

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: P799538

Luminaire Tested: **LD6C30D010 EU6309027 6LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799538
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: LD6C30D010 EU6309027 6LBMDSWGPH
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

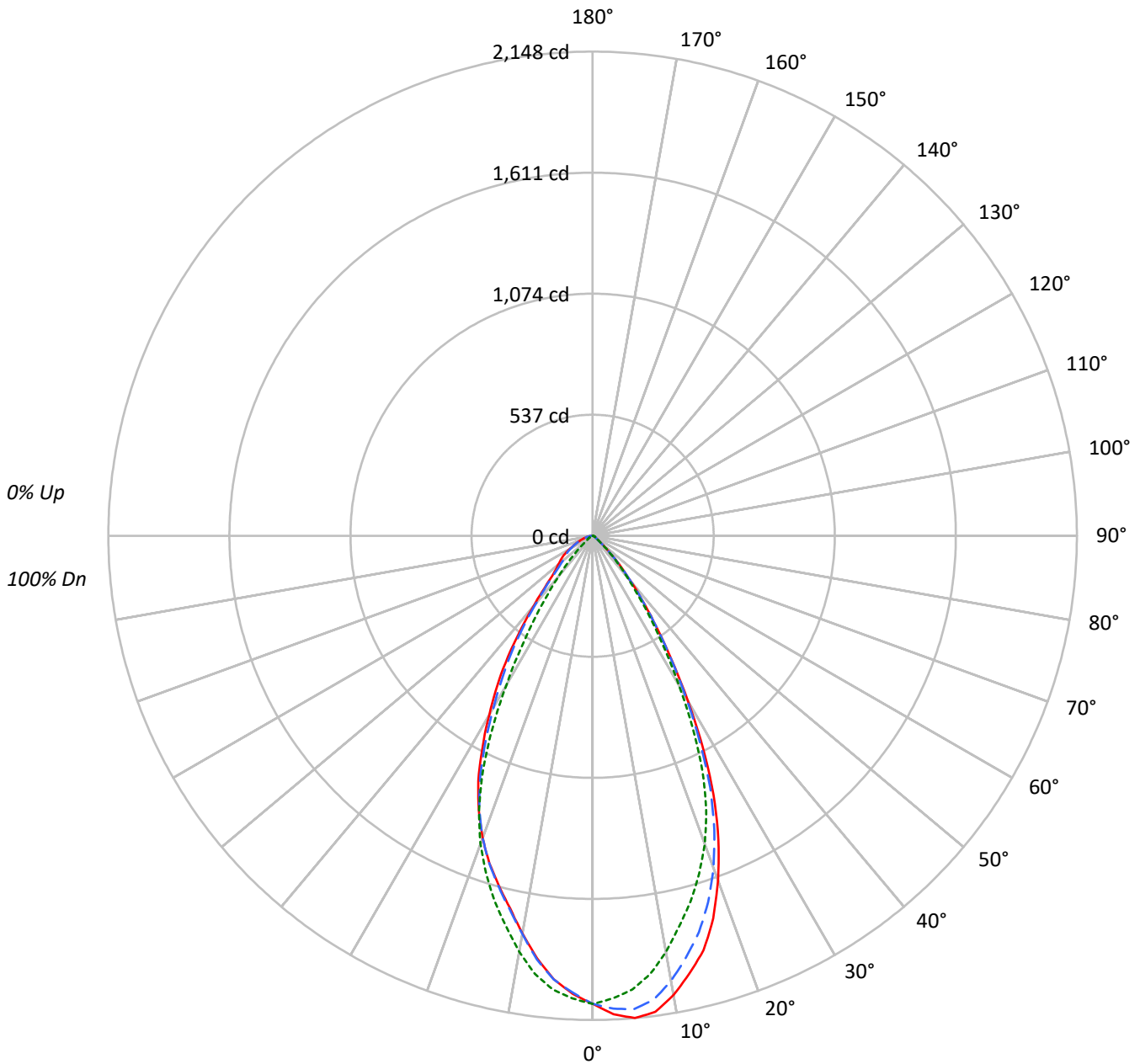
Lumens per Lamp: N/A
Luminaire Lumens: 1788.0 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | 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 | 57 | 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° | 113845 | 113845 | 113845 |
| 5° | 118176 | 111176 | 108661 |
| 10° | 115156 | 104284 | 99692 |
| 15° | 107997 | 95290 | 91170 |
| 20° | 94812 | 84830 | 83208 |
| 25° | 76680 | 69694 | 72561 |
| 30° | 53312 | 48545 | 58072 |
| 35° | 32859 | 29741 | 43828 |
| 40° | 18592 | 16667 | 29105 |
| 45° | 9032 | 8613 | 19863 |
| 50° | 3437 | 3437 | 16886 |
| 55° | 1883 | 2227 | 15588 |
| 60° | 1371 | 1765 | 12773 |
| 65° | 1167 | 1505 | 10455 |
| 70° | 1010 | 1298 | 8623 |
| 75° | 953 | 1334 | 7392 |
| 80° | 568 | 1137 | 5367 |
| 85° | 566 | 2264 | 5095 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 190.1 | 10.6 |
| 10°-20° | 477.8 | 26.7 |
| 20°-30° | 537.9 | 30.1 |
| 30°-40° | 333.1 | 18.6 |
| 40°-50° | 132.6 | 7.4 |
| 50°-60° | 60.4 | 3.4 |
| 60°-70° | 34.7 | 1.9 |
| 70°-80° | 16.5 | 0.9 |
| 80°-90° | 4.8 | 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° | 1205.9 | 67.4 |
| 0°-40° | 1539.0 | 86.1 |
| 0°-60° | 1732.0 | 96.9 |
| 0°-90° | 1788.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1788.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2077 | 2077 | 2077 | 2077 | 2077 | |
| 5° | 2148 | 2108 | 2020 | 1976 | 1975 | 202 |
| 15° | 1903 | 1820 | 1679 | 1611 | 1606 | 526 |
| 25° | 1268 | 1234 | 1152 | 1181 | 1200 | 570 |
| 35° | 491 | 488 | 444 | 619 | 655 | 316 |
| 45° | 116 | 116 | 111 | 242 | 256 | 99 |
| 55° | 20 | 19 | 23 | 143 | 163 | 20 |
| 65° | 9 | 8 | 12 | 80 | 81 | 9 |
| 75° | 4 | 4 | 6 | 34 | 35 | 5 |
| 85° | 1 | 1 | 4 | 8 | 8 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799538

CATALOG NUMBER: LD6C30D010 EU6309027 6LBMDSWGPB

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2076.7 | 2076.7 | 2076.7 | 2076.7 | 2076.7 | 2076.7 | 2076.7 | 2076.7 | 2076.7 |
| 2.5° | 2124.2 | 2104.5 | 2100.0 | 2083.0 | 2054.3 | 2038.2 | 2028.4 | 2021.2 | 2033.7 |
| 5° | 2147.5 | 2126.0 | 2108.1 | 2073.2 | 2020.3 | 1990.7 | 1976.4 | 1964.7 | 1974.6 |
| 7.5° | 2130.5 | 2100.0 | 2075.8 | 2027.5 | 1960.3 | 1914.6 | 1894.9 | 1881.4 | 1890.4 |
| 10° | 2068.7 | 2031.9 | 2004.2 | 1946.8 | 1873.4 | 1818.7 | 1794.5 | 1782.0 | 1790.9 |
| 12.5° | 1988.0 | 1957.6 | 1915.5 | 1852.8 | 1773.9 | 1716.6 | 1698.7 | 1688.8 | 1692.4 |
| 15° | 1902.9 | 1867.1 | 1820.5 | 1757.8 | 1679.0 | 1621.6 | 1610.9 | 1604.6 | 1606.4 |
| 17.5° | 1779.3 | 1744.4 | 1704.0 | 1643.1 | 1570.5 | 1524.0 | 1524.0 | 1519.5 | 1522.2 |
| 20° | 1625.2 | 1606.4 | 1567.0 | 1515.9 | 1454.1 | 1412.0 | 1425.4 | 1420.9 | 1426.3 |
| 22.5° | 1458.6 | 1444.2 | 1410.2 | 1368.1 | 1316.1 | 1283.0 | 1312.5 | 1311.6 | 1318.8 |
| 25° | 1267.7 | 1257.0 | 1233.7 | 1197.8 | 1152.2 | 1131.5 | 1180.8 | 1180.8 | 1199.6 |
| 27.5° | 1057.2 | 1046.4 | 1030.3 | 999.8 | 962.2 | 955.9 | 1028.5 | 1037.5 | 1058.1 |
| 30° | 842.2 | 835.0 | 826.0 | 798.3 | 766.9 | 778.6 | 878.9 | 894.1 | 917.4 |
| 32.5° | 650.4 | 646.0 | 643.3 | 618.2 | 590.4 | 628.9 | 743.6 | 763.3 | 786.6 |
| 35° | 491.0 | 481.1 | 488.3 | 469.5 | 444.4 | 492.8 | 619.1 | 636.1 | 654.9 |
| 37.5° | 362.0 | 354.8 | 361.1 | 347.6 | 325.2 | 378.1 | 497.2 | 508.0 | 520.5 |
| 40° | 259.8 | 253.5 | 258.9 | 250.9 | 232.9 | 282.2 | 389.7 | 401.4 | 406.7 |
| 42.5° | 184.6 | 173.8 | 179.2 | 172.9 | 164.0 | 212.3 | 306.4 | 317.2 | 318.9 |
| 45° | 116.5 | 112.9 | 116.5 | 112.9 | 111.1 | 157.7 | 241.9 | 251.8 | 256.2 |
| 47.5° | 70.8 | 66.3 | 66.3 | 64.5 | 66.3 | 116.5 | 199.8 | 214.1 | 221.3 |
| 50° | 40.3 | 38.5 | 37.6 | 36.7 | 40.3 | 91.4 | 172.9 | 189.0 | 198.0 |
| 52.5° | 26.9 | 26.0 | 26.0 | 25.1 | 29.6 | 77.0 | 155.9 | 170.2 | 179.2 |
| 55° | 19.7 | 18.8 | 18.8 | 18.8 | 23.3 | 66.3 | 143.3 | 155.0 | 163.1 |
| 57.5° | 15.2 | 15.2 | 15.2 | 14.3 | 19.7 | 56.4 | 128.1 | 134.4 | 140.7 |
| 60° | 12.5 | 11.6 | 11.6 | 11.6 | 16.1 | 48.4 | 110.2 | 112.9 | 116.5 |
| 62.5° | 9.9 | 9.9 | 9.9 | 9.9 | 13.4 | 43.0 | 95.0 | 95.0 | 96.8 |
| 65° | 9.0 | 8.1 | 8.1 | 8.1 | 11.6 | 37.6 | 79.7 | 78.8 | 80.6 |
| 67.5° | 7.2 | 7.2 | 7.2 | 7.2 | 9.9 | 32.3 | 65.4 | 64.5 | 66.3 |
| 70° | 6.3 | 6.3 | 6.3 | 6.3 | 8.1 | 26.9 | 52.9 | 52.0 | 53.8 |
| 72.5° | 5.4 | 5.4 | 5.4 | 5.4 | 7.2 | 22.4 | 42.1 | 42.1 | 43.0 |
| 75° | 4.5 | 4.5 | 4.5 | 4.5 | 6.3 | 17.0 | 34.0 | 34.0 | 34.9 |
| 77.5° | 3.6 | 3.6 | 3.6 | 3.6 | 4.5 | 13.4 | 26.0 | 25.1 | 25.1 |
| 80° | 1.8 | 2.7 | 2.7 | 2.7 | 3.6 | 9.9 | 18.8 | 17.0 | 17.0 |
| 82.5° | 0.9 | 1.8 | 1.8 | 1.8 | 3.6 | 7.2 | 12.5 | 11.6 | 11.6 |
| 85° | 0.9 | 0.9 | 0.9 | 2.7 | 3.6 | 5.4 | 8.1 | 8.1 | 8.1 |
| 87.5° | 0.0 | 0.9 | 1.8 | 3.6 | 4.5 | 4.5 | 5.4 | 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)