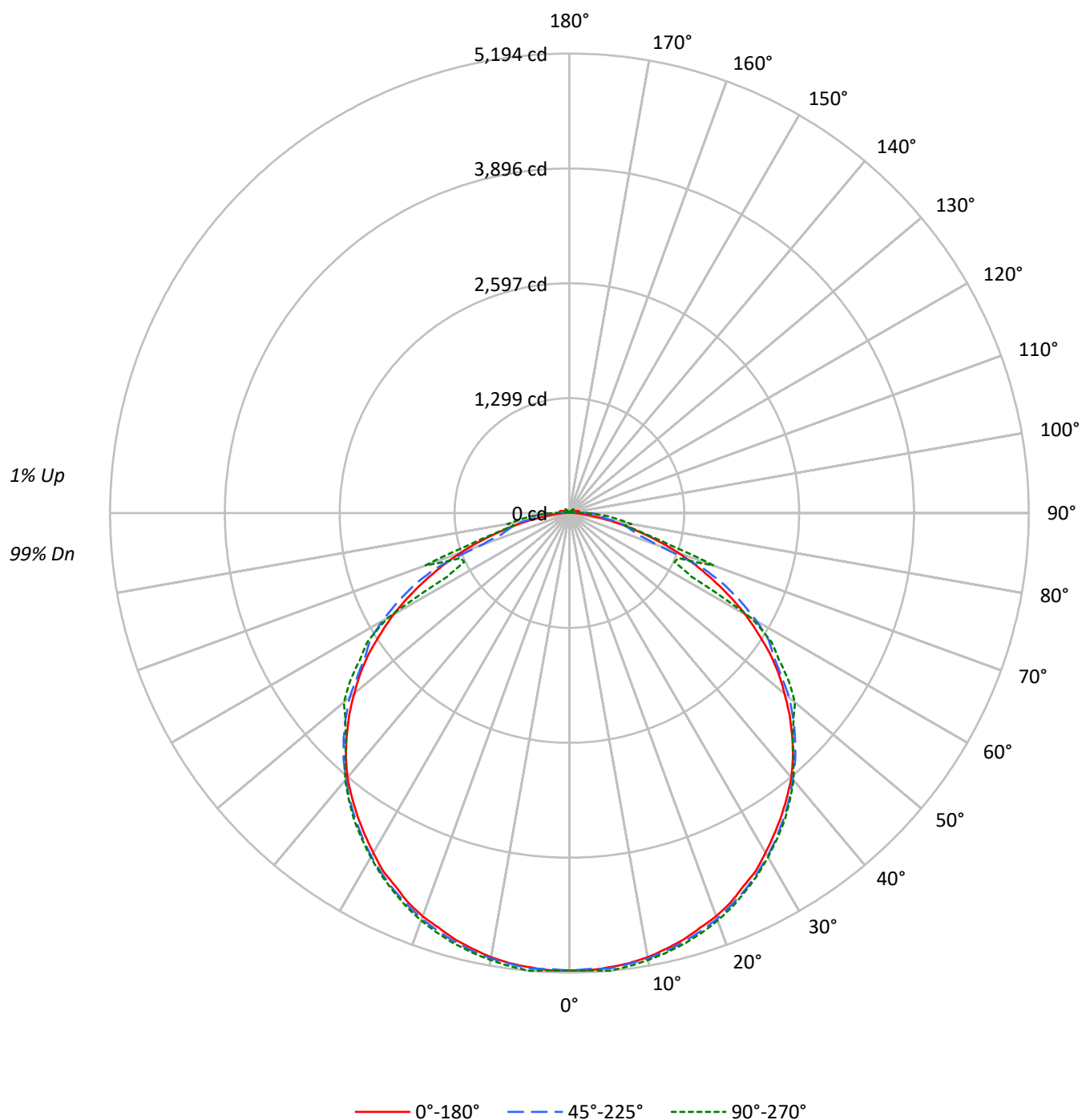
Input Watts (W): 112.42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	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°	12951	12951	12951
5°	12892	12759	12793
10°	12831	12531	12522
15°	12735	12303	12274
20°	12650	12078	12018
25°	12508	11817	11718
30°	12392	11545	11415
35°	12257	11231	11101
40°	12146	10901	10733
45°	11895	10545	10208
50°	11540	10087	10086
55°	11118	9435	9407
60°	10433	8942	8402
65°	9406	7931	5134
70°	8175	4897	7645
75°	6441	3870	4309
80°	4595	3382	4350
85°	2887	3419	3425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.7	3.2
10°-20°	1417.5	9.3
20°-30°	2166.8	14.2
30°-40°	2642.3	17.4
40°-50°	2775.3	18.2
50°-60°	2544.3	16.7
60°-70°	1738.5	11.4
70°-80°	910.4	6.0
80°-90°	356.3	2.3
90°-100°	74.0	0.5
100°-110°	38.8	0.3
110°-120°	27.6	0.2
120°-130°	19.7	0.1
130°-140°	17.4	0.1
140°-150°	5.3	0.0
150°-160°	1.6	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	4076.0	26.8
0°-40°	6718.3	44.1
0°-60°	12037.9	79.0
0°-90°	15043.1	98.8
90°-120°	140.3	0.9
90°-150°	182.8	1.2
90°-180°	186.0	1.2
0°-180°	15229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5170	5170	5170	5170	5170	
5°	5154	5169	5168	5183	5194	490
15°	4990	5016	5014	5033	5037	1408
25°	4653	4695	4699	4716	4714	2149
35°	4178	4227	4219	4238	4240	2616
45°	3561	3614	3609	3590	3573	2745
55°	2766	2819	2816	2920	2892	2462
65°	1793	1875	1948	1324	1312	1778
75°	816	888	717	812	844	881
85°	170	142	408	541	446	195
90°	51	125	207	171	174	35
95°	79	51	44	39	37	72
105°	92	42	26	23	21	96
115°	43	36	23	20	20	45
125°	20	17	44	14	13	19
135°	9	7	38	18	32	7
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°	5170.1	5170.1	5170.1	5170.1	5170.1
2.5°	5174.1	5179.1	5158.1	5168.1	5173.1
5°	5154.1	5169.1	5168.1	5183.1	5194.1
7.5°	5133.1	5136.1	5140.1	5162.1	5166.1
10°	5098.1	5121.1	5111.1	5131.1	5131.1
12.5°	5046.1	5072.1	5070.1	5088.1	5088.1
15°	4990.1	5016.1	5014.1	5033.1	5037.1
17.5°	4915.1	4952.1	4950.1	4974.1	4974.1
20°	4850.1	4878.1	4881.1	4901.1	4902.1
22.5°	4765.1	4796.1	4793.1	4814.1	4816.1
25°	4653.1	4695.1	4699.1	4716.1	4714.1
27.5°	4562.1	4590.1	4593.1	4607.1	4610.1
30°	4434.1	4478.1	4481.1	4492.1	4493.1
32.5°	4307.1	4358.1	4353.1	4370.1	4367.1
35°	4178.1	4227.1	4219.1	4238.1	4240.1
37.5°	4043.1	4086.1	4082.1	4099.1	4093.1
40°	3903.1	3936.1	3928.1	3939.1	3943.1
42.5°	3740.1	3779.1	3779.1	3777.1	3746.1
45°	3561.1	3614.1	3609.1	3590.1	3573.1
47.5°	3375.1	3430.1	3432.1	3407.1	3435.1
50°	3175.1	3245.1	3244.1	3245.1	3328.1
52.5°	2981.1	3042.1	3016.1	3143.1	3127.1
55°	2766.1	2819.1	2816.1	2920.1	2892.1
57.5°	2525.0	2589.0	2669.1	2689.1	2708.1
60°	2301.0	2360.0	2442.0	2475.0	2374.0
62.5°	2049.0	2111.0	2199.0	2087.0	1552.0
65°	1793.0	1875.0	1948.0	1324.0	1312.0
67.5°	1548.0	1609.0	1642.0	1166.0	1330.0
70°	1302.0	1352.0	1059.0	1231.0	1732.0
72.5°	1058.0	1125.0	804.0	1428.0	1170.0
75°	816.0	888.0	717.0	812.0	844.0
77.5°	605.0	634.0	631.0	629.0	640.0
80°	428.0	359.0	517.0	566.0	712.0
82.5°	279.0	231.0	367.0	531.0	561.0
85°	170.0	142.0	408.0	541.0	446.0
87.5°	105.0	137.0	317.0	319.0	288.0
90°	51.0	125.0	207.0	171.0	174.0
92.5°	46.0	94.0	105.0	84.0	83.0
95°	79.0	51.0	44.0	39.0	37.0
97.5°	106.0	32.0	28.0	29.0	29.0
100°	110.0	31.0	27.0	30.0	32.0
102.5°	105.0	34.0	26.0	24.0	22.0
105°	92.0	42.0	26.0	23.0	21.0
107.5°	79.0	45.0	26.0	23.0	22.0
110°	65.0	44.0	25.0	22.0	21.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.0	40.0	24.0	22.0	21.0
115°	43.0	36.0	23.0	20.0	20.0
117.5°	36.0	33.0	22.0	17.0	17.0
120°	30.0	30.0	21.0	15.0	15.0
122.5°	24.0	23.0	23.0	14.0	14.0
125°	20.0	17.0	44.0	14.0	13.0
127.5°	17.0	13.0	44.0	18.0	13.0
130°	14.0	11.0	21.0	46.0	20.0
132.5°	11.0	9.0	26.0	56.0	64.0
135°	9.0	7.0	38.0	18.0	32.0
137.5°	7.0	6.0	11.0	25.0	16.0
140°	6.0	5.0	6.0	55.0	33.0
142.5°	5.0	4.0	5.0	12.0	43.0
145°	4.0	4.0	4.0	6.0	7.0
147.5°	4.0	4.0	4.0	5.0	4.0
150°	4.0	3.0	4.0	3.0	3.0
152.5°	3.0	4.0	4.0	2.0	2.0
155°	4.0	4.0	4.0	3.0	2.0
157.5°	4.0	4.0	4.0	3.0	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	4.0	2.0
170°	4.0	5.0	5.0	4.0	3.0
172.5°	4.0	5.0	5.0	4.0	3.0
175°	5.0	5.0	5.0	4.0	3.0
177.5°	5.0	5.0	5.0	4.0	3.0
180°	4.0	4.0	4.0	4.0	4.0

(END OF REPORT)