

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: P233287

Luminaire Tested: **4VT3-LD5-6-G-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VT3-LD5-6-G-UNV-L840-CD1-U
Description: 4FT VT3 GENERAL APPLICATION, 6000LM
Light Source: (196) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

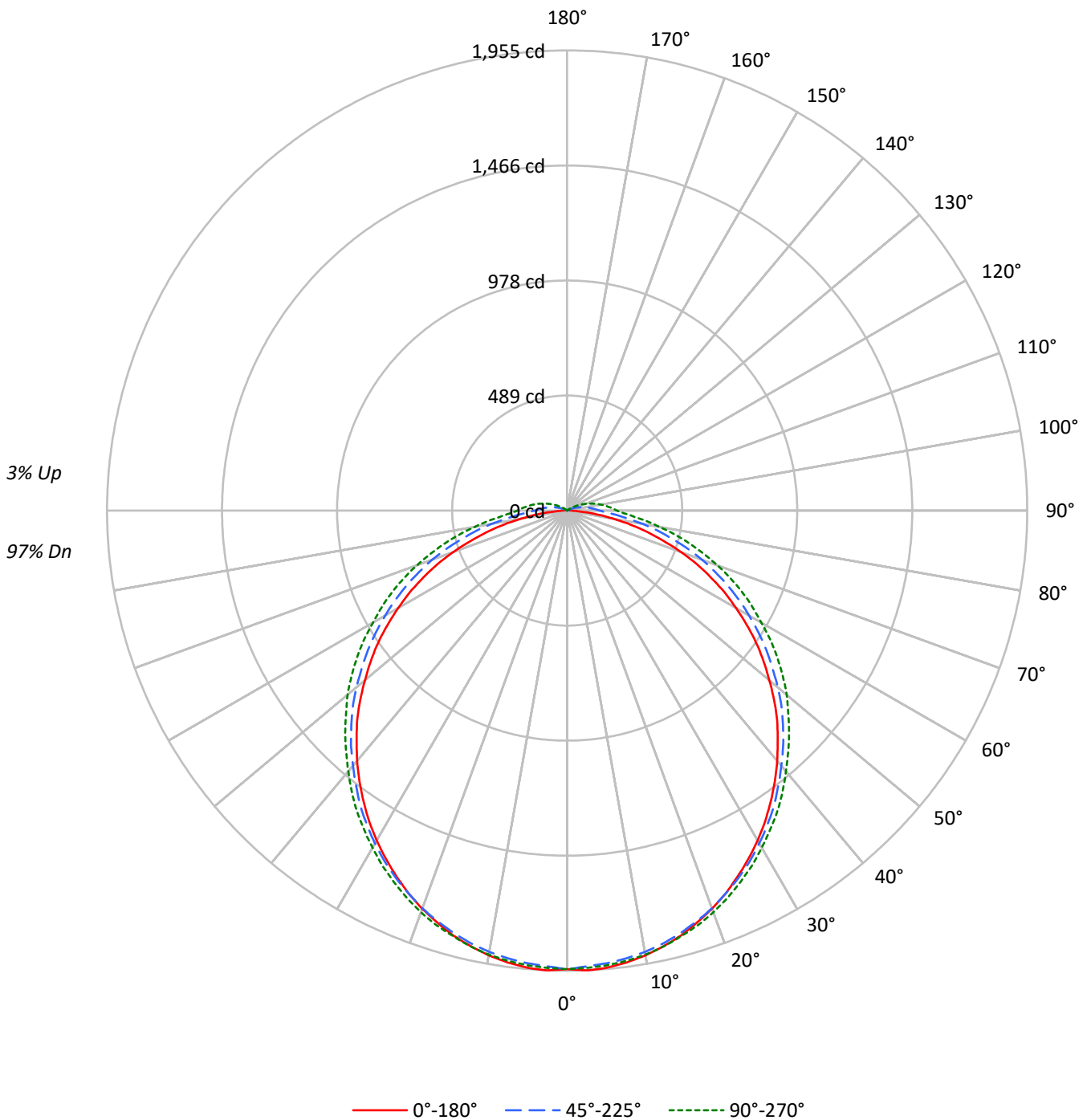
Lumens per Lamp: N/A
Luminaire Lumens: 6033.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')
CIE Type: Direct

Input Watts (W): 51.1
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 | 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 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1 | 107 | 102 | 97 | 93 | 104 | 99 | 95 | 91 | 94 | 91 | 88 | 90 | 87 | 84 | 86 | 83 | 81 | 79 |
| 2 | 97 | 88 | 81 | 75 | 94 | 86 | 79 | 74 | 82 | 76 | 72 | 78 | 73 | 69 | 75 | 71 | 67 | 65 |
| 3 | 88 | 77 | 69 | 62 | 85 | 75 | 67 | 61 | 72 | 65 | 60 | 69 | 63 | 58 | 66 | 61 | 57 | 54 |
| 4 | 81 | 68 | 59 | 52 | 78 | 67 | 58 | 52 | 64 | 56 | 51 | 61 | 55 | 49 | 58 | 53 | 48 | 46 |
| 5 | 74 | 61 | 52 | 45 | 72 | 59 | 51 | 44 | 57 | 49 | 44 | 55 | 48 | 43 | 52 | 47 | 42 | 40 |
| 6 | 68 | 55 | 46 | 39 | 66 | 54 | 45 | 39 | 51 | 44 | 38 | 49 | 43 | 37 | 47 | 42 | 37 | 35 |
| 7 | 63 | 49 | 41 | 34 | 61 | 49 | 40 | 34 | 47 | 39 | 34 | 45 | 38 | 33 | 43 | 37 | 33 | 31 |
| 8 | 59 | 45 | 36 | 31 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 41 | 33 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 24 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 36 | 29 | 24 | 35 | 29 | 24 | 34 | 28 | 24 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12581 | 12581 | 12581 |
| 5° | 12357 | 10689 | 10316 |
| 10° | 12030 | 9289 | 8720 |
| 15° | 11681 | 8159 | 7495 |
| 20° | 11300 | 7227 | 6535 |
| 25° | 10898 | 6425 | 5729 |
| 30° | 10490 | 5725 | 5046 |
| 35° | 10058 | 5102 | 4466 |
| 40° | 9604 | 4525 | 3937 |
| 45° | 9145 | 4014 | 3481 |
| 50° | 8598 | 3529 | 3076 |
| 55° | 8048 | 3072 | 2687 |
| 60° | 7372 | 2632 | 2309 |
| 65° | 6626 | 2216 | 1972 |
| 70° | 5663 | 1810 | 1629 |
| 75° | 4452 | 1386 | 1299 |
| 80° | 2972 | 998 | 973 |
| 85° | 1338 | 657 | 702 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 184.3 | 3.1 |
| 10°-20° | 526.9 | 8.7 |
| 20°-30° | 796.0 | 13.2 |
| 30°-40° | 958.9 | 15.9 |
| 40°-50° | 1001.8 | 16.6 |
| 50°-60° | 925.5 | 15.3 |
| 60°-70° | 742.0 | 12.3 |
| 70°-80° | 480.7 | 8.0 |
| 80°-90° | 222.1 | 3.7 |
| 90°-100° | 109.5 | 1.8 |
| 100°-110° | 58.4 | 1.0 |
| 110°-120° | 22.7 | 0.4 |
| 120°-130° | 4.2 | 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° | 1507.1 | 25.0 |
| 0°-40° | 2466.1 | 40.9 |
| 0°-60° | 4393.3 | 72.8 |
| 0°-90° | 5838.1 | 96.8 |
| 90°-120° | 190.7 | 3.2 |
| 90°-150° | 194.9 | 3.2 |
| 90°-180° | 195.0 | 3.2 |
| 0°-180° | 6033.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1948 | 1948 | 1948 | 1948 | 1948 | |
| 5° | 1950 | 1944 | 1930 | 1942 | 1939 | 185 |
| 15° | 1869 | 1867 | 1859 | 1873 | 1872 | 527 |
| 25° | 1715 | 1719 | 1722 | 1738 | 1741 | 790 |
| 35° | 1508 | 1518 | 1532 | 1549 | 1558 | 944 |
| 45° | 1262 | 1277 | 1297 | 1322 | 1334 | 972 |
| 55° | 981 | 1003 | 1033 | 1072 | 1090 | 875 |
| 65° | 676 | 696 | 752 | 800 | 821 | 668 |
| 75° | 352 | 396 | 460 | 516 | 538 | 373 |
| 85° | 72 | 132 | 207 | 261 | 280 | 87 |
| 90° | 16 | 66 | 138 | 192 | 211 | 11 |
| 95° | 10 | 41 | 106 | 158 | 177 | 8 |
| 105° | 4 | 9 | 53 | 97 | 114 | 5 |
| 115° | 2 | 2 | 15 | 42 | 56 | 2 |
| 125° | 2 | 0 | 0 | 7 | 13 | 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 |



TEST NUMBER: P233287

CATALOG NUMBER: 4VT3-LD5-6-G-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1948.0 | 1948.0 | 1948.0 | 1948.0 | 1948.0 |
| 2.5° | 1955.3 | 1949.5 | 1937.8 | 1948.0 | 1945.1 |
| 5° | 1949.5 | 1943.6 | 1930.4 | 1942.2 | 1939.2 |
| 7.5° | 1936.3 | 1930.4 | 1918.7 | 1931.9 | 1929.0 |
| 10° | 1918.7 | 1914.3 | 1904.0 | 1915.8 | 1915.8 |
| 12.5° | 1895.3 | 1893.8 | 1883.5 | 1896.7 | 1896.7 |
| 15° | 1868.9 | 1867.4 | 1858.6 | 1873.3 | 1871.8 |
| 17.5° | 1835.2 | 1836.6 | 1829.3 | 1843.9 | 1846.9 |
| 20° | 1800.0 | 1800.0 | 1798.5 | 1813.2 | 1816.1 |
| 22.5° | 1760.4 | 1761.9 | 1760.4 | 1778.0 | 1780.9 |
| 25° | 1715.0 | 1719.4 | 1722.3 | 1738.4 | 1741.3 |
| 27.5° | 1668.1 | 1673.9 | 1679.8 | 1695.9 | 1700.3 |
| 30° | 1618.2 | 1622.6 | 1632.9 | 1650.5 | 1653.4 |
| 32.5° | 1565.5 | 1574.2 | 1583.0 | 1600.6 | 1606.5 |
| 35° | 1508.3 | 1518.5 | 1531.7 | 1549.3 | 1558.1 |
| 37.5° | 1449.7 | 1461.4 | 1473.1 | 1496.6 | 1503.9 |
| 40° | 1388.1 | 1401.3 | 1415.9 | 1437.9 | 1446.7 |
| 42.5° | 1323.6 | 1341.2 | 1358.8 | 1382.2 | 1389.6 |
| 45° | 1262.0 | 1276.7 | 1297.2 | 1322.1 | 1333.9 |
| 47.5° | 1193.1 | 1212.2 | 1235.7 | 1262.0 | 1273.8 |
| 50° | 1121.3 | 1141.8 | 1168.2 | 1199.0 | 1218.1 |
| 52.5° | 1052.4 | 1072.9 | 1099.3 | 1137.4 | 1155.0 |
| 55° | 980.6 | 1002.6 | 1033.4 | 1071.5 | 1090.5 |
| 57.5° | 905.9 | 929.3 | 963.0 | 1005.5 | 1024.6 |
| 60° | 828.2 | 853.1 | 892.7 | 939.6 | 952.8 |
| 62.5° | 754.9 | 778.3 | 823.8 | 869.2 | 888.3 |
| 65° | 675.7 | 696.2 | 751.9 | 800.3 | 820.8 |
| 67.5° | 598.0 | 621.5 | 680.1 | 732.9 | 750.5 |
| 70° | 514.5 | 543.8 | 609.8 | 658.1 | 678.7 |
| 72.5° | 430.9 | 466.1 | 535.0 | 587.8 | 606.8 |
| 75° | 351.8 | 395.8 | 460.3 | 516.0 | 537.9 |
| 77.5° | 275.6 | 321.0 | 394.3 | 445.6 | 467.6 |
| 80° | 197.9 | 252.1 | 323.9 | 376.7 | 397.2 |
| 82.5° | 131.9 | 187.6 | 259.4 | 315.1 | 337.1 |
| 85° | 71.8 | 131.9 | 206.7 | 260.9 | 280.0 |
| 87.5° | 33.7 | 92.3 | 162.7 | 216.9 | 238.9 |
| 90° | 16.1 | 66.0 | 137.8 | 192.0 | 211.1 |
| 92.5° | 13.2 | 51.3 | 121.7 | 174.4 | 194.9 |
| 95° | 10.3 | 41.0 | 105.5 | 158.3 | 177.4 |
| 97.5° | 8.8 | 29.3 | 92.3 | 142.2 | 162.7 |
| 100° | 7.3 | 20.5 | 77.7 | 127.5 | 145.1 |
| 102.5° | 5.9 | 13.2 | 64.5 | 112.9 | 130.5 |
| 105° | 4.4 | 8.8 | 52.8 | 96.7 | 114.3 |
| 107.5° | 4.4 | 4.4 | 42.5 | 82.1 | 99.7 |
| 110° | 2.9 | 2.9 | 30.8 | 68.9 | 83.5 |



TEST NUMBER: P233287

CATALOG NUMBER: 4VT3-LD5-6-G-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 2.9 | 2.9 | 22.0 | 55.7 | 68.9 |
| 115° | 1.5 | 1.5 | 14.7 | 42.5 | 55.7 |
| 117.5° | 1.5 | 1.5 | 8.8 | 32.2 | 42.5 |
| 120° | 1.5 | 1.5 | 4.4 | 22.0 | 32.2 |
| 122.5° | 1.5 | 1.5 | 1.5 | 14.7 | 22.0 |
| 125° | 1.5 | 0.0 | 0.0 | 7.3 | 13.2 |
| 127.5° | 0.0 | 0.0 | 0.0 | 2.9 | 7.3 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 |
| 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)