

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: P236592

Luminaire Tested: **VRVT4LED-LD5-12-DRF-UNV-L835-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-12-DRF-UNV-L835-CD1-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
4 BOARDS WITH FROSTED ACYLIC LENS
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11367.0 lumens
Efficiency: N/A
Efficacy: 122.8 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

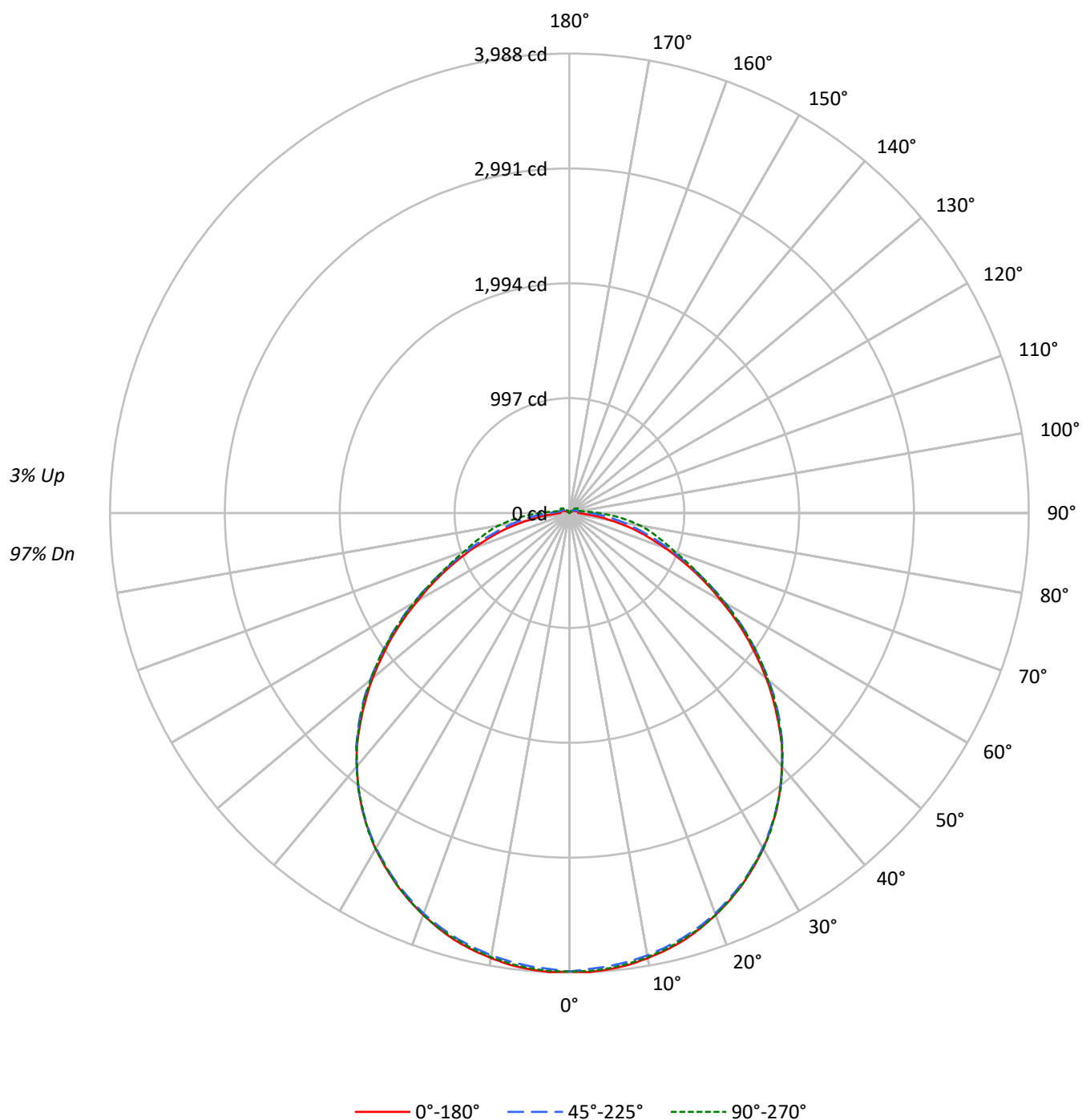
Input Watts (W): 92.53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
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	110	110	110	104	104	104	99	99	99
1	108	103	99	95	105	100	96	93	96	92	89	91	89	86	87	85	83
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	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	45
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°	9968	9968	9968
5°	9943	9746	9765
10°	9871	9555	9549
15°	9796	9362	9325
20°	9680	9151	9099
25°	9557	8911	8835
30°	9406	8647	8550
35°	9209	8339	8199
40°	8932	7976	7816
45°	8563	7558	7357
50°	8113	7025	6815
55°	7561	6411	6207
60°	6884	5731	5502
65°	6232	4991	4812
70°	5542	4297	4274
75°	4854	3677	4022
80°	3950	3129	3797
85°	2958	2582	3304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.7	3.3
10°-20°	1080.3	9.5
20°-30°	1636.5	14.4
30°-40°	1961.3	17.3
40°-50°	1988.7	17.5
50°-60°	1703.6	15.0
60°-70°	1214.4	10.7
70°-80°	737.6	6.5
80°-90°	343.0	3.0
90°-100°	125.6	1.1
100°-110°	78.5	0.7
110°-120°	59.5	0.5
120°-130°	37.6	0.3
130°-140°	17.5	0.2
140°-150°	4.7	0.0
150°-160°	0.7	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	3093.4	27.2
0°-40°	5054.7	44.5
0°-60°	8747.0	77.0
0°-90°	11042.1	97.1
90°-120°	263.6	2.3
90°-150°	323.4	2.8
90°-180°	325.0	2.9
0°-180°	11367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3979	3979	3979	3979	3979	
5°	3975	3966	3948	3967	3965	378
15°	3839	3830	3815	3835	3827	1083
25°	3555	3551	3544	3560	3554	1638
35°	3139	3142	3133	3143	3132	1960
45°	2564	2583	2587	2584	2575	1977
55°	1881	1903	1914	1920	1908	1678
65°	1188	1212	1226	1231	1230	1180
75°	615	632	681	757	788	652
85°	174	203	308	408	430	185
90°	82	95	178	244	257	48
95°	75	73	109	138	144	61
105°	65	57	77	84	84	68
115°	40	38	62	78	82	41
125°	21	17	42	64	70	19
135°	10	8	17	36	44	8
145°	4	4	1	12	17	3
155°	3	3	1	0	0	1
165°	4	3	3	1	1	1
175°	4	4	3	1	1	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3979.1	3979.1	3979.1	3979.1	3979.1
2.5°	3988.2	3979.1	3959.6	3979.1	3977.8
5°	3975.2	3966.1	3947.9	3967.4	3964.8
7.5°	3954.4	3945.3	3925.8	3946.6	3944.0
10°	3921.9	3918.0	3897.2	3916.7	3912.8
12.5°	3884.2	3877.7	3859.5	3879.0	3875.1
15°	3838.7	3829.6	3815.3	3834.8	3827.0
17.5°	3778.9	3775.0	3760.7	3780.2	3775.0
20°	3711.3	3706.1	3698.3	3713.9	3711.3
22.5°	3637.2	3633.3	3622.9	3643.7	3634.6
25°	3555.3	3551.4	3543.6	3560.5	3554.0
27.5°	3463.0	3463.0	3452.6	3468.2	3456.5
30°	3365.5	3362.9	3356.4	3368.1	3365.5
32.5°	3252.4	3262.8	3247.2	3257.6	3257.6
35°	3139.3	3141.9	3132.8	3143.2	3131.5
37.5°	3006.7	3014.5	3010.6	3017.1	3010.6
40°	2870.2	2880.6	2874.1	2876.7	2871.5
42.5°	2729.9	2740.2	2738.9	2737.7	2732.5
45°	2563.5	2583.0	2586.9	2584.3	2575.2
47.5°	2399.7	2425.7	2428.3	2432.2	2419.2
50°	2232.0	2248.9	2259.3	2260.6	2248.9
52.5°	2050.0	2077.3	2087.7	2092.9	2085.1
55°	1881.0	1903.1	1913.5	1920.0	1908.3
57.5°	1701.6	1717.2	1743.2	1744.5	1731.5
60°	1518.3	1546.9	1565.1	1563.8	1554.7
62.5°	1354.5	1371.4	1393.5	1392.2	1383.1
65°	1188.1	1211.5	1225.8	1231.0	1229.7
67.5°	1029.5	1051.6	1071.1	1088.0	1094.5
70°	882.7	899.6	929.4	959.3	968.4
72.5°	741.0	761.8	802.1	851.5	873.6
75°	614.9	631.8	681.2	756.6	787.8
77.5°	491.4	505.7	574.6	673.4	707.2
80°	367.9	393.9	478.4	588.9	621.4
82.5°	265.2	288.6	391.3	497.9	529.1
85°	174.2	202.8	308.1	408.2	430.3
87.5°	110.5	135.2	236.6	322.4	339.3
90°	81.9	94.9	178.1	244.4	257.4
92.5°	76.7	79.3	133.9	184.6	192.4
95°	75.4	72.8	109.2	137.8	144.3
97.5°	74.1	67.6	94.9	111.8	114.4
100°	72.8	63.7	87.1	97.5	97.5
102.5°	70.2	59.8	80.6	89.7	89.7
105°	65.0	57.2	76.7	84.5	84.5
107.5°	59.8	53.3	72.8	83.2	83.2
110°	53.3	49.4	70.2	81.9	83.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.8	44.2	66.3	80.6	83.2
115°	40.3	37.7	62.4	78.0	81.9
117.5°	35.1	32.5	58.5	75.4	80.6
120°	29.9	26.0	53.3	72.8	79.3
122.5°	24.7	20.8	48.1	67.6	75.4
125°	20.8	16.9	41.6	63.7	70.2
127.5°	18.2	13.0	35.1	57.2	65.0
130°	14.3	11.7	28.6	50.7	58.5
132.5°	11.7	9.1	23.4	44.2	52.0
135°	10.4	7.8	16.9	36.4	44.2
137.5°	7.8	6.5	11.7	29.9	37.7
140°	6.5	5.2	6.5	23.4	29.9
142.5°	5.2	3.9	3.9	16.9	23.4
145°	3.9	3.9	1.3	11.7	16.9
147.5°	3.9	2.6	1.3	6.5	10.4
150°	2.6	2.6	1.3	2.6	5.2
152.5°	2.6	2.6	1.3	0.0	1.3
155°	2.6	2.6	1.3	0.0	0.0
157.5°	2.6	2.6	1.3	0.0	0.0
160°	2.6	2.6	1.3	0.0	0.0
162.5°	3.9	2.6	1.3	1.3	0.0
165°	3.9	2.6	2.6	1.3	1.3
167.5°	3.9	3.9	2.6	1.3	1.3
170°	3.9	2.6	2.6	1.3	1.3
172.5°	3.9	2.6	2.6	1.3	1.3
175°	3.9	3.9	2.6	1.3	1.3
177.5°	3.9	3.9	2.6	1.3	1.3
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)