

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1212248

Luminaire Tested: 4VT3-LD5-8-G-UNV-L830-CD1-U

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P1212248
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
Product Line: METALUX
Catalog Number: 4VT3-LD5-8-G-UNV-L830-CD1-U
Description: 4FT VT3 GENERAL APPLICATION, 8000LM
Light Source: (392) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

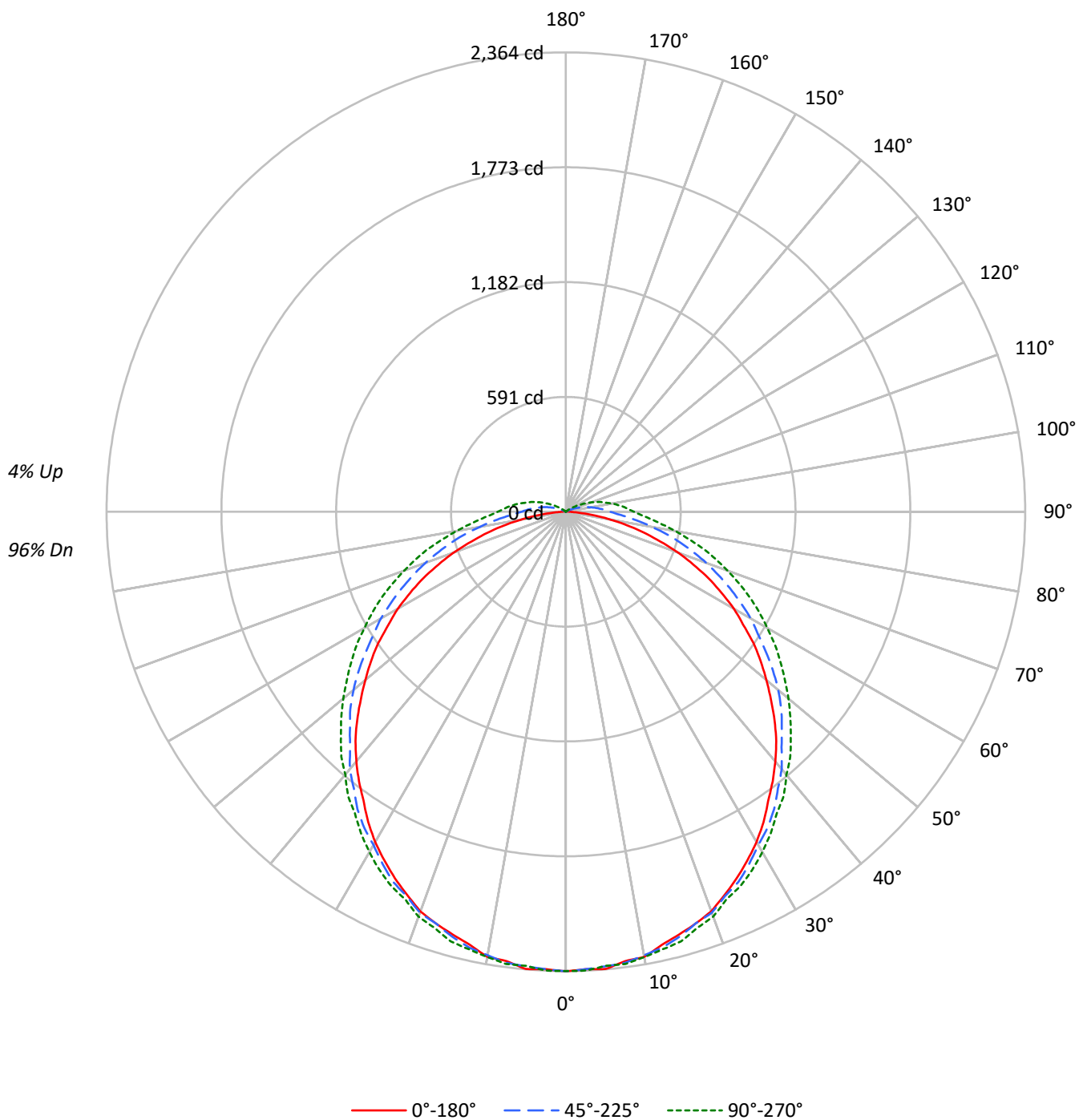
Lumens per Lamp: N/A
Luminaire Lumens: 7547.6 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')
CIE Type: Direct

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: 24 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
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109		103	103	103		98
1	106	101	96	92	103	98	94	90	93	90	86		89	86	83		84
2	96	87	80	74	93	85	78	73	81	75	70		77	72	68		73
3	87	76	68	61	85	74	66	60	71	64	58		67	62	57		64
4	80	67	58	51	77	66	57	51	63	55	50		60	54	48		57
5	73	60	51	44	71	59	50	44	56	48	43		54	47	42		51
6	68	54	45	38	65	53	44	38	51	43	37		48	42	37		46
7	63	49	40	34	61	48	39	33	46	38	33		44	37	32		42
8	58	45	36	30	57	44	35	30	42	35	29		40	34	29		39
9	55	41	33	27	53	40	32	27	39	31	26		37	31	26		36
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15268	15268	15268
5°	14972	13002	12476
10°	14582	11306	10590
15°	14074	9935	9166
20°	13738	8823	7979
25°	13223	7843	6994
30°	12721	6943	6172
35°	12108	6226	5427
40°	11606	5525	4807
45°	11012	4864	4273
50°	10327	4308	3775
55°	9674	3734	3323
60°	8896	3241	2902
65°	7941	2744	2513
70°	6785	2284	2123
75°	5283	1834	1767
80°	3577	1390	1401
85°	1584	1006	1104

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11012 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	3.0
10°-20°	638.7	8.5
20°-30°	967.2	12.8
30°-40°	1165.6	15.4
40°-50°	1217.4	16.1
50°-60°	1130.4	15.0
60°-70°	922.1	12.2
70°-80°	626.3	8.3
80°-90°	332.5	4.4
90°-100°	181.7	2.4
100°-110°	97.4	1.3
110°-120°	38.2	0.5
120°-130°	6.5	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°	1829.3	24.2
0°-40°	2994.9	39.7
0°-60°	5342.8	70.8
0°-90°	7223.7	95.7
90°-120°	317.3	4.2
90°-150°	323.9	4.3
90°-180°	324.0	4.3
0°-180°	7547.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2364	2364	2364	2364	2364	
5°	2362	2334	2348	2356	2345	224
15°	2252	2260	2263	2266	2289	637
25°	2081	2087	2102	2109	2126	959
35°	1816	1834	1869	1894	1893	1139
45°	1520	1540	1572	1617	1637	1171
55°	1179	1211	1256	1322	1349	1051
65°	810	849	931	1017	1046	799
75°	418	488	609	696	731	443
85°	85	190	317	409	441	102
90°	20	108	228	319	350	13
95°	13	64	178	263	298	10
105°	6	12	89	162	192	7
115°	3	2	24	74	94	3
125°	1	0	0	13	22	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°	2364.0	2364.0	2364.0	2364.0	2364.0
2.5°	2356.5	2374.2	2356.5	2354.6	2363.0
5°	2362.1	2334.1	2348.1	2356.5	2345.3
7.5°	2332.2	2345.3	2340.6	2331.3	2347.1
10°	2325.7	2307.0	2317.3	2313.5	2326.6
12.5°	2282.7	2279.9	2296.7	2288.3	2306.0
15°	2251.9	2260.3	2263.1	2265.9	2289.2
17.5°	2222.0	2226.7	2222.0	2230.4	2245.3
20°	2188.4	2174.4	2195.8	2201.4	2217.3
22.5°	2134.2	2136.1	2140.7	2162.2	2159.4
25°	2081.0	2086.6	2102.4	2109.0	2125.8
27.5°	2023.0	2021.2	2042.7	2061.3	2078.2
30°	1962.3	1969.8	1980.1	2018.4	2022.1
32.5°	1893.2	1898.8	1930.6	1952.1	1962.3
35°	1815.7	1834.4	1868.9	1894.2	1893.2
37.5°	1748.4	1766.2	1793.3	1824.1	1841.8
40°	1677.5	1692.4	1728.8	1757.8	1766.2
42.5°	1602.7	1615.8	1642.9	1685.9	1710.2
45°	1519.6	1540.2	1571.9	1616.8	1637.3
47.5°	1431.8	1463.6	1504.7	1542.0	1567.3
50°	1346.8	1378.6	1426.2	1470.1	1495.3
52.5°	1264.6	1295.5	1344.0	1400.1	1420.6
55°	1178.7	1211.4	1256.2	1322.5	1348.7
57.5°	1081.6	1118.9	1172.2	1256.2	1276.8
60°	999.4	1026.5	1099.3	1175.0	1197.4
62.5°	903.2	946.1	1014.3	1100.3	1122.7
65°	809.8	849.0	931.2	1017.1	1046.1
67.5°	709.8	757.5	849.0	934.9	965.8
70°	616.4	665.9	769.6	854.6	884.5
72.5°	509.0	576.3	684.6	779.0	807.9
75°	417.5	487.5	609.0	695.8	731.3
77.5°	326.0	408.2	529.6	617.4	646.3
80°	238.2	326.9	451.1	547.3	571.6
82.5°	152.2	255.9	381.1	472.6	500.6
85°	85.0	190.5	316.6	409.1	440.8
87.5°	41.1	142.9	264.3	358.7	387.6
90°	20.5	108.3	227.9	319.4	350.2
92.5°	15.9	85.9	202.7	291.4	320.4
95°	13.1	64.4	177.5	263.4	297.9
97.5°	11.2	48.6	154.1	240.0	269.0
100°	8.4	32.7	130.8	213.0	243.8
102.5°	7.5	21.5	110.2	187.7	213.9
105°	6.5	12.1	88.7	162.5	192.4
107.5°	4.7	6.5	70.0	140.1	167.2
110°	3.7	4.7	53.2	115.8	142.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	3.7	37.4	94.3	116.8
115°	2.8	1.9	24.3	73.8	94.3
117.5°	1.9	1.9	13.1	55.1	73.8
120°	0.9	0.9	4.7	37.4	54.2
122.5°	0.9	0.9	0.9	24.3	36.4
125°	0.9	0.0	0.0	13.1	22.4
127.5°	0.9	0.0	0.0	2.8	10.3
130°	0.9	0.0	0.0	0.0	1.9
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)