

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: P799503

Luminaire Tested: **LD6C25D010 EU6259035 6LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799503
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: LD6C25D010 EU6259035 6LBMDSWH
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

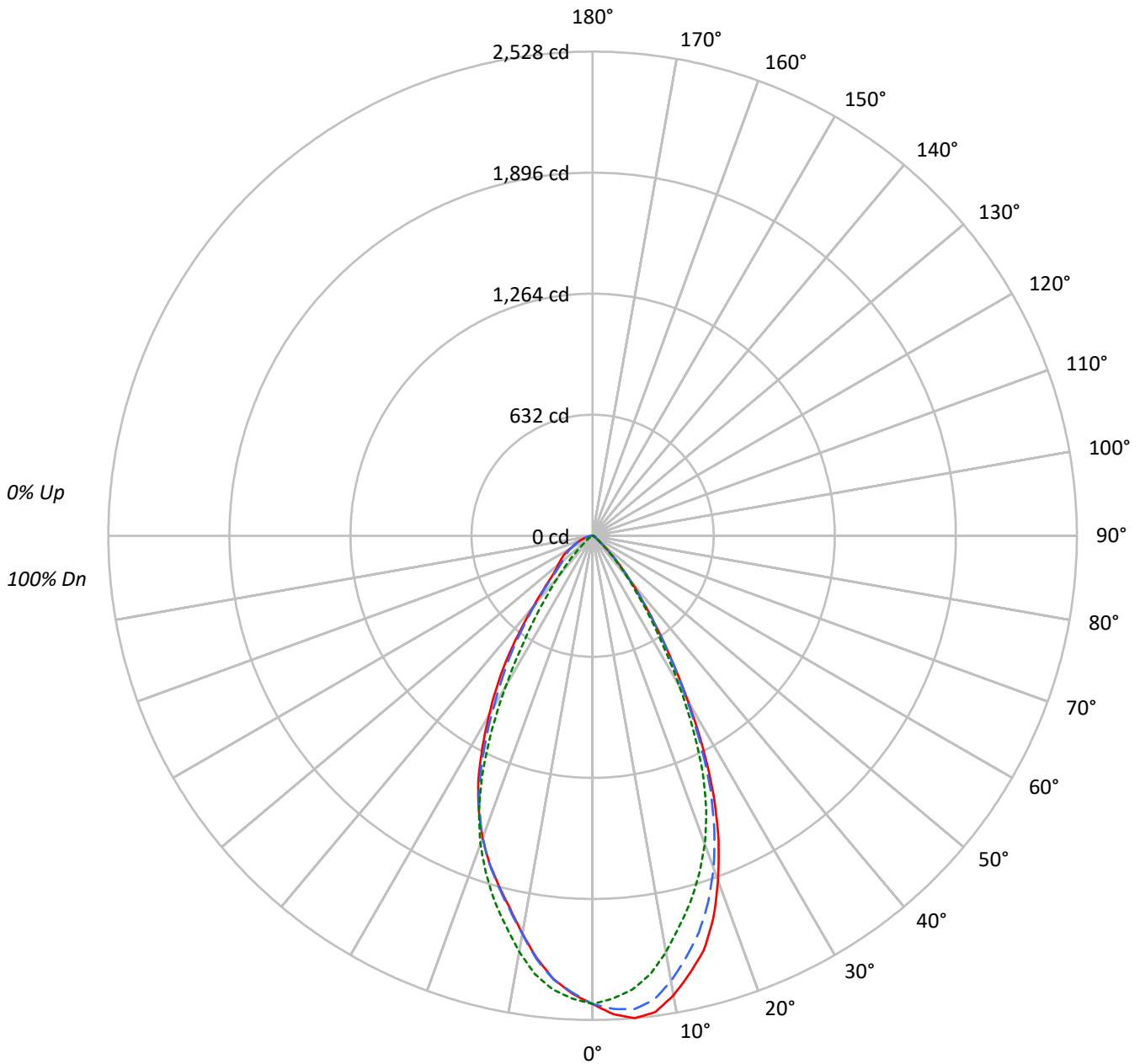
Lumens per Lamp: N/A
Luminaire Lumens: 2105.0 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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: P799503

CATALOG NUMBER: LD6C25D010 EU6259035 6LBMDSWH

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 134030 | 134030 | 134030 |
| 5° | 139131 | 130888 | 127927 |
| 10° | 135569 | 122771 | 117371 |
| 15° | 127146 | 112180 | 107333 |
| 20° | 111619 | 99870 | 97962 |
| 25° | 90277 | 82045 | 85426 |
| 30° | 62763 | 57154 | 68371 |
| 35° | 38682 | 35014 | 51598 |
| 40° | 21891 | 19622 | 34271 |
| 45° | 10629 | 10141 | 23390 |
| 50° | 4051 | 4051 | 19880 |
| 55° | 2217 | 2619 | 18351 |
| 60° | 1623 | 2083 | 15032 |
| 65° | 1362 | 1777 | 12310 |
| 70° | 1186 | 1523 | 10146 |
| 75° | 1123 | 1567 | 8705 |
| 80° | 663 | 1326 | 6314 |
| 85° | 692 | 2642 | 5975 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 223.8 | 10.6 |
| 10°-20° | 562.6 | 26.7 |
| 20°-30° | 633.3 | 30.1 |
| 30°-40° | 392.1 | 18.6 |
| 40°-50° | 156.2 | 7.4 |
| 50°-60° | 71.1 | 3.4 |
| 60°-70° | 40.9 | 1.9 |
| 70°-80° | 19.4 | 0.9 |
| 80°-90° | 5.7 | 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° | 1419.7 | 67.4 |
| 0°-40° | 1811.8 | 86.1 |
| 0°-60° | 2039.1 | 96.9 |
| 0°-90° | 2105.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2105.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2445 | 2445 | 2445 | 2445 | 2445 | |
| 5° | 2528 | 2482 | 2378 | 2327 | 2325 | 238 |
| 15° | 2240 | 2143 | 1977 | 1896 | 1891 | 620 |
| 25° | 1492 | 1452 | 1356 | 1390 | 1412 | 671 |
| 35° | 578 | 575 | 523 | 729 | 771 | 371 |
| 45° | 137 | 137 | 131 | 285 | 302 | 116 |
| 55° | 23 | 22 | 27 | 169 | 192 | 23 |
| 65° | 10 | 10 | 14 | 94 | 95 | 10 |
| 75° | 5 | 5 | 7 | 40 | 41 | 5 |
| 85° | 1 | 1 | 4 | 10 | 10 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799503

CATALOG NUMBER: LD6C25D010 EU6259035 6LBMSDWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2444.9 | 2444.9 | 2444.9 | 2444.9 | 2444.9 | 2444.9 | 2444.9 | 2444.9 | 2444.9 |
| 2.5° | 2500.8 | 2477.6 | 2472.4 | 2452.3 | 2418.6 | 2399.6 | 2388.0 | 2379.5 | 2394.3 |
| 5° | 2528.3 | 2502.9 | 2481.8 | 2440.7 | 2378.5 | 2343.7 | 2326.8 | 2313.1 | 2324.7 |
| 7.5° | 2508.2 | 2472.4 | 2443.9 | 2386.9 | 2307.8 | 2254.0 | 2230.8 | 2215.0 | 2225.5 |
| 10° | 2435.4 | 2392.2 | 2359.5 | 2292.0 | 2205.5 | 2141.2 | 2112.7 | 2097.9 | 2108.5 |
| 12.5° | 2340.5 | 2304.6 | 2255.1 | 2181.2 | 2088.4 | 2020.9 | 1999.8 | 1988.2 | 1992.4 |
| 15° | 2240.3 | 2198.1 | 2143.3 | 2069.4 | 1976.6 | 1909.1 | 1896.5 | 1889.1 | 1891.2 |
| 17.5° | 2094.8 | 2053.6 | 2006.2 | 1934.4 | 1849.0 | 1794.1 | 1794.1 | 1788.9 | 1792.0 |
| 20° | 1913.3 | 1891.2 | 1844.8 | 1784.7 | 1711.9 | 1662.3 | 1678.1 | 1672.8 | 1679.2 |
| 22.5° | 1717.1 | 1700.3 | 1660.2 | 1610.6 | 1549.4 | 1510.4 | 1545.2 | 1544.2 | 1552.6 |
| 25° | 1492.5 | 1479.8 | 1452.4 | 1410.2 | 1356.4 | 1332.2 | 1390.2 | 1390.2 | 1412.3 |
| 27.5° | 1244.6 | 1232.0 | 1213.0 | 1177.1 | 1132.8 | 1125.4 | 1210.9 | 1221.4 | 1245.7 |
| 30° | 991.5 | 983.0 | 972.5 | 939.8 | 902.9 | 916.6 | 1034.7 | 1052.6 | 1080.1 |
| 32.5° | 765.8 | 760.5 | 757.3 | 727.8 | 695.1 | 740.4 | 875.4 | 898.7 | 926.1 |
| 35° | 578.0 | 566.4 | 574.8 | 552.7 | 523.2 | 580.1 | 728.8 | 748.9 | 771.0 |
| 37.5° | 426.1 | 417.7 | 425.1 | 409.2 | 382.9 | 445.1 | 585.4 | 598.0 | 612.8 |
| 40° | 305.9 | 298.5 | 304.8 | 295.3 | 274.2 | 332.2 | 458.8 | 472.5 | 478.9 |
| 42.5° | 217.3 | 204.6 | 211.0 | 203.6 | 193.0 | 250.0 | 360.7 | 373.4 | 375.5 |
| 45° | 137.1 | 132.9 | 137.1 | 132.9 | 130.8 | 185.6 | 284.8 | 296.4 | 301.7 |
| 47.5° | 83.3 | 78.1 | 78.1 | 75.9 | 78.1 | 137.1 | 235.2 | 252.1 | 260.5 |
| 50° | 47.5 | 45.4 | 44.3 | 43.2 | 47.5 | 107.6 | 203.6 | 222.6 | 233.1 |
| 52.5° | 31.6 | 30.6 | 30.6 | 29.5 | 34.8 | 90.7 | 183.5 | 200.4 | 211.0 |
| 55° | 23.2 | 22.1 | 22.1 | 22.1 | 27.4 | 78.1 | 168.8 | 182.5 | 192.0 |
| 57.5° | 17.9 | 17.9 | 17.9 | 16.9 | 23.2 | 66.4 | 150.8 | 158.2 | 165.6 |
| 60° | 14.8 | 13.7 | 13.7 | 13.7 | 19.0 | 57.0 | 129.7 | 132.9 | 137.1 |
| 62.5° | 11.6 | 11.6 | 11.6 | 11.6 | 15.8 | 50.6 | 111.8 | 111.8 | 113.9 |
| 65° | 10.5 | 9.5 | 9.5 | 9.5 | 13.7 | 44.3 | 93.9 | 92.8 | 94.9 |
| 67.5° | 8.4 | 8.4 | 8.4 | 8.4 | 11.6 | 38.0 | 77.0 | 75.9 | 78.1 |
| 70° | 7.4 | 7.4 | 7.4 | 7.4 | 9.5 | 31.6 | 62.2 | 61.2 | 63.3 |
| 72.5° | 6.3 | 6.3 | 6.3 | 6.3 | 8.4 | 26.4 | 49.6 | 49.6 | 50.6 |
| 75° | 5.3 | 5.3 | 5.3 | 5.3 | 7.4 | 20.0 | 40.1 | 40.1 | 41.1 |
| 77.5° | 4.2 | 4.2 | 4.2 | 4.2 | 5.3 | 15.8 | 30.6 | 29.5 | 29.5 |
| 80° | 2.1 | 3.2 | 3.2 | 3.2 | 4.2 | 11.6 | 22.1 | 20.0 | 20.0 |
| 82.5° | 1.1 | 2.1 | 2.1 | 2.1 | 4.2 | 8.4 | 14.8 | 13.7 | 13.7 |
| 85° | 1.1 | 1.1 | 1.1 | 3.2 | 4.2 | 6.3 | 9.5 | 9.5 | 9.5 |
| 87.5° | 0.0 | 1.1 | 2.1 | 4.2 | 5.3 | 5.3 | 6.3 | 5.3 | 5.3 |
| 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)