

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: P236631

Luminaire Tested: **VRVT4LED-LD5-30-DRF-UNV-L835-CD3-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-30-DRF-UNV-L835-CD3-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
12 BOARDS WITH FROSTED ACYLIC LENS
Light Source: (672) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29139.0 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.21 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

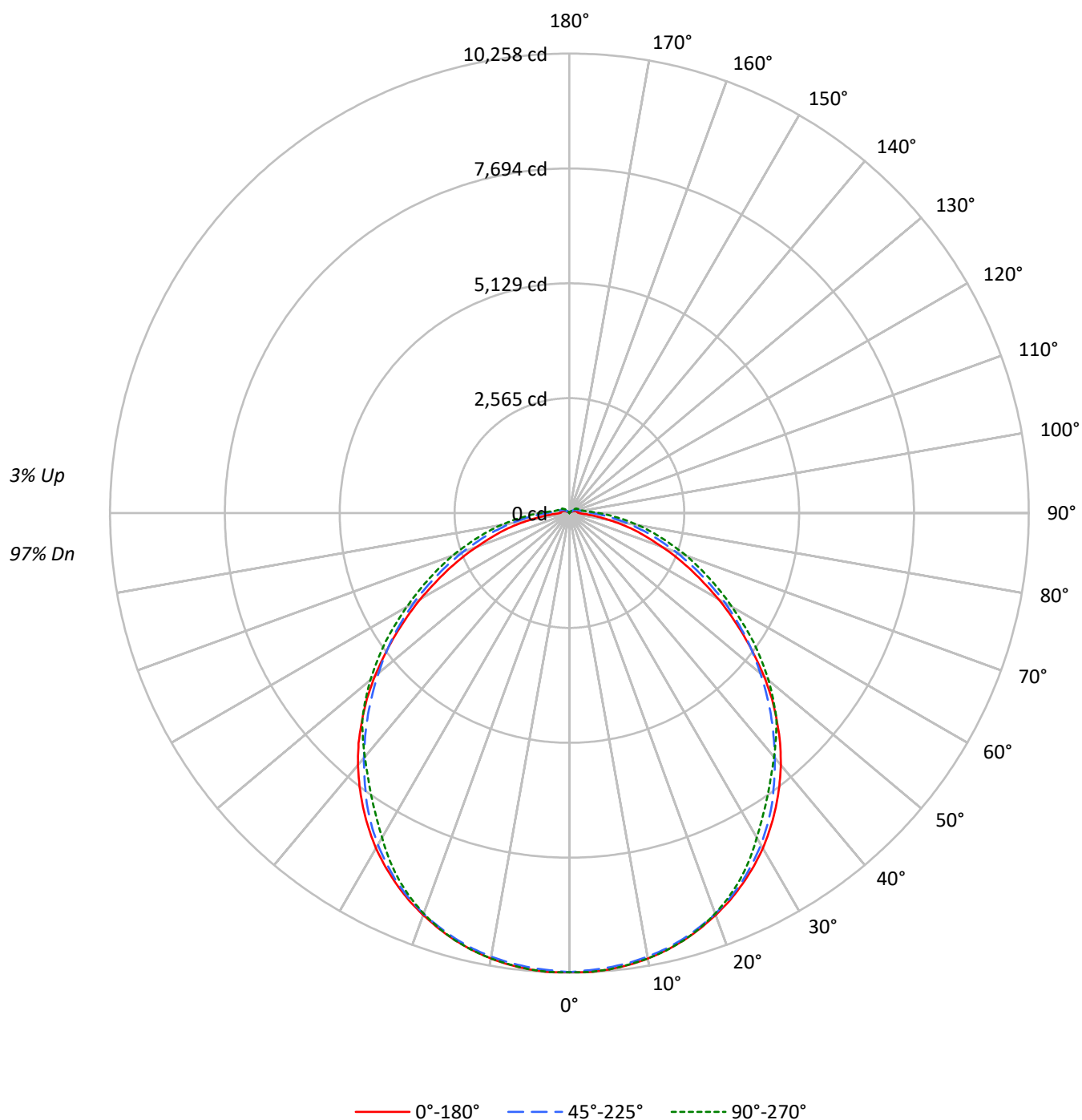
Input Watts (W): 232.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	104	104	104	99	99	99
1	108	103	98	94	105	100	96	93	95	92	89	91	88	86	87	85	83
2	98	90	83	77	95	87	81	76	83	78	74	80	75	71	76	73	69
3	89	79	71	64	87	77	69	63	74	67	62	70	65	60	67	63	59
4	82	70	61	54	79	68	60	54	65	58	53	63	57	52	60	55	51
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	49	44
6	70	56	47	41	68	55	47	41	53	46	40	51	45	40	49	43	39
7	65	51	42	36	63	50	42	36	48	41	36	47	40	35	45	39	35
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	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°	25679	25679	25679
5°	25579	25139	25188
10°	25414	24652	24643
15°	25202	24137	24061
20°	24907	23562	23329
25°	24570	22885	22431
30°	24146	22039	21255
35°	23557	21010	20190
40°	22850	19810	19345
45°	21879	18579	18681
50°	20609	17311	17596
55°	19057	16065	16314
60°	17418	14710	14840
65°	15648	13167	13496
70°	13764	11677	12220
75°	12090	10129	10833
80°	9848	8609	9502
85°	7322	7055	7999



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	970.4	3.3
10°-20°	2781.0	9.5
20°-30°	4183.7	14.4
30°-40°	4929.9	16.9
40°-50°	4982.7	17.1
50°-60°	4331.0	14.9
60°-70°	3199.8	11.0
70°-80°	1966.9	6.8
80°-90°	897.4	3.1
90°-100°	369.9	1.3
100°-110°	228.7	0.8
110°-120°	154.0	0.5
120°-130°	88.4	0.3
130°-140°	40.0	0.1
140°-150°	11.0	0.0
150°-160°	2.2	0.0
160°-170°	1.4	0.0
170°-180°	0.5	0.0
0°-30°	7935.0	27.2
0°-40°	12864.9	44.2
0°-60°	22178.7	76.1
0°-90°	28242.8	96.9
90°-120°	752.6	2.6
90°-150°	892.1	3.1
90°-180°	896.0	3.1
0°-180°	29139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10251	10251	10251	10251	10251	
5°	10226	10217	10183	10210	10227	972
15°	9875	9858	9837	9863	9874	2786
25°	9140	9130	9100	9056	9024	4211
35°	8030	8022	7893	7745	7712	5020
45°	6550	6530	6359	6438	6538	5047
55°	4741	4736	4795	4978	5016	4242
65°	2983	3012	3234	3426	3449	2961
75°	1532	1620	1877	2078	2122	1622
85°	431	568	842	1012	1042	456
90°	211	320	519	634	655	122
95°	187	246	347	400	410	151
105°	152	170	226	255	260	159
115°	91	99	165	203	216	92
125°	47	39	101	144	162	43
135°	22	19	42	82	97	18
145°	11	8	5	27	37	7
155°	7	7	5	2	0	3
165°	8	8	6	3	1	2
175°	9	8	7	4	3	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10250.7	10250.7	10250.7	10250.7	10250.7
2.5°	10258.5	10248.7	10213.4	10239.9	10254.6
5°	10226.2	10217.3	10183.0	10210.5	10227.1
7.5°	10175.2	10161.5	10130.1	10159.5	10167.4
10°	10097.8	10083.1	10054.7	10083.1	10097.8
12.5°	9998.8	9984.1	9961.6	9986.1	10000.8
15°	9875.3	9857.7	9837.1	9862.6	9874.3
17.5°	9722.4	9710.7	9687.2	9714.6	9713.6
20°	9549.0	9539.2	9522.5	9532.3	9515.7
22.5°	9361.8	9343.2	9326.5	9307.9	9287.3
25°	9140.3	9129.6	9100.2	9056.1	9023.7
27.5°	8901.2	8893.4	8833.6	8758.1	8717.0
30°	8639.6	8623.9	8554.3	8437.7	8366.1
32.5°	8345.6	8336.7	8236.8	8105.5	8030.0
35°	8030.0	8022.2	7892.8	7744.8	7711.5
37.5°	7697.8	7685.1	7509.6	7405.8	7396.9
40°	7343.0	7318.5	7138.2	7074.5	7106.9
42.5°	6968.7	6942.2	6748.2	6761.9	6825.6
45°	6550.2	6529.6	6359.1	6438.5	6538.5
47.5°	6133.7	6103.4	5964.2	6101.4	6176.9
50°	5670.2	5635.9	5567.3	5758.4	5806.4
52.5°	5199.8	5185.1	5180.2	5372.3	5400.7
55°	4741.2	4736.3	4795.1	4978.3	5015.6
57.5°	4285.5	4284.5	4396.2	4568.7	4597.1
60°	3841.5	3848.4	4017.0	4172.8	4193.4
62.5°	3387.8	3425.1	3613.2	3779.8	3813.1
65°	2983.1	3012.5	3234.0	3426.0	3448.6
67.5°	2587.2	2635.2	2864.5	3055.6	3098.7
70°	2192.2	2277.5	2525.4	2713.6	2768.5
72.5°	1845.3	1922.7	2190.3	2402.9	2422.5
75°	1531.7	1619.9	1876.7	2077.6	2121.7
77.5°	1219.1	1311.2	1586.6	1798.3	1826.7
80°	917.3	1032.9	1316.1	1518.0	1555.2
82.5°	651.7	784.0	1062.3	1255.4	1287.7
85°	431.2	568.4	841.8	1012.3	1041.7
87.5°	272.4	418.5	658.6	808.5	836.9
90°	210.7	320.5	519.4	634.1	654.6
92.5°	197.0	272.4	417.5	498.8	513.5
95°	187.2	246.0	346.9	399.8	409.6
97.5°	181.3	224.4	301.8	337.1	342.0
100°	174.4	205.8	271.5	298.9	302.8
102.5°	164.6	187.2	246.0	274.4	276.4
105°	151.9	169.5	226.4	254.8	259.7
107.5°	136.2	151.9	210.7	240.1	247.9
110°	121.5	134.3	195.0	227.4	236.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.8	116.6	180.3	215.6	225.4
115°	91.1	99.0	164.6	202.9	215.6
117.5°	79.4	81.3	149.0	189.1	202.9
120°	66.6	65.7	133.3	174.4	189.1
122.5°	55.9	51.9	116.6	160.7	176.4
125°	47.0	39.2	100.9	144.1	161.7
127.5°	39.2	31.4	85.3	129.4	146.0
130°	33.3	26.5	69.6	113.7	129.4
132.5°	27.4	21.6	55.9	98.0	112.7
135°	22.5	18.6	42.1	82.3	97.0
137.5°	18.6	14.7	29.4	66.6	80.4
140°	15.7	12.7	18.6	52.9	65.7
142.5°	12.7	9.8	9.8	39.2	51.0
145°	10.8	7.8	4.9	27.4	37.2
147.5°	8.8	6.9	3.9	15.7	24.5
150°	6.9	5.9	3.9	6.9	12.7
152.5°	6.9	5.9	4.9	2.0	2.9
155°	6.9	6.9	4.9	2.0	0.0
157.5°	6.9	6.9	4.9	2.0	0.0
160°	7.8	6.9	4.9	2.0	1.0
162.5°	7.8	6.9	5.9	2.9	1.0
165°	7.8	7.8	5.9	2.9	1.0
167.5°	7.8	7.8	5.9	2.9	2.0
170°	7.8	7.8	5.9	2.9	2.0
172.5°	7.8	7.8	5.9	3.9	2.0
175°	8.8	7.8	6.9	3.9	2.9
177.5°	8.8	7.8	5.9	3.9	2.9
180°	5.9	5.9	5.9	5.9	5.9

(END OF REPORT)