

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: P799525

Luminaire Tested: **LD6C25D010 EU6259050 6LBMDDWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799525
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: LD6C25D010 EU6259050 6LBMDDWWMH
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

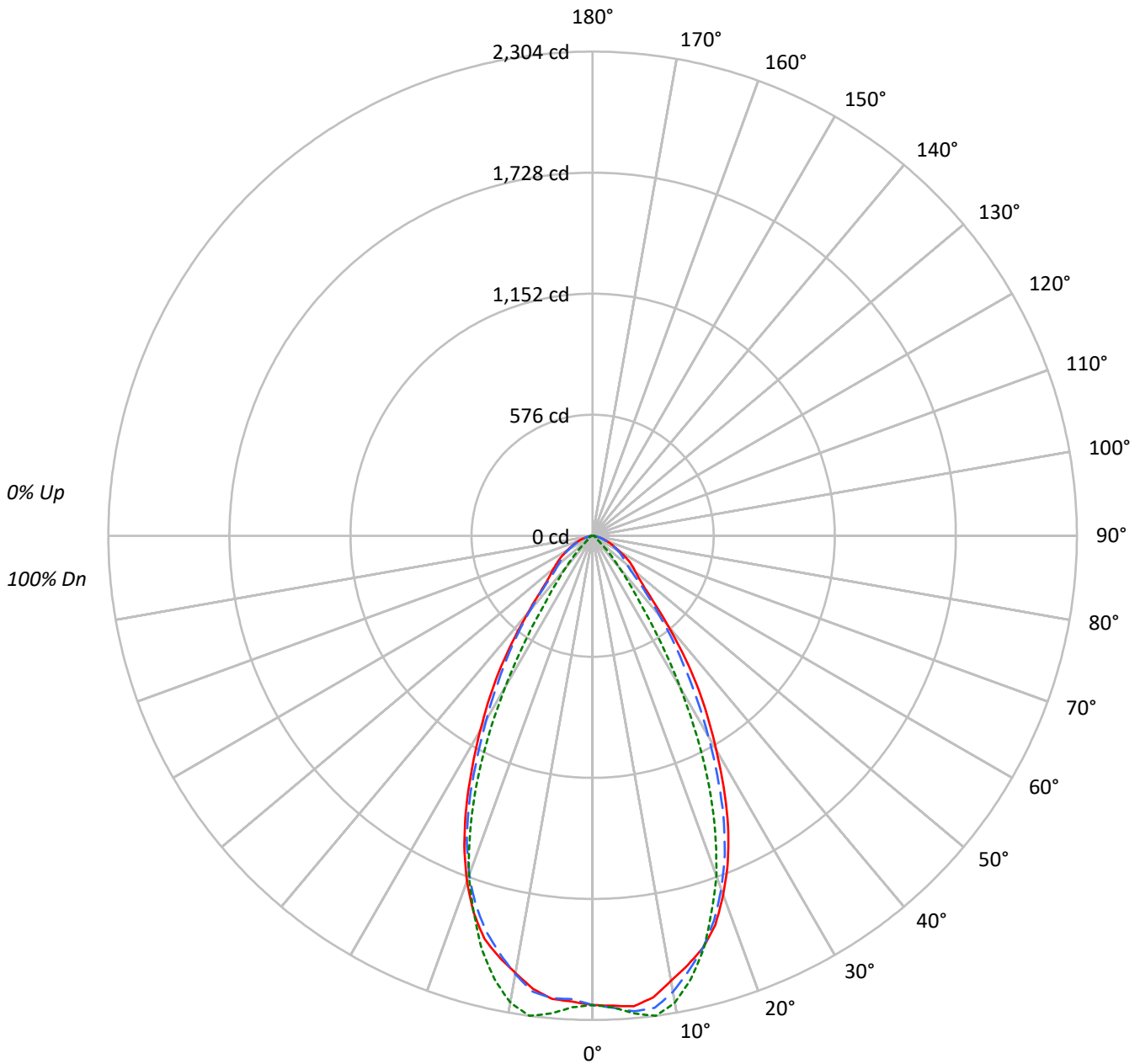
Lumens per Lamp: N/A
Luminaire Lumens: 2273.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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: P799525

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | | | | | | | | | | | | | | | | | |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | | |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 78 | 76 | | | | | | | | | | | | | | | | | | | |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 78 | 74 | 82 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 70 | | | | | | | | | | | | | | | | | | | |
| 5 | 89 | 79 | 73 | 68 | 87 | 78 | 72 | 68 | 76 | 71 | 67 | 75 | 70 | 66 | 73 | 69 | 66 | 64 | | | | | | | | | | | | | | | | | | | |
| 6 | 84 | 74 | 67 | 62 | 82 | 73 | 67 | 62 | 71 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 7 | 79 | 69 | 62 | 58 | 78 | 68 | 62 | 58 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 55 | | | | | | | | | | | | | | | | | | | |
| 8 | 75 | 65 | 58 | 54 | 74 | 64 | 58 | 54 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 51 | | | | | | | | | | | | | | | | | | | |
| 9 | 71 | 61 | 55 | 50 | 70 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 50 | 58 | 53 | 50 | 48 | | | | | | | | | | | | | | | | | | | |
| 10 | 68 | 57 | 51 | 47 | 67 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 55 | 50 | 47 | 45 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 122397 | 122397 | 122397 |
| 5° | 123673 | 125550 | 121736 |
| 10° | 119670 | 125549 | 117583 |
| 15° | 115177 | 115631 | 112731 |
| 20° | 106001 | 100435 | 102028 |
| 25° | 92255 | 79202 | 85934 |
| 30° | 74404 | 52622 | 67504 |
| 35° | 57688 | 27131 | 50694 |
| 40° | 39581 | 14062 | 34135 |
| 45° | 27119 | 7047 | 23948 |
| 50° | 22566 | 3002 | 20537 |
| 55° | 20300 | 2609 | 18341 |
| 60° | 16062 | 2489 | 15317 |
| 65° | 13257 | 2205 | 13114 |
| 70° | 10739 | 2004 | 10739 |
| 75° | 7943 | 2160 | 8409 |
| 80° | 4672 | 1799 | 5020 |
| 85° | 3585 | 2139 | 3585 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 212.5 | 9.4 |
| 10°-20° | 557.8 | 24.5 |
| 20°-30° | 636.7 | 28.0 |
| 30°-40° | 422.3 | 18.6 |
| 40°-50° | 203.7 | 9.0 |
| 50°-60° | 125.3 | 5.5 |
| 60°-70° | 75.8 | 3.3 |
| 70°-80° | 31.9 | 1.4 |
| 80°-90° | 7.0 | 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° | 1407.1 | 61.9 |
| 0°-40° | 1829.3 | 80.5 |
| 0°-60° | 2158.3 | 95.0 |
| 0°-90° | 2273.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2273.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2233 | 2233 | 2233 | 2233 | 2233 | |
| 5° | 2247 | 2271 | 2282 | 2209 | 2212 | 211 |
| 15° | 2029 | 2029 | 2037 | 1951 | 1986 | 566 |
| 25° | 1525 | 1474 | 1309 | 1386 | 1421 | 692 |
| 35° | 862 | 760 | 405 | 709 | 758 | 533 |
| 45° | 350 | 307 | 91 | 286 | 309 | 285 |
| 55° | 212 | 173 | 27 | 173 | 192 | 187 |
| 65° | 102 | 98 | 17 | 92 | 101 | 103 |
| 75° | 38 | 38 | 10 | 35 | 40 | 40 |
| 85° | 6 | 8 | 3 | 6 | 6 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799525

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2232.7 | 2232.7 | 2232.7 | 2232.7 | 2232.7 | 2232.7 | 2232.7 | 2232.7 | 2232.7 |
| 2.5° | 2238.4 | 2241.8 | 2248.6 | 2249.7 | 2246.3 | 2224.7 | 2206.6 | 2213.4 | 2219.1 |
| 5° | 2247.4 | 2254.3 | 2271.3 | 2287.2 | 2281.5 | 2245.2 | 2208.8 | 2207.7 | 2212.2 |
| 7.5° | 2214.5 | 2230.4 | 2265.6 | 2305.4 | 2304.2 | 2241.8 | 2188.4 | 2174.8 | 2174.8 |
| 10° | 2149.8 | 2164.5 | 2203.2 | 2256.5 | 2255.4 | 2177.0 | 2118.0 | 2111.2 | 2112.3 |
| 12.5° | 2091.9 | 2098.7 | 2118.0 | 2160.0 | 2160.0 | 2082.8 | 2037.4 | 2044.2 | 2053.3 |
| 15° | 2029.4 | 2033.9 | 2029.4 | 2043.0 | 2037.4 | 1973.8 | 1951.0 | 1972.6 | 1986.3 |
| 17.5° | 1940.8 | 1943.1 | 1919.2 | 1901.1 | 1879.5 | 1839.8 | 1845.4 | 1877.2 | 1880.6 |
| 20° | 1817.0 | 1831.8 | 1788.6 | 1742.1 | 1721.6 | 1684.2 | 1716.0 | 1751.2 | 1748.9 |
| 22.5° | 1680.8 | 1697.8 | 1642.1 | 1564.9 | 1522.9 | 1508.1 | 1564.9 | 1596.7 | 1595.6 |
| 25° | 1525.2 | 1537.7 | 1474.1 | 1366.2 | 1309.4 | 1307.1 | 1385.5 | 1418.4 | 1420.7 |
| 27.5° | 1350.3 | 1354.8 | 1283.3 | 1142.5 | 1072.1 | 1089.1 | 1187.9 | 1233.3 | 1239.0 |
| 30° | 1175.4 | 1173.1 | 1099.3 | 924.4 | 831.3 | 877.9 | 1010.7 | 1060.7 | 1066.4 |
| 32.5° | 1015.3 | 1008.5 | 924.4 | 715.5 | 604.2 | 673.4 | 848.3 | 900.6 | 909.7 |
| 35° | 862.0 | 850.6 | 759.7 | 529.2 | 405.4 | 508.8 | 708.6 | 754.1 | 757.5 |
| 37.5° | 701.8 | 696.2 | 624.6 | 396.3 | 282.8 | 386.1 | 578.0 | 611.0 | 607.6 |
| 40° | 553.1 | 553.1 | 494.0 | 294.1 | 196.5 | 287.3 | 457.7 | 487.2 | 477.0 |
| 42.5° | 433.8 | 439.5 | 389.5 | 216.9 | 139.7 | 213.5 | 362.3 | 389.5 | 378.2 |
| 45° | 349.8 | 349.8 | 306.6 | 161.3 | 90.9 | 159.0 | 286.2 | 311.2 | 308.9 |
| 47.5° | 296.4 | 291.9 | 248.7 | 118.1 | 50.0 | 119.2 | 240.8 | 271.4 | 270.3 |
| 50° | 264.6 | 257.8 | 213.5 | 93.1 | 35.2 | 98.8 | 211.2 | 239.6 | 240.8 |
| 52.5° | 239.6 | 229.4 | 191.9 | 82.9 | 30.7 | 86.3 | 191.9 | 214.6 | 214.6 |
| 55° | 212.4 | 206.7 | 172.6 | 73.8 | 27.3 | 77.2 | 172.6 | 193.1 | 191.9 |
| 57.5° | 179.4 | 178.3 | 154.4 | 67.0 | 25.0 | 68.1 | 154.4 | 166.9 | 162.4 |
| 60° | 146.5 | 151.0 | 134.0 | 60.2 | 22.7 | 61.3 | 131.7 | 142.0 | 139.7 |
| 62.5° | 122.7 | 128.3 | 117.0 | 53.4 | 19.3 | 54.5 | 111.3 | 121.5 | 119.2 |
| 65° | 102.2 | 106.8 | 97.7 | 45.4 | 17.0 | 45.4 | 92.0 | 101.1 | 101.1 |
| 67.5° | 84.0 | 87.4 | 80.6 | 37.5 | 14.8 | 37.5 | 75.0 | 82.9 | 84.0 |
| 70° | 67.0 | 69.3 | 63.6 | 29.5 | 12.5 | 30.7 | 59.1 | 67.0 | 67.0 |
| 72.5° | 52.2 | 53.4 | 50.0 | 23.8 | 11.4 | 23.8 | 45.4 | 52.2 | 52.2 |
| 75° | 37.5 | 39.7 | 37.5 | 18.2 | 10.2 | 18.2 | 35.2 | 38.6 | 39.7 |
| 77.5° | 21.6 | 27.3 | 27.3 | 14.8 | 7.9 | 13.6 | 25.0 | 26.1 | 26.1 |
| 80° | 14.8 | 17.0 | 19.3 | 10.2 | 5.7 | 10.2 | 15.9 | 17.0 | 15.9 |
| 82.5° | 10.2 | 11.4 | 11.4 | 6.8 | 4.5 | 6.8 | 10.2 | 11.4 | 10.2 |
| 85° | 5.7 | 7.9 | 7.9 | 5.7 | 3.4 | 4.5 | 5.7 | 6.8 | 5.7 |
| 87.5° | 3.4 | 4.5 | 5.7 | 4.5 | 3.4 | 3.4 | 3.4 | 3.4 | 2.3 |
| 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)