

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: P237864

Luminaire Tested: **4VRVT2-LD5-8-FR50-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-13)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VRVT2-LD5-8-FR50-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
FROSTED LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
4FT FIXTURE
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8124.9 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

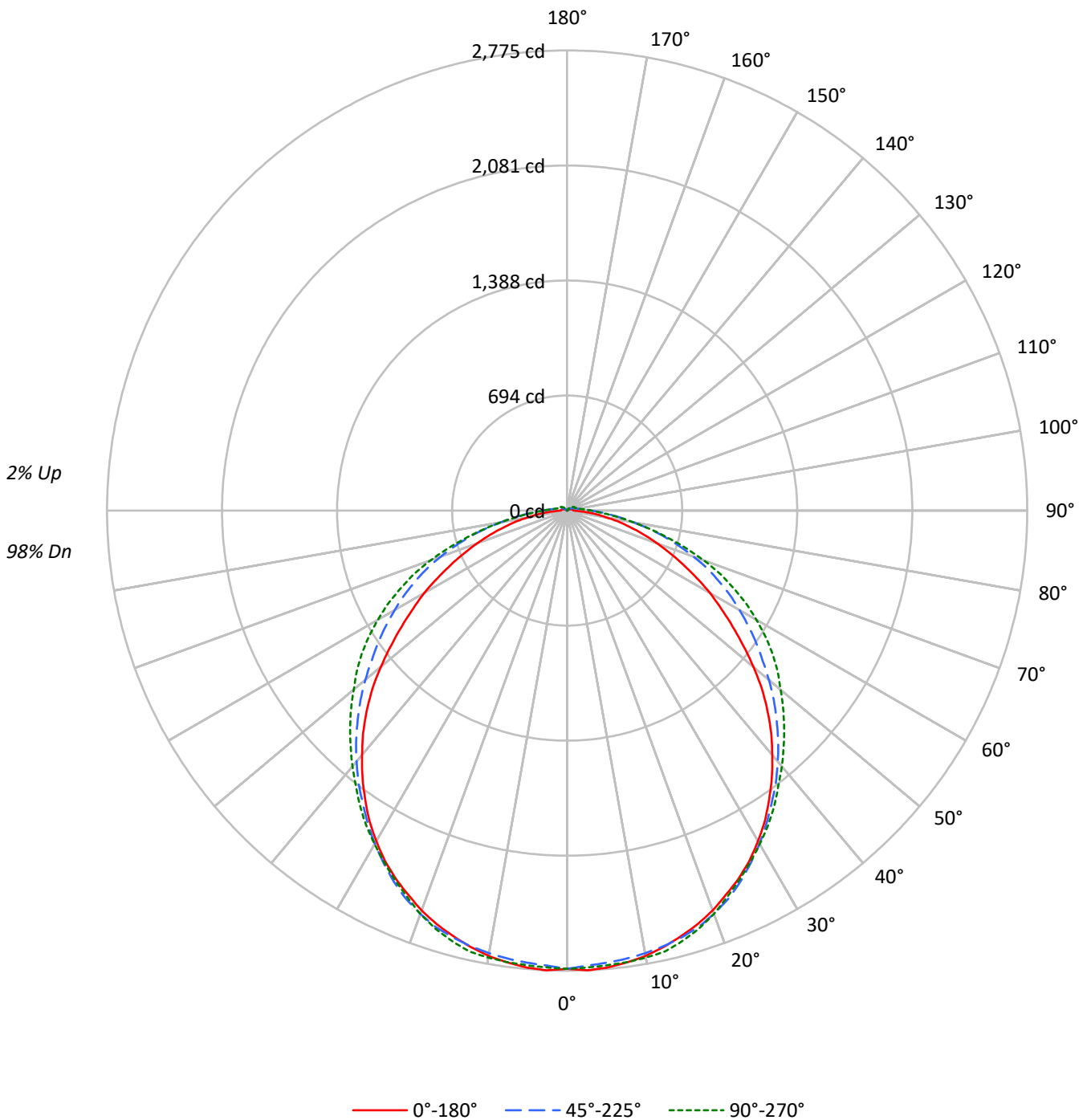
Input Watts (W): 58.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	72	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	54	79	68	60	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	29
9	56	42	34	29	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14277	14277	14277
5°	14297	13876	13870
10°	14208	13586	13563
15°	14062	13314	13195
20°	13907	12983	12690
25°	13701	12543	12123
30°	13424	12011	11618
35°	13032	11451	11133
40°	12556	10911	10615
45°	12008	10325	10144
50°	11256	9710	9665
55°	10371	9107	9240
60°	9616	8517	8635
65°	8704	7901	7878
70°	7840	7092	6899
75°	6948	6084	5551
80°	5990	4814	4159
85°	4963	3674	2958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.9	3.2
10°-20°	753.7	9.3
20°-30°	1135.4	14.0
30°-40°	1352.2	16.6
40°-50°	1380.4	17.0
50°-60°	1237.1	15.2
60°-70°	965.5	11.9
70°-80°	594.3	7.3
80°-90°	247.8	3.0
90°-100°	89.2	1.1
100°-110°	48.1	0.6
110°-120°	31.5	0.4
120°-130°	17.9	0.2
130°-140°	7.9	0.1
140°-150°	1.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2151.0	26.5
0°-40°	3503.2	43.1
0°-60°	6120.7	75.3
0°-90°	7928.2	97.6
90°-120°	168.8	2.1
90°-150°	196.5	2.4
90°-180°	197.0	2.4
0°-180°	8124.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2763	2763	2763	2763	2763	
5°	2766	2756	2737	2756	2752	263
15°	2657	2658	2665	2695	2687	750
25°	2448	2468	2471	2467	2457	1127
35°	2124	2169	2151	2175	2177	1328
45°	1709	1753	1786	1837	1851	1316
55°	1217	1288	1392	1485	1514	1092
65°	773	854	1012	1095	1105	769
75°	400	488	605	635	624	429
85°	122	190	249	249	240	125
90°	40	101	147	149	145	25
95°	36	57	92	96	93	29
105°	28	28	51	57	56	30
115°	15	14	35	46	48	15
125°	7	4	20	33	36	6
135°	3	2	8	18	21	2
145°	1	1	1	5	7	1
155°	1	1	1	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 4VRVT2-LD5-8-FR50-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2763.2	2763.2	2763.2	2763.2	2763.2
2.5°	2775.2	2765.2	2746.2	2764.2	2758.2
5°	2766.2	2756.2	2737.2	2756.2	2752.2
7.5°	2749.2	2742.2	2726.2	2749.2	2747.2
10°	2727.2	2720.2	2710.2	2738.2	2737.2
12.5°	2694.2	2691.1	2690.1	2725.2	2723.2
15°	2657.1	2658.1	2665.1	2695.2	2687.1
17.5°	2615.1	2621.1	2633.1	2651.1	2643.1
20°	2566.1	2576.1	2588.1	2595.1	2588.1
22.5°	2506.1	2524.1	2536.1	2531.1	2522.1
25°	2448.1	2468.1	2471.1	2467.1	2457.1
27.5°	2380.1	2405.1	2396.1	2401.1	2390.1
30°	2302.1	2337.1	2320.1	2329.1	2322.1
32.5°	2219.1	2260.1	2237.1	2252.1	2254.1
35°	2124.1	2169.1	2151.1	2175.1	2177.1
37.5°	2028.1	2075.1	2067.1	2097.1	2092.1
40°	1924.1	1976.1	1976.1	2009.1	2014.1
42.5°	1821.1	1865.1	1884.1	1923.1	1933.1
45°	1709.1	1753.1	1786.1	1837.1	1851.1
47.5°	1594.1	1643.1	1690.1	1746.1	1767.1
50°	1467.1	1526.1	1588.1	1661.1	1680.1
52.5°	1339.1	1405.1	1486.1	1574.1	1601.1
55°	1217.1	1288.1	1392.1	1485.1	1514.1
57.5°	1101.1	1174.1	1296.1	1394.1	1419.1
60°	995.1	1058.1	1201.1	1303.1	1318.1
62.5°	881.0	956.1	1108.1	1202.1	1219.1
65°	773.0	854.0	1012.1	1095.1	1105.1
67.5°	671.0	754.0	915.1	988.1	1000.1
70°	576.0	664.0	810.0	871.0	875.0
72.5°	489.0	575.0	706.0	755.0	748.0
75°	400.0	488.0	605.0	635.0	624.0
77.5°	325.0	405.0	503.0	525.0	508.0
80°	247.0	324.0	404.0	412.0	404.0
82.5°	181.0	253.0	322.0	324.0	312.0
85°	122.0	190.0	249.0	249.0	240.0
87.5°	69.0	139.0	190.0	192.0	182.0
90°	40.0	101.0	147.0	149.0	145.0
92.5°	37.0	73.0	115.0	118.0	114.0
95°	36.0	57.0	92.0	96.0	93.0
97.5°	35.0	46.0	77.0	80.0	78.0
100°	34.0	38.0	65.0	70.0	69.0
102.5°	31.0	33.0	57.0	62.0	61.0
105°	28.0	28.0	51.0	57.0	56.0
107.5°	25.0	24.0	46.0	54.0	53.0
110°	21.0	21.0	42.0	51.0	51.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.0	18.0	38.0	49.0	49.0
115°	15.0	14.0	35.0	46.0	48.0
117.5°	12.0	12.0	31.0	43.0	45.0
120°	10.0	9.0	27.0	40.0	43.0
122.5°	8.0	6.0	24.0	36.0	40.0
125°	7.0	4.0	20.0	33.0	36.0
127.5°	5.0	3.0	17.0	29.0	33.0
130°	4.0	3.0	14.0	25.0	29.0
132.5°	4.0	2.0	11.0	21.0	25.0
135°	3.0	2.0	8.0	18.0	21.0
137.5°	2.0	2.0	5.0	15.0	18.0
140°	2.0	2.0	3.0	11.0	14.0
142.5°	2.0	1.0	1.0	8.0	11.0
145°	1.0	1.0	1.0	5.0	7.0
147.5°	1.0	1.0	1.0	2.0	4.0
150°	1.0	1.0	1.0	0.0	1.0
152.5°	1.0	1.0	1.0	0.0	0.0
155°	1.0	1.0	1.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)