

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: P799433

Luminaire Tested: **LD6C20D010 EU6209030 6LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799433
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 EU6209030 6LBMDSWMW
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

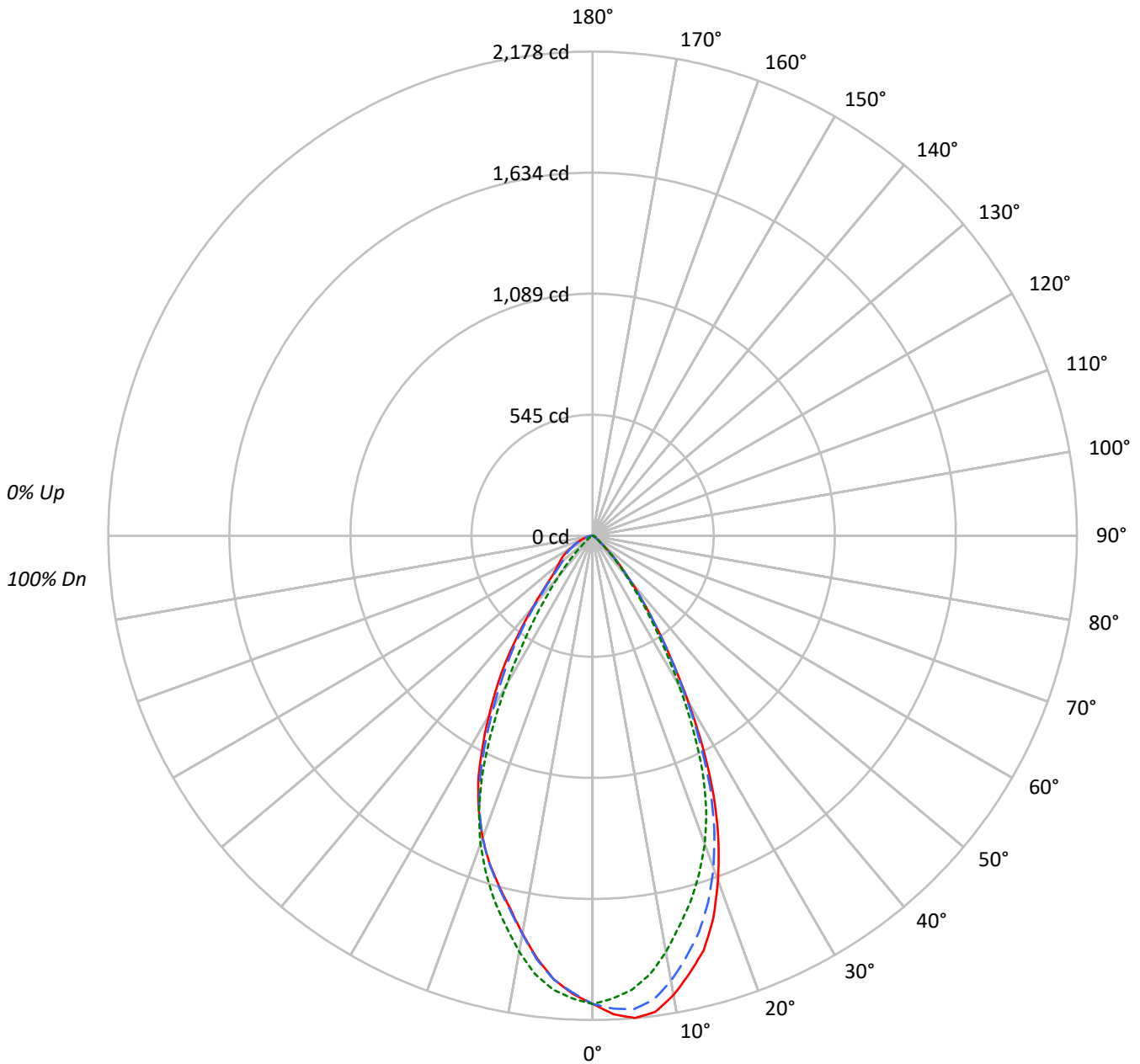
Lumens per Lamp: N/A
Luminaire Lumens: 1813.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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





TEST NUMBER: P799433

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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 | | | | |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 97 | 95 | 94 | 92 | | | | 92 | | | | |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 93 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 | | | | 85 | | | | |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 85 | 83 | 80 | 78 | | | | 78 | | | | |
| 4 | 96 | 88 | 82 | 77 | 94 | 87 | 81 | 77 | 84 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 73 | | | | 73 | | | | |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 67 | | | | 67 | | | | |
| 6 | 86 | 77 | 70 | 66 | 84 | 76 | 70 | 66 | 74 | 69 | 65 | 73 | 68 | 65 | 71 | 67 | 64 | 63 | | | | 63 | | | | |
| 7 | 82 | 72 | 66 | 61 | 80 | 71 | 65 | 61 | 70 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 59 | | | | 59 | | | | |
| 8 | 78 | 68 | 61 | 57 | 76 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 56 | 55 | | | | 55 | | | | |
| 9 | 74 | 64 | 58 | 54 | 73 | 63 | 58 | 54 | 62 | 57 | 53 | 61 | 57 | 53 | 61 | 56 | 53 | 52 | | | | 52 | | | | |
| 10 | 70 | 60 | 54 | 50 | 69 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 50 | 58 | 53 | 50 | 49 | | | | 49 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 115440 | 115440 | 115440 |
| 5° | 119827 | 112728 | 110180 |
| 10° | 116765 | 105743 | 101089 |
| 15° | 109507 | 96618 | 92441 |
| 20° | 96136 | 86014 | 84369 |
| 25° | 77757 | 70667 | 73577 |
| 30° | 54053 | 49223 | 58882 |
| 35° | 33314 | 30156 | 44444 |
| 40° | 18850 | 16903 | 29512 |
| 45° | 9156 | 8730 | 20142 |
| 50° | 3488 | 3488 | 17125 |
| 55° | 1912 | 2256 | 15799 |
| 60° | 1392 | 1798 | 12949 |
| 65° | 1180 | 1531 | 10611 |
| 70° | 1026 | 1314 | 8735 |
| 75° | 953 | 1356 | 7498 |
| 80° | 568 | 1137 | 5462 |
| 85° | 566 | 2264 | 5158 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 192.8 | 10.6 |
| 10°-20° | 484.5 | 26.7 |
| 20°-30° | 545.4 | 30.1 |
| 30°-40° | 337.7 | 18.6 |
| 40°-50° | 134.5 | 7.4 |
| 50°-60° | 61.2 | 3.4 |
| 60°-70° | 35.2 | 1.9 |
| 70°-80° | 16.7 | 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° | 1222.7 | 67.4 |
| 0°-40° | 1560.5 | 86.1 |
| 0°-60° | 1756.2 | 96.9 |
| 0°-90° | 1813.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1813.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2106 | 2106 | 2106 | 2106 | 2106 | |
| 5° | 2178 | 2138 | 2048 | 2004 | 2002 | 205 |
| 15° | 1930 | 1846 | 1702 | 1633 | 1629 | 534 |
| 25° | 1286 | 1251 | 1168 | 1197 | 1216 | 578 |
| 35° | 498 | 495 | 451 | 628 | 664 | 320 |
| 45° | 118 | 118 | 113 | 245 | 260 | 100 |
| 55° | 20 | 19 | 24 | 145 | 165 | 20 |
| 65° | 9 | 8 | 12 | 81 | 82 | 9 |
| 75° | 4 | 4 | 6 | 34 | 35 | 5 |
| 85° | 1 | 1 | 4 | 8 | 8 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799433

CATALOG NUMBER: LD6C20D010 EU6209030 6LBMSWMW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2105.8 | 2105.8 | 2105.8 | 2105.8 | 2105.8 | 2105.8 | 2105.8 | 2105.8 | 2105.8 |
| 2.5° | 2153.9 | 2133.9 | 2129.4 | 2112.1 | 2083.1 | 2066.7 | 2056.7 | 2049.5 | 2062.2 |
| 5° | 2177.5 | 2155.7 | 2137.6 | 2102.1 | 2048.5 | 2018.6 | 2004.0 | 1992.2 | 2002.2 |
| 7.5° | 2160.3 | 2129.4 | 2104.9 | 2055.8 | 1987.7 | 1941.3 | 1921.4 | 1907.7 | 1916.8 |
| 10° | 2097.6 | 2060.4 | 2032.2 | 1974.1 | 1899.6 | 1844.1 | 1819.6 | 1806.9 | 1816.0 |
| 12.5° | 2015.8 | 1985.0 | 1942.3 | 1878.7 | 1798.7 | 1740.6 | 1722.4 | 1712.4 | 1716.1 |
| 15° | 1929.5 | 1893.2 | 1846.0 | 1782.4 | 1702.4 | 1644.3 | 1633.4 | 1627.0 | 1628.8 |
| 17.5° | 1804.2 | 1768.7 | 1727.9 | 1666.1 | 1592.5 | 1545.3 | 1545.3 | 1540.7 | 1543.4 |
| 20° | 1647.9 | 1628.8 | 1588.9 | 1537.1 | 1474.4 | 1431.7 | 1445.3 | 1440.8 | 1446.2 |
| 22.5° | 1478.9 | 1464.4 | 1429.9 | 1387.2 | 1334.5 | 1300.9 | 1330.9 | 1330.0 | 1337.2 |
| 25° | 1285.5 | 1274.5 | 1250.9 | 1214.6 | 1168.3 | 1147.4 | 1197.3 | 1197.3 | 1216.4 |
| 27.5° | 1072.0 | 1061.1 | 1044.7 | 1013.8 | 975.7 | 969.3 | 1042.9 | 1052.0 | 1072.9 |
| 30° | 853.9 | 846.7 | 837.6 | 809.4 | 777.6 | 789.4 | 891.2 | 906.6 | 930.2 |
| 32.5° | 659.5 | 655.0 | 652.3 | 626.8 | 598.7 | 637.7 | 754.0 | 774.0 | 797.6 |
| 35° | 497.8 | 487.8 | 495.1 | 476.0 | 450.6 | 499.6 | 627.7 | 645.0 | 664.1 |
| 37.5° | 367.0 | 359.7 | 366.1 | 352.5 | 329.8 | 383.4 | 504.2 | 515.1 | 527.8 |
| 40° | 263.4 | 257.1 | 262.5 | 254.4 | 236.2 | 286.2 | 395.2 | 407.0 | 412.4 |
| 42.5° | 187.1 | 176.2 | 181.7 | 175.3 | 166.2 | 215.3 | 310.7 | 321.6 | 323.4 |
| 45° | 118.1 | 114.5 | 118.1 | 114.5 | 112.6 | 159.9 | 245.3 | 255.3 | 259.8 |
| 47.5° | 71.8 | 67.2 | 67.2 | 65.4 | 67.2 | 118.1 | 202.6 | 217.1 | 224.4 |
| 50° | 40.9 | 39.1 | 38.2 | 37.2 | 40.9 | 92.7 | 175.3 | 191.7 | 200.8 |
| 52.5° | 27.3 | 26.3 | 26.3 | 25.4 | 30.0 | 78.1 | 158.1 | 172.6 | 181.7 |
| 55° | 20.0 | 19.1 | 19.1 | 19.1 | 23.6 | 67.2 | 145.4 | 157.2 | 165.3 |
| 57.5° | 15.4 | 15.4 | 15.4 | 14.5 | 20.0 | 57.2 | 129.9 | 136.3 | 142.6 |
| 60° | 12.7 | 11.8 | 11.8 | 11.8 | 16.4 | 49.1 | 111.7 | 114.5 | 118.1 |
| 62.5° | 10.0 | 10.0 | 10.0 | 10.0 | 13.6 | 43.6 | 96.3 | 96.3 | 98.1 |
| 65° | 9.1 | 8.2 | 8.2 | 8.2 | 11.8 | 38.2 | 80.9 | 79.9 | 81.8 |
| 67.5° | 7.3 | 7.3 | 7.3 | 7.3 | 10.0 | 32.7 | 66.3 | 65.4 | 67.2 |
| 70° | 6.4 | 6.4 | 6.4 | 6.4 | 8.2 | 27.3 | 53.6 | 52.7 | 54.5 |
| 72.5° | 5.5 | 5.5 | 5.5 | 5.5 | 7.3 | 22.7 | 42.7 | 42.7 | 43.6 |
| 75° | 4.5 | 4.5 | 4.5 | 4.5 | 6.4 | 17.3 | 34.5 | 34.5 | 35.4 |
| 77.5° | 3.6 | 3.6 | 3.6 | 3.6 | 4.5 | 13.6 | 26.3 | 25.4 | 25.4 |
| 80° | 1.8 | 2.7 | 2.7 | 2.7 | 3.6 | 10.0 | 19.1 | 17.3 | 17.3 |
| 82.5° | 0.9 | 1.8 | 1.8 | 1.8 | 3.6 | 7.3 | 12.7 | 11.8 | 11.8 |
| 85° | 0.9 | 0.9 | 0.9 | 2.7 | 3.6 | 5.5 | 8.2 | 8.2 | 8.2 |
| 87.5° | 0.0 | 0.9 | 1.8 | 3.6 | 4.5 | 4.5 | 5.5 | 4.5 | 4.5 |
| 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)