

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: P233291

Luminaire Tested: **4VRVT3-LD5-8-G-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VRVT3-LD5-8-G-UNV-L850-CD1-U
Description: 4FT VRVT3 GENERAL APPLICATION, 8000LM
Light Source: (392) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8694.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')
CIE Type: Direct

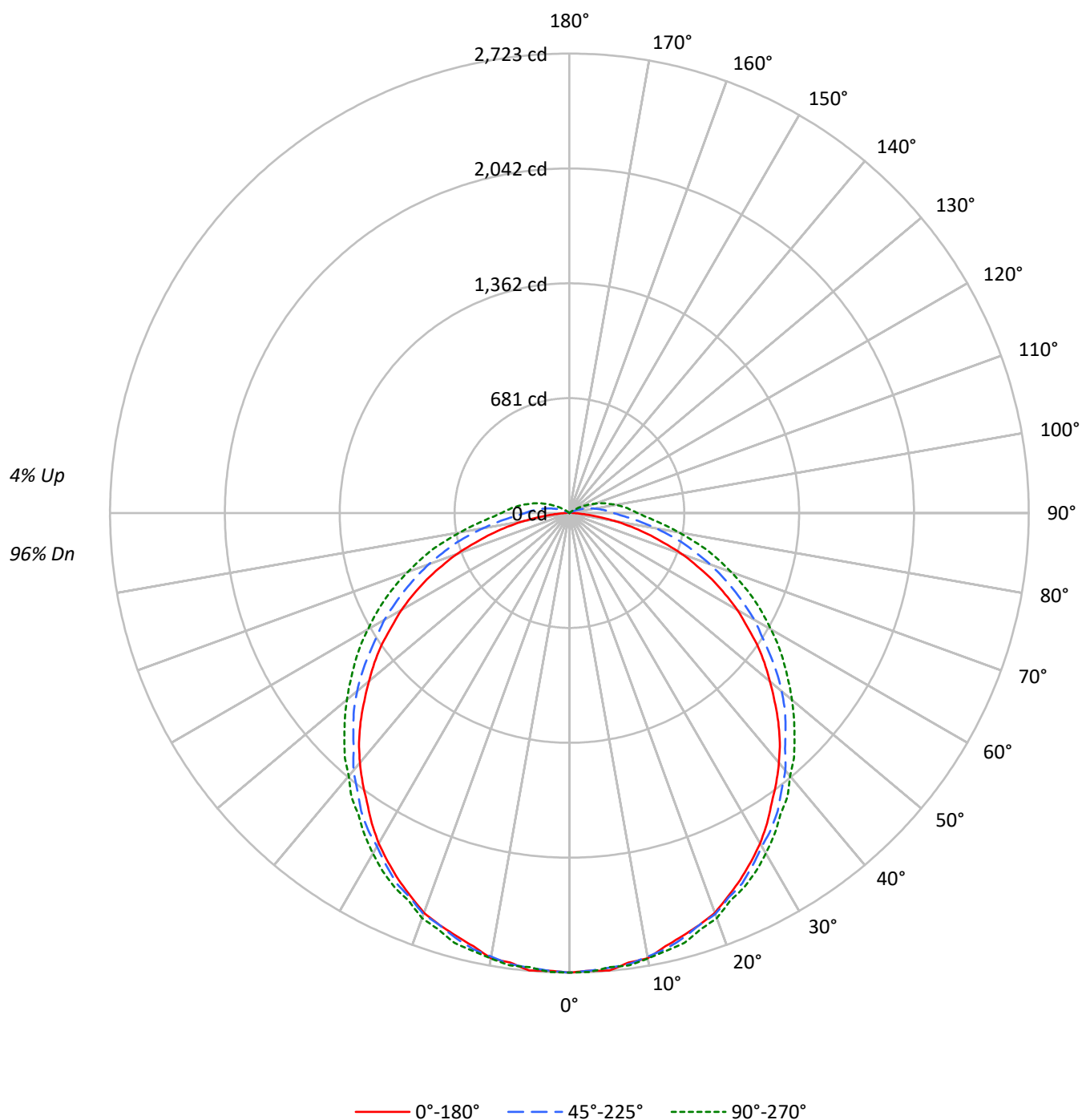
Input Watts (W): 67.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	98	98	98
1	106	101	96	92	103	98	94	90	93	90	86	89	86	83	84	82	80
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66
3	87	76	68	61	85	74	66	60	71	64	58	67	62	57	64	59	55
4	80	67	58	51	77	66	57	51	63	55	50	60	54	48	57	52	47
5	73	60	51	44	71	59	50	44	56	48	43	54	47	42	51	46	41
6	68	54	45	38	65	53	44	38	51	43	37	48	42	37	46	41	36
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32
8	58	45	36	30	57	44	35	30	42	35	29	40	34	29	39	33	28
9	55	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	26
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	33	28	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17586	17586	17586
5°	17246	14977	14371
10°	16797	13023	12198
15°	16212	11444	10558
20°	15824	10163	9191
25°	15231	9035	8057
30°	14654	7997	7109
35°	13947	7171	6251
40°	13369	6365	5537
45°	12684	5602	4922
50°	11896	4962	4349
55°	11143	4302	3827
60°	10248	3734	3343
65°	9147	3161	2895
70°	7816	2631	2445
75°	6086	2113	2035
80°	4119	1601	1613
85°	1824	1159	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.3	3.0
10°-20°	735.7	8.5
20°-30°	1114.1	12.8
30°-40°	1342.7	15.4
40°-50°	1402.3	16.1
50°-60°	1302.1	15.0
60°-70°	1062.1	12.2
70°-80°	721.5	8.3
80°-90°	383.1	4.4
90°-100°	209.3	2.4
100°-110°	112.2	1.3
110°-120°	44.0	0.5
120°-130°	7.5	0.1
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2107.1	24.2
0°-40°	3449.8	39.7
0°-60°	6154.2	70.8
0°-90°	8320.9	95.7
90°-120°	365.6	4.2
90°-150°	373.1	4.3
90°-180°	373.0	4.3
0°-180°	8694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2723	2723	2723	2723	2723	
5°	2721	2689	2705	2714	2702	258
15°	2594	2604	2607	2610	2637	734
25°	2397	2404	2422	2429	2449	1105
35°	2092	2113	2153	2182	2181	1312
45°	1750	1774	1811	1862	1886	1349
55°	1358	1395	1447	1523	1554	1210
65°	933	978	1073	1172	1205	921
75°	481	562	702	802	842	510
85°	98	220	365	471	508	118
90°	24	125	262	368	403	15
95°	15	74	204	303	343	11
105°	8	14	102	187	222	8
115°	3	2	28	85	109	3
125°	1	0	0	15	26	1
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2723.0	2723.0	2723.0	2723.0	2723.0
2.5°	2714.4	2734.8	2714.4	2712.2	2721.9
5°	2720.8	2688.6	2704.7	2714.4	2701.5
7.5°	2686.4	2701.5	2696.1	2685.3	2703.6
10°	2678.9	2657.4	2669.2	2664.9	2680.0
12.5°	2629.4	2626.2	2645.5	2635.9	2656.3
15°	2593.9	2603.6	2606.8	2610.0	2636.9
17.5°	2559.5	2564.8	2559.5	2569.2	2586.4
20°	2520.7	2504.6	2529.3	2535.8	2554.1
22.5°	2458.3	2460.5	2465.9	2490.6	2487.4
25°	2397.0	2403.5	2421.8	2429.3	2448.7
27.5°	2330.3	2328.2	2352.9	2374.4	2393.8
30°	2260.4	2269.0	2280.8	2324.9	2329.2
32.5°	2180.8	2187.2	2223.8	2248.5	2260.4
35°	2091.5	2113.0	2152.8	2181.8	2180.8
37.5°	2014.0	2034.4	2065.6	2101.2	2121.6
40°	1932.2	1949.5	1991.4	2024.8	2034.4
42.5°	1846.2	1861.2	1892.4	1941.9	1969.9
45°	1750.4	1774.1	1810.7	1862.3	1886.0
47.5°	1649.3	1685.9	1733.2	1776.2	1805.3
50°	1551.4	1588.0	1642.8	1693.4	1722.5
52.5°	1456.7	1492.2	1548.2	1612.7	1636.4
55°	1357.7	1395.4	1447.0	1523.4	1553.5
57.5°	1245.8	1288.9	1350.2	1447.0	1470.7
60°	1151.2	1182.4	1266.3	1353.4	1379.3
62.5°	1040.4	1089.8	1168.4	1267.4	1293.2
65°	932.8	978.0	1072.6	1171.6	1205.0
67.5°	817.7	872.5	978.0	1076.9	1112.4
70°	710.1	767.1	886.5	984.4	1018.8
72.5°	586.3	663.8	788.6	897.3	930.6
75°	480.9	561.6	701.5	801.5	842.4
77.5°	375.5	470.2	610.0	711.1	744.5
80°	274.3	376.6	519.6	630.5	658.4
82.5°	175.4	294.8	439.0	544.4	576.7
85°	97.9	219.5	364.7	471.2	507.8
87.5°	47.3	164.6	304.5	413.1	446.5
90°	23.7	124.8	262.5	367.9	403.4
92.5°	18.3	99.0	233.5	335.7	369.0
95°	15.1	74.2	204.4	303.4	343.2
97.5°	12.9	55.9	177.5	276.5	309.8
100°	9.7	37.7	150.6	245.3	280.8
102.5°	8.6	24.7	127.0	216.2	246.4
105°	7.5	14.0	102.2	187.2	221.6
107.5°	5.4	7.5	80.7	161.4	192.6
110°	4.3	5.4	61.3	133.4	163.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.3	4.3	43.0	108.7	134.5
115°	3.2	2.2	28.0	85.0	108.7
117.5°	2.2	2.2	15.1	63.5	85.0
120°	1.1	1.1	5.4	43.0	62.4
122.5°	1.1	1.1	1.1	28.0	42.0
125°	1.1	0.0	0.0	15.1	25.8
127.5°	1.1	0.0	0.0	3.2	11.8
130°	1.1	0.0	0.0	0.0	2.2
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	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)