

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: P799427

Luminaire Tested: **LD6C20D010 EU6209030 6LBMDDWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C20D010 EU6209030 6LBMDDWMW
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

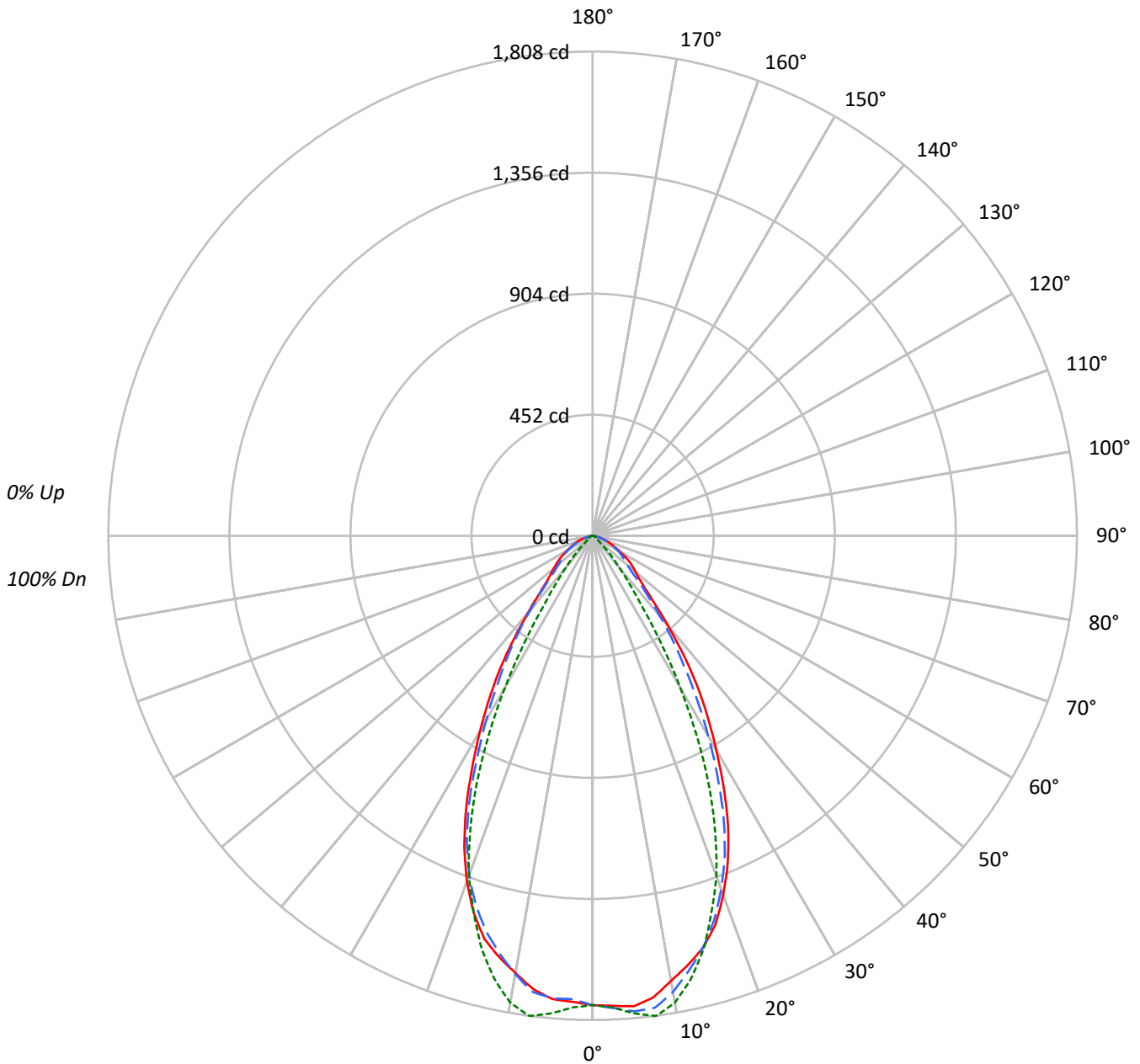
Lumens per Lamp: N/A
Luminaire Lumens: 1784.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | | | | |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | | 91 | | | | |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 83 | | | | 83 | | | | |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 78 | 76 | | | | 76 | | | | |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 78 | 74 | 82 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 70 | | | | 70 | | | | |
| 5 | 89 | 79 | 73 | 68 | 87 | 78 | 72 | 68 | 76 | 71 | 67 | 75 | 70 | 66 | 73 | 69 | 66 | 64 | | | | 64 | | | | |
| 6 | 84 | 74 | 67 | 62 | 82 | 73 | 67 | 62 | 71 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 | | | | 59 | | | | |
| 7 | 79 | 69 | 62 | 58 | 78 | 68 | 62 | 58 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 55 | | | | 55 | | | | |
| 8 | 75 | 65 | 58 | 54 | 74 | 64 | 58 | 54 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 51 | | | | 51 | | | | |
| 9 | 71 | 61 | 55 | 50 | 70 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 50 | 58 | 53 | 50 | 48 | | | | 48 | | | | |
| 10 | 68 | 57 | 51 | 47 | 67 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 55 | 50 | 47 | 45 | | | | 45 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 96067 | 96067 | 96067 |
| 5° | 97067 | 98541 | 95548 |
| 10° | 93925 | 98540 | 92288 |
| 15° | 90398 | 90750 | 88474 |
| 20° | 83196 | 78833 | 80081 |
| 25° | 72409 | 62163 | 67449 |
| 30° | 58395 | 41304 | 52983 |
| 35° | 45273 | 21295 | 39786 |
| 40° | 31065 | 11035 | 26793 |
| 45° | 21281 | 5528 | 18793 |
| 50° | 17714 | 2354 | 16119 |
| 55° | 15933 | 2045 | 14394 |
| 60° | 12609 | 1952 | 12017 |
| 65° | 10403 | 1738 | 10286 |
| 70° | 8431 | 1571 | 8431 |
| 75° | 6227 | 1694 | 6608 |
| 80° | 3662 | 1421 | 3946 |
| 85° | 2830 | 1698 | 2830 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 166.8 | 9.4 |
| 10°-20° | 437.8 | 24.5 |
| 20°-30° | 499.7 | 28.0 |
| 30°-40° | 331.4 | 18.6 |
| 40°-50° | 159.8 | 9.0 |
| 50°-60° | 98.3 | 5.5 |
| 60°-70° | 59.5 | 3.3 |
| 70°-80° | 25.0 | 1.4 |
| 80°-90° | 5.5 | 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° | 1104.4 | 61.9 |
| 0°-40° | 1435.8 | 80.5 |
| 0°-60° | 1693.9 | 95.0 |
| 0°-90° | 1784.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1784.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1752 | 1752 | 1752 | 1752 | 1752 | |
| 5° | 1764 | 1783 | 1791 | 1734 | 1736 | 166 |
| 15° | 1593 | 1593 | 1599 | 1531 | 1559 | 444 |
| 25° | 1197 | 1157 | 1028 | 1087 | 1115 | 543 |
| 35° | 676 | 596 | 318 | 556 | 594 | 418 |
| 45° | 274 | 241 | 71 | 225 | 242 | 224 |
| 55° | 167 | 136 | 21 | 136 | 151 | 147 |
| 65° | 80 | 77 | 13 | 72 | 79 | 81 |
| 75° | 29 | 29 | 8 | 28 | 31 | 31 |
| 85° | 4 | 6 | 3 | 4 | 4 | 6 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: LD6C20D010 EU6209030 6LBMDDWMW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1752.4 | 1752.4 | 1752.4 | 1752.4 | 1752.4 | 1752.4 | 1752.4 | 1752.4 | 1752.4 |
| 2.5° | 1756.8 | 1759.5 | 1764.8 | 1765.7 | 1763.1 | 1746.1 | 1731.9 | 1737.2 | 1741.7 |
| 5° | 1763.9 | 1769.3 | 1782.7 | 1795.1 | 1790.7 | 1762.2 | 1733.6 | 1732.7 | 1736.3 |
| 7.5° | 1738.1 | 1750.6 | 1778.2 | 1809.4 | 1808.5 | 1759.5 | 1717.6 | 1706.9 | 1706.9 |
| 10° | 1687.3 | 1698.9 | 1729.2 | 1771.1 | 1770.2 | 1708.7 | 1662.3 | 1657.0 | 1657.9 |
| 12.5° | 1641.8 | 1647.2 | 1662.3 | 1695.3 | 1695.3 | 1634.7 | 1599.0 | 1604.4 | 1611.5 |
| 15° | 1592.8 | 1596.4 | 1592.8 | 1603.5 | 1599.0 | 1549.1 | 1531.3 | 1548.2 | 1558.9 |
| 17.5° | 1523.3 | 1525.1 | 1506.4 | 1492.1 | 1475.2 | 1444.0 | 1448.4 | 1473.4 | 1476.0 |
| 20° | 1426.1 | 1437.7 | 1403.8 | 1367.3 | 1351.3 | 1321.8 | 1346.8 | 1374.4 | 1372.7 |
| 22.5° | 1319.2 | 1332.5 | 1288.9 | 1228.3 | 1195.3 | 1183.7 | 1228.3 | 1253.2 | 1252.3 |
| 25° | 1197.1 | 1206.9 | 1156.9 | 1072.3 | 1027.7 | 1025.9 | 1087.4 | 1113.3 | 1115.1 |
| 27.5° | 1059.8 | 1063.4 | 1007.2 | 896.7 | 841.4 | 854.8 | 932.3 | 968.0 | 972.4 |
| 30° | 922.5 | 920.7 | 862.8 | 725.5 | 652.5 | 689.0 | 793.3 | 832.5 | 837.0 |
| 32.5° | 796.9 | 791.5 | 725.5 | 561.5 | 474.2 | 528.6 | 665.8 | 706.8 | 714.0 |
| 35° | 676.5 | 667.6 | 596.3 | 415.4 | 318.2 | 399.3 | 556.2 | 591.8 | 594.5 |
| 37.5° | 550.8 | 546.4 | 490.2 | 311.1 | 221.9 | 303.1 | 453.7 | 479.5 | 476.9 |
| 40° | 434.1 | 434.1 | 387.7 | 230.9 | 154.2 | 225.5 | 359.2 | 382.4 | 374.4 |
| 42.5° | 340.5 | 344.9 | 305.7 | 170.2 | 109.6 | 167.6 | 284.3 | 305.7 | 296.8 |
| 45° | 274.5 | 274.5 | 240.7 | 126.6 | 71.3 | 124.8 | 224.6 | 244.2 | 242.4 |
| 47.5° | 232.6 | 229.1 | 195.2 | 92.7 | 39.2 | 93.6 | 189.0 | 213.0 | 212.1 |
| 50° | 207.7 | 202.3 | 167.6 | 73.1 | 27.6 | 77.5 | 165.8 | 188.1 | 189.0 |
| 52.5° | 188.1 | 180.0 | 150.6 | 65.1 | 24.1 | 67.7 | 150.6 | 168.5 | 168.5 |
| 55° | 166.7 | 162.2 | 135.5 | 57.9 | 21.4 | 60.6 | 135.5 | 151.5 | 150.6 |
| 57.5° | 140.8 | 139.9 | 121.2 | 52.6 | 19.6 | 53.5 | 121.2 | 131.0 | 127.5 |
| 60° | 115.0 | 118.5 | 105.2 | 47.2 | 17.8 | 48.1 | 103.4 | 111.4 | 109.6 |
| 62.5° | 96.3 | 100.7 | 91.8 | 41.9 | 15.2 | 42.8 | 87.4 | 95.4 | 93.6 |
| 65° | 80.2 | 83.8 | 76.7 | 35.7 | 13.4 | 35.7 | 72.2 | 79.3 | 79.3 |
| 67.5° | 66.0 | 68.6 | 63.3 | 29.4 | 11.6 | 29.4 | 58.8 | 65.1 | 66.0 |
| 70° | 52.6 | 54.4 | 49.9 | 23.2 | 9.8 | 24.1 | 46.3 | 52.6 | 52.6 |
| 72.5° | 41.0 | 41.9 | 39.2 | 18.7 | 8.9 | 18.7 | 35.7 | 41.0 | 41.0 |
| 75° | 29.4 | 31.2 | 29.4 | 14.3 | 8.0 | 14.3 | 27.6 | 30.3 | 31.2 |
| 77.5° | 16.9 | 21.4 | 21.4 | 11.6 | 6.2 | 10.7 | 19.6 | 20.5 | 20.5 |
| 80° | 11.6 | 13.4 | 15.2 | 8.0 | 4.5 | 8.0 | 12.5 | 13.4 | 12.5 |
| 82.5° | 8.0 | 8.9 | 8.9 | 5.3 | 3.6 | 5.3 | 8.0 | 8.9 | 8.0 |
| 85° | 4.5 | 6.2 | 6.2 | 4.5 | 2.7 | 3.6 | 4.5 | 5.3 | 4.5 |
| 87.5° | 2.7 | 3.6 | 4.5 | 3.6 | 2.7 | 2.7 | 2.7 | 2.7 | 1.8 |
| 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)