

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: P799532

Luminaire Tested: **LD6C30D010 EU6309027 6LBMDDWGPB**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799532
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: LD6C30D010 EU6309027 6LBMDDWGPH
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

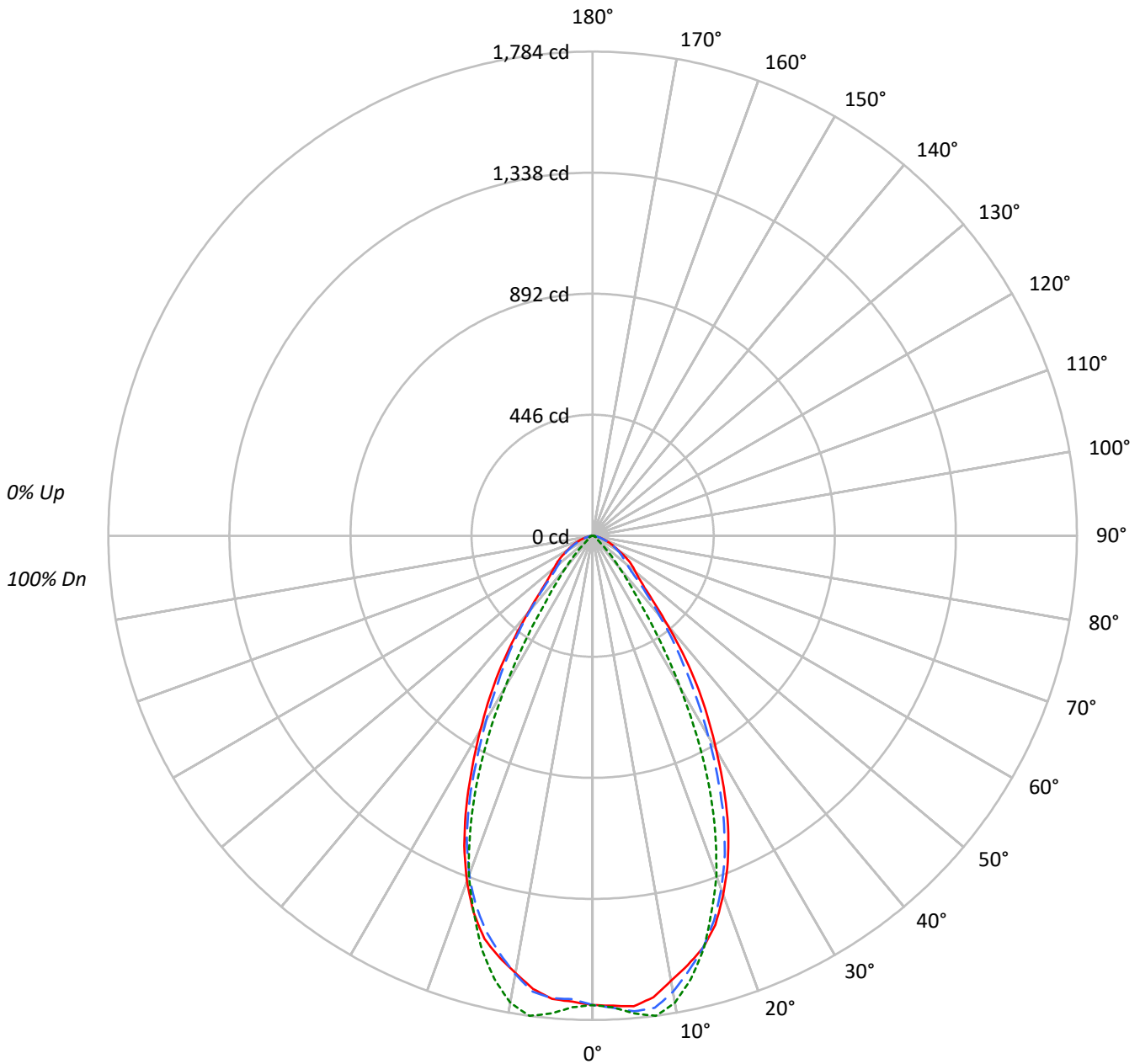
Lumens per Lamp: N/A
Luminaire Lumens: 1760.0 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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 | 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° | 94773 | 94773 | 94773 |
| 5° | 95762 | 97215 | 94266 |
| 10° | 92661 | 97215 | 91047 |
| 15° | 89183 | 89529 | 87288 |
| 20° | 82076 | 77771 | 79002 |
| 25° | 71436 | 61328 | 66542 |
| 30° | 57610 | 40747 | 52268 |
| 35° | 44664 | 21007 | 39250 |
| 40° | 30643 | 10885 | 26428 |
| 45° | 20994 | 5450 | 18545 |
| 50° | 17475 | 2328 | 15897 |
| 55° | 15713 | 2017 | 14203 |
| 60° | 12433 | 1930 | 11863 |
| 65° | 10261 | 1712 | 10157 |
| 70° | 8319 | 1555 | 8319 |
| 75° | 6142 | 1673 | 6524 |
| 80° | 3599 | 1389 | 3883 |
| 85° | 2768 | 1635 | 2768 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 164.6 | 9.4 |
| 10°-20° | 431.9 | 24.5 |
| 20°-30° | 493.0 | 28.0 |
| 30°-40° | 327.0 | 18.6 |
| 40°-50° | 157.7 | 9.0 |
| 50°-60° | 97.0 | 5.5 |
| 60°-70° | 58.7 | 3.3 |
| 70°-80° | 24.7 | 1.4 |
| 80°-90° | 5.4 | 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° | 1089.5 | 61.9 |
| 0°-40° | 1416.5 | 80.5 |
| 0°-60° | 1671.2 | 95.0 |
| 0°-90° | 1760.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1760.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1729 | 1729 | 1729 | 1729 | 1729 | |
| 5° | 1740 | 1759 | 1767 | 1710 | 1713 | 164 |
| 15° | 1571 | 1571 | 1578 | 1511 | 1538 | 438 |
| 25° | 1181 | 1141 | 1014 | 1073 | 1100 | 535 |
| 35° | 667 | 588 | 314 | 549 | 586 | 413 |
| 45° | 271 | 237 | 70 | 222 | 239 | 221 |
| 55° | 164 | 134 | 21 | 134 | 149 | 145 |
| 65° | 79 | 76 | 13 | 71 | 78 | 79 |
| 75° | 29 | 29 | 8 | 27 | 31 | 31 |
| 85° | 4 | 6 | 3 | 4 | 4 | 6 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799532

CATALOG NUMBER: LD6C30D010 EU6309027 6LBMDDWGPH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1728.8 | 1728.8 | 1728.8 | 1728.8 | 1728.8 | 1728.8 | 1728.8 | 1728.8 | 1728.8 |
| 2.5° | 1733.2 | 1735.8 | 1741.1 | 1742.0 | 1739.3 | 1722.6 | 1708.6 | 1713.8 | 1718.2 |
| 5° | 1740.2 | 1745.5 | 1758.7 | 1771.0 | 1766.6 | 1738.5 | 1710.3 | 1709.4 | 1713.0 |
| 7.5° | 1714.7 | 1727.0 | 1754.3 | 1785.1 | 1784.2 | 1735.8 | 1694.5 | 1683.9 | 1683.9 |
| 10° | 1664.6 | 1676.0 | 1705.9 | 1747.3 | 1746.4 | 1685.7 | 1640.0 | 1634.7 | 1635.6 |
| 12.5° | 1619.7 | 1625.0 | 1640.0 | 1672.5 | 1672.5 | 1612.7 | 1577.5 | 1582.8 | 1589.8 |
| 15° | 1571.4 | 1574.9 | 1571.4 | 1581.9 | 1577.5 | 1528.3 | 1510.7 | 1527.4 | 1538.0 |
| 17.5° | 1502.8 | 1504.6 | 1486.1 | 1472.0 | 1455.3 | 1424.5 | 1428.9 | 1453.6 | 1456.2 |
| 20° | 1406.9 | 1418.4 | 1385.0 | 1348.9 | 1333.1 | 1304.1 | 1328.7 | 1355.9 | 1354.2 |
| 22.5° | 1301.4 | 1314.6 | 1271.5 | 1211.7 | 1179.2 | 1167.8 | 1211.7 | 1236.4 | 1235.5 |
| 25° | 1181.0 | 1190.6 | 1141.4 | 1057.8 | 1013.9 | 1012.1 | 1072.8 | 1098.3 | 1100.1 |
| 27.5° | 1045.5 | 1049.1 | 993.7 | 884.6 | 830.1 | 843.3 | 919.8 | 955.0 | 959.4 |
| 30° | 910.1 | 908.4 | 851.2 | 715.8 | 643.7 | 679.7 | 782.6 | 821.3 | 825.7 |
| 32.5° | 786.1 | 780.9 | 715.8 | 554.0 | 467.8 | 521.4 | 656.9 | 697.3 | 704.4 |
| 35° | 667.4 | 658.6 | 588.3 | 409.8 | 313.9 | 393.9 | 548.7 | 583.9 | 586.5 |
| 37.5° | 543.4 | 539.0 | 483.6 | 306.9 | 219.0 | 299.0 | 447.6 | 473.1 | 470.4 |
| 40° | 428.2 | 428.2 | 382.5 | 227.7 | 152.1 | 222.5 | 354.4 | 377.2 | 369.3 |
| 42.5° | 335.9 | 340.3 | 301.6 | 168.0 | 108.2 | 165.3 | 280.5 | 301.6 | 292.8 |
| 45° | 270.8 | 270.8 | 237.4 | 124.9 | 70.3 | 123.1 | 221.6 | 240.9 | 239.2 |
| 47.5° | 229.5 | 226.0 | 192.6 | 91.5 | 38.7 | 92.3 | 186.4 | 210.2 | 209.3 |
| 50° | 204.9 | 199.6 | 165.3 | 72.1 | 27.3 | 76.5 | 163.6 | 185.5 | 186.4 |
| 52.5° | 185.5 | 177.6 | 148.6 | 64.2 | 23.7 | 66.8 | 148.6 | 166.2 | 166.2 |
| 55° | 164.4 | 160.0 | 133.7 | 57.2 | 21.1 | 59.8 | 133.7 | 149.5 | 148.6 |
| 57.5° | 138.9 | 138.1 | 119.6 | 51.9 | 19.3 | 52.8 | 119.6 | 129.3 | 125.7 |
| 60° | 113.4 | 117.0 | 103.8 | 46.6 | 17.6 | 47.5 | 102.0 | 109.9 | 108.2 |
| 62.5° | 95.0 | 99.4 | 90.6 | 41.3 | 14.9 | 42.2 | 86.2 | 94.1 | 92.3 |
| 65° | 79.1 | 82.7 | 75.6 | 35.2 | 13.2 | 35.2 | 71.2 | 78.3 | 78.3 |
| 67.5° | 65.1 | 67.7 | 62.4 | 29.0 | 11.4 | 29.0 | 58.0 | 64.2 | 65.1 |
| 70° | 51.9 | 53.6 | 49.2 | 22.9 | 9.7 | 23.7 | 45.7 | 51.9 | 51.9 |
| 72.5° | 40.4 | 41.3 | 38.7 | 18.5 | 8.8 | 18.5 | 35.2 | 40.4 | 40.4 |
| 75° | 29.0 | 30.8 | 29.0 | 14.1 | 7.9 | 14.1 | 27.3 | 29.9 | 30.8 |
| 77.5° | 16.7 | 21.1 | 21.1 | 11.4 | 6.2 | 10.6 | 19.3 | 20.2 | 20.2 |
| 80° | 11.4 | 13.2 | 14.9 | 7.9 | 4.4 | 7.9 | 12.3 | 13.2 | 12.3 |
| 82.5° | 7.9 | 8.8 | 8.8 | 5.3 | 3.5 | 5.3 | 7.9 | 8.8 | 7.9 |
| 85° | 4.4 | 6.2 | 6.2 | 4.4 | 2.6 | 3.5 | 4.4 | 5.3 | 4.4 |
| 87.5° | 2.6 | 3.5 | 4.4 | 3.5 | 2.6 | 2.6 | 2.6 | 2.6 | 1.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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







(END OF REPORT)