

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: PORTFOLIO

Report Number: P799457

Luminaire Tested: **LD6C20D010 EU6209040 6LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C20D010 EU6209040 6LBMDSWMW
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

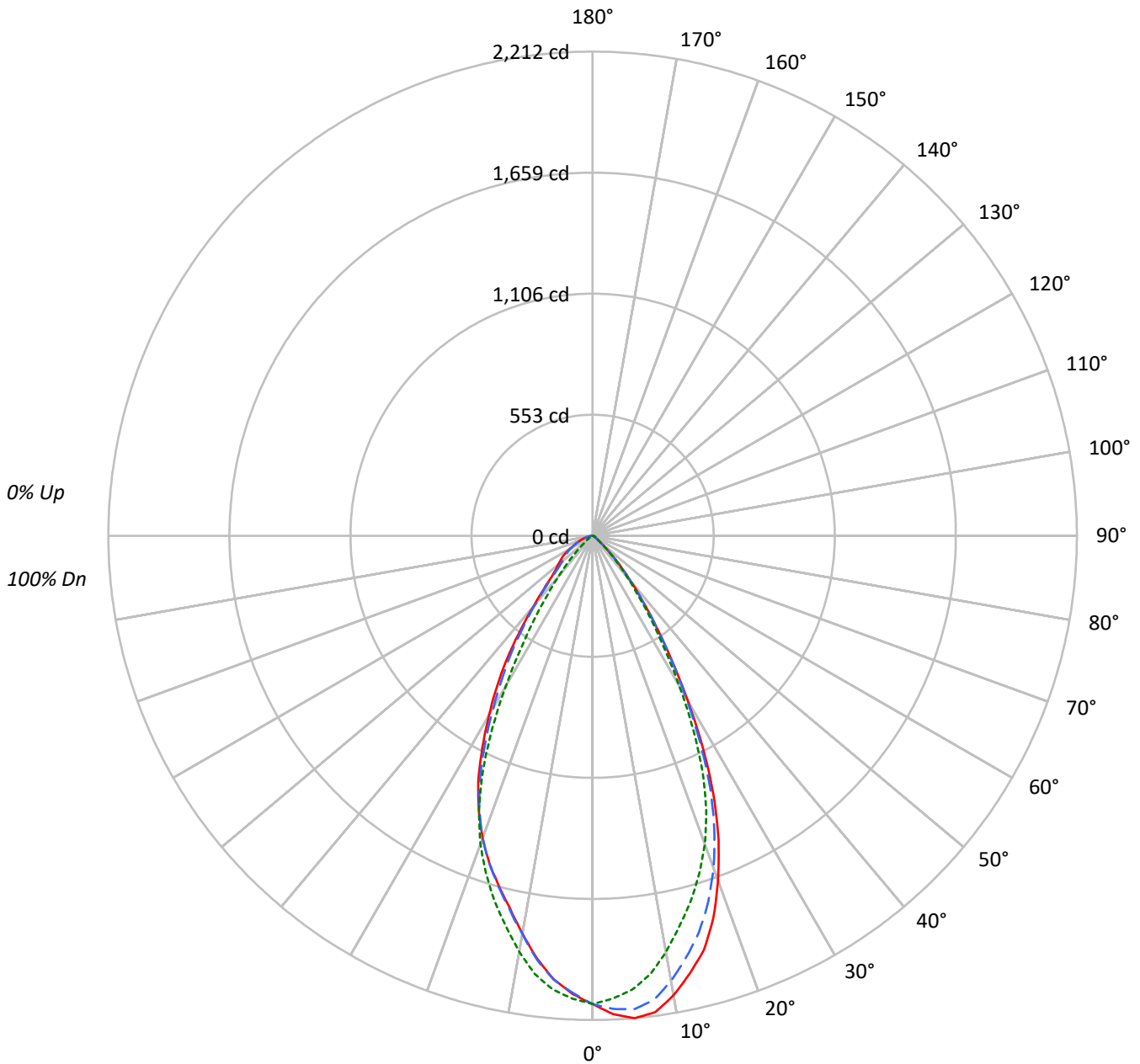
Lumens per Lamp: N/A
Luminaire Lumens: 1842.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): NR
Input Current (A_{in}): 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 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 97 | 95 | 94 | 92 | 92 | 92 | 92 |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 93 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 | 85 | 85 | 85 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 85 | 83 | 80 | 78 | 78 | 78 | 78 |
| 4 | 96 | 88 | 82 | 77 | 94 | 87 | 81 | 77 | 84 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 73 | 73 | 73 | 73 |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 67 | 67 | 67 | 67 |
| 6 | 86 | 77 | 70 | 66 | 84 | 76 | 70 | 66 | 74 | 69 | 65 | 73 | 68 | 65 | 71 | 67 | 64 | 63 | 63 | 63 | 63 |
| 7 | 82 | 72 | 66 | 61 | 80 | 71 | 65 | 61 | 70 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 59 | 59 | 59 | 59 |
| 8 | 78 | 68 | 61 | 57 | 76 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 56 | 55 | 55 | 55 | 55 |
| 9 | 74 | 64 | 58 | 54 | 73 | 63 | 58 | 54 | 62 | 57 | 53 | 61 | 57 | 53 | 61 | 56 | 53 | 52 | 52 | 52 | 52 |
| 10 | 70 | 60 | 54 | 50 | 69 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 50 | 58 | 53 | 50 | 49 | 49 | 49 | 49 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 117288 | 117288 | 117288 |
| 5° | 121747 | 114533 | 111941 |
| 10° | 118635 | 107430 | 102704 |
| 15° | 111261 | 98167 | 93922 |
| 20° | 97676 | 87391 | 85722 |
| 25° | 78996 | 71792 | 74756 |
| 30° | 54920 | 50014 | 59826 |
| 35° | 33850 | 30637 | 45153 |
| 40° | 19157 | 17175 | 29985 |
| 45° | 9303 | 8869 | 20467 |
| 50° | 3539 | 3539 | 17398 |
| 55° | 1940 | 2294 | 16057 |
| 60° | 1414 | 1820 | 13157 |
| 65° | 1193 | 1557 | 10779 |
| 70° | 1042 | 1330 | 8880 |
| 75° | 974 | 1377 | 7625 |
| 80° | 568 | 1168 | 5525 |
| 85° | 566 | 2327 | 5221 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 195.9 | 10.6 |
| 10°-20° | 492.3 | 26.7 |
| 20°-30° | 554.2 | 30.1 |
| 30°-40° | 343.1 | 18.6 |
| 40°-50° | 136.6 | 7.4 |
| 50°-60° | 62.2 | 3.4 |
| 60°-70° | 35.8 | 1.9 |
| 70°-80° | 17.0 | 0.9 |
| 80°-90° | 4.9 | 0.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 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° | 1242.3 | 67.4 |
| 0°-40° | 1585.4 | 86.1 |
| 0°-60° | 1784.3 | 96.9 |
| 0°-90° | 1842.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1842.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2140 | 2140 | 2140 | 2140 | 2140 | |
| 5° | 2212 | 2172 | 2081 | 2036 | 2034 | 208 |
| 15° | 1960 | 1876 | 1730 | 1660 | 1655 | 542 |
| 25° | 1306 | 1271 | 1187 | 1216 | 1236 | 587 |
| 35° | 506 | 503 | 458 | 638 | 675 | 325 |
| 45° | 120 | 120 | 114 | 249 | 264 | 102 |
| 55° | 20 | 19 | 24 | 148 | 168 | 20 |
| 65° | 9 | 8 | 12 | 82 | 83 | 9 |
| 75° | 5 | 5 | 6 | 35 | 36 | 5 |
| 85° | 1 | 1 | 4 | 8 | 8 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799457

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2139.5 | 2139.5 | 2139.5 | 2139.5 | 2139.5 | 2139.5 | 2139.5 | 2139.5 | 2139.5 |
| 2.5° | 2188.4 | 2168.1 | 2163.5 | 2145.9 | 2116.4 | 2099.8 | 2089.6 | 2082.2 | 2095.2 |
| 5° | 2212.4 | 2190.2 | 2171.8 | 2135.8 | 2081.3 | 2050.9 | 2036.1 | 2024.1 | 2034.2 |
| 7.5° | 2194.8 | 2163.5 | 2138.5 | 2088.7 | 2019.5 | 1972.4 | 1952.1 | 1938.3 | 1947.5 |
| 10° | 2131.2 | 2093.3 | 2064.7 | 2005.6 | 1929.9 | 1873.6 | 1848.7 | 1835.8 | 1845.0 |
| 12.5° | 2048.1 | 2016.7 | 1973.3 | 1908.7 | 1827.5 | 1768.4 | 1750.0 | 1739.8 | 1743.5 |
| 15° | 1960.4 | 1923.5 | 1875.5 | 1810.9 | 1729.7 | 1670.6 | 1659.5 | 1653.1 | 1654.9 |
| 17.5° | 1833.0 | 1797.0 | 1755.5 | 1692.7 | 1618.0 | 1570.0 | 1570.0 | 1565.4 | 1568.1 |
| 20° | 1674.3 | 1654.9 | 1614.3 | 1561.7 | 1498.0 | 1454.6 | 1468.5 | 1463.8 | 1469.4 |
| 22.5° | 1502.6 | 1487.8 | 1452.8 | 1409.4 | 1355.9 | 1321.7 | 1352.2 | 1351.2 | 1358.6 |
| 25° | 1306.0 | 1294.9 | 1270.9 | 1234.0 | 1186.9 | 1165.7 | 1216.5 | 1216.5 | 1235.9 |
| 27.5° | 1089.1 | 1078.0 | 1061.4 | 1030.0 | 991.3 | 984.8 | 1059.6 | 1068.8 | 1090.0 |
| 30° | 867.6 | 860.2 | 851.0 | 822.4 | 790.1 | 802.1 | 905.4 | 921.1 | 945.1 |
| 32.5° | 670.1 | 665.5 | 662.7 | 636.9 | 608.2 | 647.9 | 766.1 | 786.4 | 810.4 |
| 35° | 505.8 | 495.6 | 503.0 | 483.6 | 457.8 | 507.6 | 637.8 | 655.3 | 674.7 |
| 37.5° | 372.9 | 365.5 | 372.0 | 358.1 | 335.0 | 389.5 | 512.3 | 523.3 | 536.2 |
| 40° | 267.7 | 261.2 | 266.7 | 258.4 | 240.0 | 290.7 | 401.5 | 413.5 | 419.0 |
| 42.5° | 190.1 | 179.1 | 184.6 | 178.1 | 168.9 | 218.7 | 315.7 | 326.7 | 328.6 |
| 45° | 120.0 | 116.3 | 120.0 | 116.3 | 114.4 | 162.4 | 249.2 | 259.4 | 264.0 |
| 47.5° | 72.9 | 68.3 | 68.3 | 66.5 | 68.3 | 120.0 | 205.8 | 220.6 | 228.0 |
| 50° | 41.5 | 39.7 | 38.8 | 37.8 | 41.5 | 94.1 | 178.1 | 194.7 | 204.0 |
| 52.5° | 27.7 | 26.8 | 26.8 | 25.8 | 30.5 | 79.4 | 160.6 | 175.4 | 184.6 |
| 55° | 20.3 | 19.4 | 19.4 | 19.4 | 24.0 | 68.3 | 147.7 | 159.7 | 168.0 |
| 57.5° | 15.7 | 15.7 | 15.7 | 14.8 | 20.3 | 58.1 | 132.0 | 138.4 | 144.9 |
| 60° | 12.9 | 12.0 | 12.0 | 12.0 | 16.6 | 49.8 | 113.5 | 116.3 | 120.0 |
| 62.5° | 10.2 | 10.2 | 10.2 | 10.2 | 13.8 | 44.3 | 97.8 | 97.8 | 99.7 |
| 65° | 9.2 | 8.3 | 8.3 | 8.3 | 12.0 | 38.8 | 82.1 | 81.2 | 83.1 |
| 67.5° | 7.4 | 7.4 | 7.4 | 7.4 | 10.2 | 33.2 | 67.4 | 66.5 | 68.3 |
| 70° | 6.5 | 6.5 | 6.5 | 6.5 | 8.3 | 27.7 | 54.5 | 53.5 | 55.4 |
| 72.5° | 5.5 | 5.5 | 5.5 | 5.5 | 7.4 | 23.1 | 43.4 | 43.4 | 44.3 |
| 75° | 4.6 | 4.6 | 4.6 | 4.6 | 6.5 | 17.5 | 35.1 | 35.1 | 36.0 |
| 77.5° | 3.7 | 3.7 | 3.7 | 3.7 | 4.6 | 13.8 | 26.8 | 25.8 | 25.8 |
| 80° | 1.8 | 2.8 | 2.8 | 2.8 | 3.7 | 10.2 | 19.4 | 17.5 | 17.5 |
| 82.5° | 0.9 | 1.8 | 1.8 | 1.8 | 3.7 | 7.4 | 12.9 | 12.0 | 12.0 |
| 85° | 0.9 | 0.9 | 0.9 | 2.8 | 3.7 | 5.5 | 8.3 | 8.3 | 8.3 |
| 87.5° | 0.0 | 0.9 | 1.8 | 3.7 | 4.6 | 4.6 | 5.5 | 4.6 | 4.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)