

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: P236599

Luminaire Tested: **VRVT4LED-LD5-12-PC-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-12-PC-UNV-L840-CD1-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
4 BOARDS WITH CLEAR POLY CARBONATE LENS
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11608.0 lumens
Efficiency: N/A
Efficacy: 125.5 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

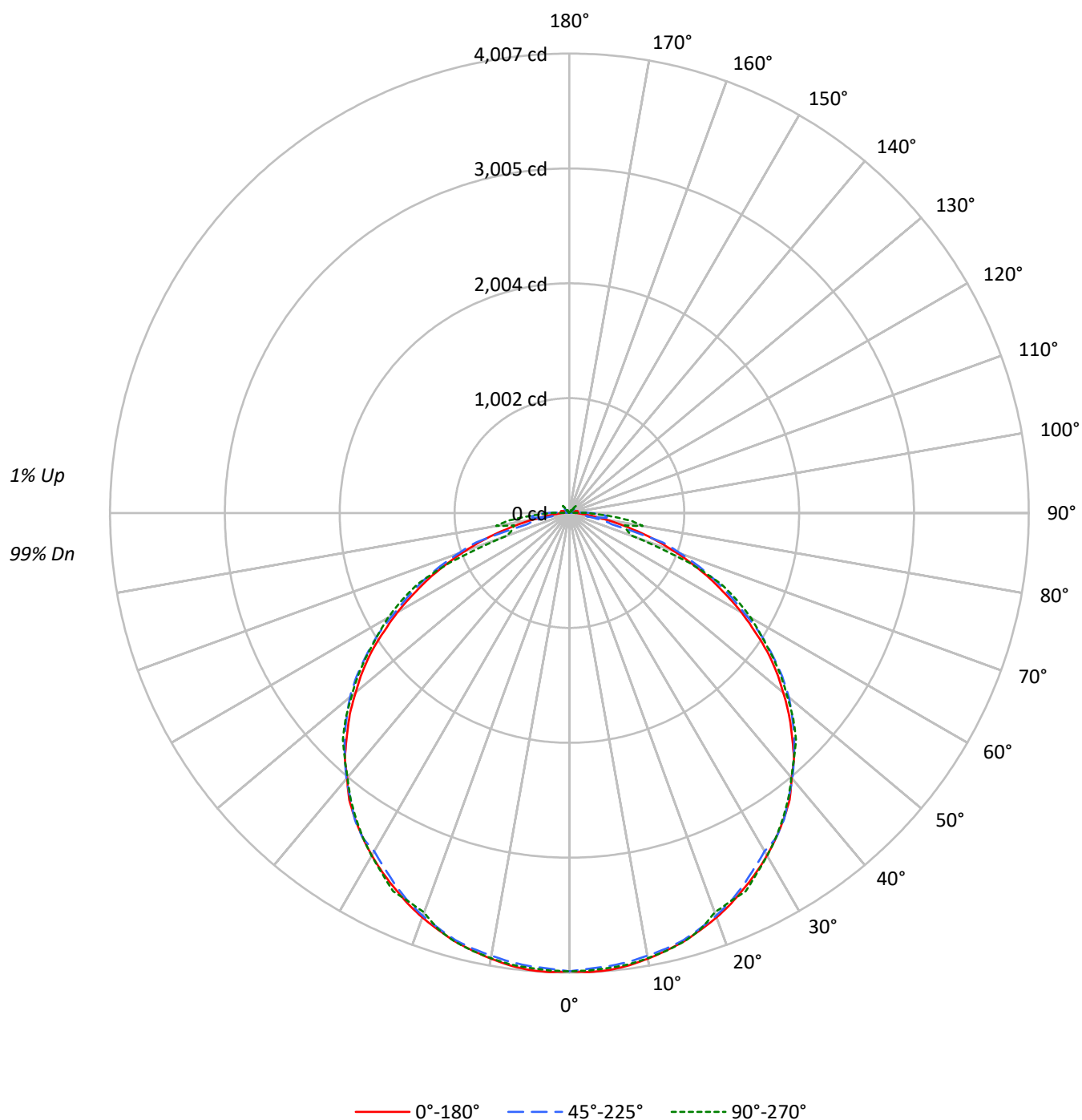
Input Watts (W): 92.53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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	80	75		81	77	73		78	75	71
3	90	80	72	65	88	78	70	64		75	68	63		72	66	62		69	65	61
4	83	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		60	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°	10010	10010	10010
5°	10006	9793	9806
10°	9931	9610	9617
15°	9867	9455	9425
20°	9789	9250	9087
25°	9704	9012	9043
30°	9635	8773	8765
35°	9559	8688	8500
40°	9387	8397	8193
45°	9167	8107	7984
50°	8850	7773	7511
55°	8470	7246	6995
60°	7864	6506	6465
65°	7094	5764	5695
70°	6075	4762	2579
75°	4810	2112	2598
80°	3364	977	3957
85°	2245	2759	3025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.6	3.3
10°-20°	1089.1	9.4
20°-30°	1661.9	14.3
30°-40°	2035.1	17.5
40°-50°	2131.6	18.4
50°-60°	1916.4	16.5
60°-70°	1369.3	11.8
70°-80°	580.8	5.0
80°-90°	295.5	2.5
90°-100°	62.0	0.5
100°-110°	26.7	0.2
110°-120°	18.9	0.2
120°-130°	13.0	0.1
130°-140°	20.0	0.2
140°-150°	6.7	0.1
150°-160°	1.2	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	3129.6	27.0
0°-40°	5164.7	44.5
0°-60°	9212.6	79.4
0°-90°	11458.2	98.7
90°-120°	107.7	0.9
90°-150°	147.4	1.3
90°-180°	150.0	1.3
0°-180°	11608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3996	3996	3996	3996	3996	
5°	4000	3983	3967	3986	3982	380
15°	3867	3857	3853	3870	3868	1091
25°	3610	3618	3584	3617	3638	1665
35°	3258	3261	3264	3257	3247	2036
45°	2744	2752	2775	2773	2794	2117
55°	2107	2131	2163	2160	2151	1874
65°	1352	1376	1416	1462	1455	1336
75°	609	621	391	254	509	656
85°	132	95	329	420	394	147
90°	54	82	190	160	167	33
95°	53	52	40	26	22	49
105°	69	30	17	14	13	71
115°	38	29	14	9	8	39
125°	18	16	14	7	7	17
135°	9	7	22	78	32	7
145°	4	4	3	24	17	3
155°	3	3	3	1	1	1
165°	4	4	4	3	1	1
175°	4	4	4	3	3	0
180°	3	3	3	3	3	



TEST NUMBER: P236599

CATALOG NUMBER: VRVT4LED-LD5-12-PC-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3996.1	3996.1	3996.1	3996.1	3996.1
2.5°	4006.7	3994.8	3976.3	3993.5	3992.1
5°	4000.1	3982.9	3967.0	3985.5	3981.6
7.5°	3978.9	3960.4	3947.2	3967.0	3969.7
10°	3945.9	3935.3	3919.4	3943.2	3940.6
12.5°	3907.5	3903.6	3890.3	3908.9	3908.9
15°	3866.6	3857.3	3853.3	3870.5	3867.9
17.5°	3809.7	3809.7	3796.5	3820.3	3805.7
20°	3752.9	3747.6	3738.3	3725.1	3706.6
22.5°	3685.5	3686.8	3669.6	3641.8	3665.6
25°	3610.1	3618.0	3583.7	3616.7	3637.9
27.5°	3532.1	3537.4	3491.1	3554.6	3541.4
30°	3447.5	3446.2	3405.2	3451.5	3450.2
32.5°	3355.0	3362.9	3356.3	3356.3	3353.7
35°	3258.5	3261.1	3263.8	3257.2	3246.6
37.5°	3154.0	3144.8	3138.2	3144.8	3138.2
40°	3016.6	3028.5	3025.8	3029.8	3010.0
42.5°	2898.9	2871.2	2896.3	2900.2	2900.2
45°	2744.3	2752.2	2774.7	2773.3	2794.5
47.5°	2597.5	2596.2	2634.5	2653.0	2646.4
50°	2434.9	2478.6	2499.7	2494.4	2478.6
52.5°	2277.6	2314.6	2338.4	2334.5	2321.3
55°	2107.1	2130.9	2162.6	2160.0	2150.7
57.5°	1914.1	1963.0	1984.2	1992.1	1981.5
60°	1734.3	1759.4	1776.6	1808.4	1826.9
62.5°	1538.7	1571.7	1594.2	1644.4	1648.4
65°	1352.3	1376.1	1415.8	1462.0	1455.4
67.5°	1159.3	1184.4	1228.0	1278.3	1128.9
70°	967.6	987.5	1029.8	609.4	584.3
72.5°	793.1	789.2	851.3	516.9	534.0
75°	609.4	621.3	391.3	253.8	508.9
77.5°	446.8	469.3	304.0	503.6	494.4
80°	313.3	339.7	149.4	468.0	647.7
82.5°	207.5	170.5	326.5	556.5	555.2
85°	132.2	95.2	329.2	420.4	393.9
87.5°	88.6	72.7	284.2	277.6	252.5
90°	54.2	82.0	190.4	159.9	166.6
92.5°	42.3	85.9	100.5	78.0	70.1
95°	52.9	51.6	39.7	26.4	22.5
97.5°	70.1	27.8	21.2	17.2	14.5
100°	75.3	25.1	18.5	14.5	13.2
102.5°	75.3	27.8	18.5	14.5	13.2
105°	68.7	30.4	17.2	14.5	13.2
107.5°	60.8	31.7	17.2	13.2	11.9
110°	52.9	33.0	15.9	11.9	11.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	44.9	31.7	14.5	10.6	9.3
115°	38.3	29.1	14.5	9.3	7.9
117.5°	31.7	26.4	13.2	7.9	7.9
120°	26.4	23.8	13.2	7.9	6.6
122.5°	22.5	21.2	13.2	6.6	6.6
125°	18.5	15.9	14.5	6.6	6.6
127.5°	15.9	11.9	23.8	7.9	6.6
130°	13.2	9.3	52.9	10.6	7.9
132.5°	10.6	7.9	46.3	21.2	11.9
135°	9.3	6.6	22.5	78.0	31.7
137.5°	6.6	5.3	13.2	55.5	84.6
140°	5.3	4.0	14.5	31.7	50.2
142.5°	5.3	4.0	7.9	14.5	21.2
145°	4.0	4.0	2.6	23.8	17.2
147.5°	4.0	2.6	2.6	17.2	29.1
150°	2.6	2.6	2.6	5.3	13.2
152.5°	2.6	2.6	2.6	1.3	2.6
155°	2.6	2.6	2.6	1.3	1.3
157.5°	2.6	2.6	4.0	1.3	1.3
160°	2.6	4.0	4.0	1.3	1.3
162.5°	2.6	4.0	4.0	1.3	1.3
165°	4.0	4.0	4.0	2.6	1.3
167.5°	4.0	4.0	4.0	2.6	1.3
170°	4.0	4.0	4.0	2.6	1.3
172.5°	4.0	4.0	4.0	2.6	2.6
175°	4.0	4.0	4.0	2.6	2.6
177.5°	4.0	4.0	4.0	2.6	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)