

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: P799500

Luminaire Tested: **LD6C25D010 EU6259035 6LBMDDWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799500
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 EU6259035 6LBMDDWWH
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

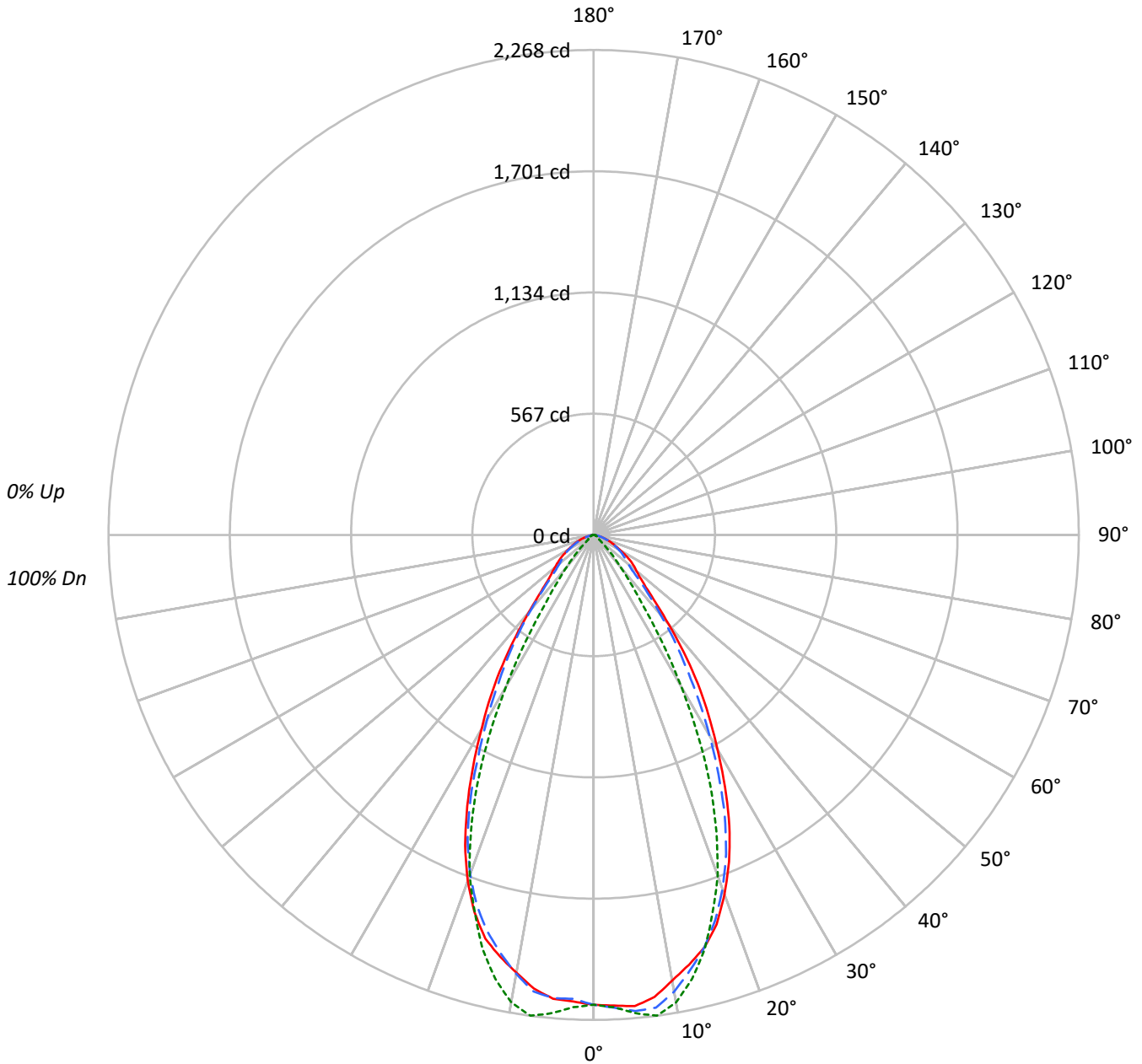
Lumens per Lamp: N/A
Luminaire Lumens: 2237.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P799500

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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 | | | | | | | | |
| 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° | 120456 | 120456 | 120456 |
| 5° | 121720 | 123563 | 119810 |
| 10° | 117772 | 123562 | 115724 |
| 15° | 113355 | 113797 | 110943 |
| 20° | 104327 | 98849 | 100412 |
| 25° | 90792 | 77950 | 84573 |
| 30° | 73226 | 51786 | 66434 |
| 35° | 56771 | 26702 | 49891 |
| 40° | 38952 | 13840 | 33592 |
| 45° | 26685 | 6931 | 23568 |
| 50° | 22208 | 2951 | 20204 |
| 55° | 19975 | 2561 | 18054 |
| 60° | 15810 | 2456 | 15076 |
| 65° | 13049 | 2179 | 12907 |
| 70° | 10563 | 1971 | 10563 |
| 75° | 7816 | 2139 | 8282 |
| 80° | 4578 | 1768 | 4925 |
| 85° | 3522 | 2139 | 3522 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 209.2 | 9.4 |
| 10°-20° | 549.0 | 24.5 |
| 20°-30° | 626.6 | 28.0 |
| 30°-40° | 415.6 | 18.6 |
| 40°-50° | 200.4 | 9.0 |
| 50°-60° | 123.3 | 5.5 |
| 60°-70° | 74.6 | 3.3 |
| 70°-80° | 31.4 | 1.4 |
| 80°-90° | 6.9 | 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° | 1384.8 | 61.9 |
| 0°-40° | 1800.3 | 80.5 |
| 0°-60° | 2124.1 | 95.0 |
| 0°-90° | 2237.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2237.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2197 | 2197 | 2197 | 2197 | 2197 | |
| 5° | 2212 | 2235 | 2245 | 2174 | 2177 | 208 |
| 15° | 1997 | 1997 | 2005 | 1920 | 1955 | 557 |
| 25° | 1501 | 1451 | 1289 | 1364 | 1398 | 681 |
| 35° | 848 | 748 | 399 | 697 | 746 | 525 |
| 45° | 344 | 302 | 89 | 282 | 304 | 281 |
| 55° | 209 | 170 | 27 | 170 | 189 | 184 |
| 65° | 101 | 96 | 17 | 90 | 100 | 101 |
| 75° | 37 | 37 | 10 | 35 | 39 | 39 |
| 85° | 6 | 8 | 3 | 6 | 6 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799500

CATALOG NUMBER: LD6C25D010 EU6259035 6LBMDDWWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2197.3 | 2197.3 | 2197.3 | 2197.3 | 2197.3 | 2197.3 | 2197.3 | 2197.3 | 2197.3 |
| 2.5° | 2202.9 | 2206.3 | 2213.0 | 2214.1 | 2210.7 | 2189.5 | 2171.6 | 2178.3 | 2183.9 |
| 5° | 2211.9 | 2218.6 | 2235.3 | 2251.0 | 2245.4 | 2209.6 | 2173.9 | 2172.7 | 2177.2 |
| 7.5° | 2179.4 | 2195.1 | 2229.7 | 2268.9 | 2267.7 | 2206.3 | 2153.7 | 2140.3 | 2140.3 |
| 10° | 2115.7 | 2130.3 | 2168.3 | 2220.8 | 2219.7 | 2142.6 | 2084.4 | 2077.7 | 2078.9 |
| 12.5° | 2058.7 | 2065.4 | 2084.4 | 2125.8 | 2125.8 | 2049.8 | 2005.1 | 2011.8 | 2020.7 |
| 15° | 1997.3 | 2001.7 | 1997.3 | 2010.7 | 2005.1 | 1942.5 | 1920.1 | 1941.4 | 1954.8 |
| 17.5° | 1910.1 | 1912.3 | 1888.8 | 1871.0 | 1849.7 | 1810.6 | 1816.2 | 1847.5 | 1850.8 |
| 20° | 1788.3 | 1802.8 | 1760.3 | 1714.5 | 1694.4 | 1657.5 | 1688.8 | 1723.4 | 1721.2 |
| 22.5° | 1654.1 | 1670.9 | 1616.1 | 1540.1 | 1498.8 | 1484.3 | 1540.1 | 1571.4 | 1570.3 |
| 25° | 1501.0 | 1513.3 | 1450.7 | 1344.5 | 1288.7 | 1286.4 | 1363.5 | 1396.0 | 1398.2 |
| 27.5° | 1328.9 | 1333.4 | 1263.0 | 1124.4 | 1055.1 | 1071.8 | 1169.1 | 1213.8 | 1219.4 |
| 30° | 1156.8 | 1154.5 | 1081.9 | 909.8 | 818.1 | 864.0 | 994.7 | 1043.9 | 1049.5 |
| 32.5° | 999.2 | 992.5 | 909.8 | 704.1 | 594.6 | 662.8 | 834.9 | 886.3 | 895.2 |
| 35° | 848.3 | 837.1 | 747.7 | 520.8 | 399.0 | 500.7 | 697.4 | 742.1 | 745.5 |
| 37.5° | 690.7 | 685.1 | 614.7 | 390.1 | 278.3 | 380.0 | 568.9 | 601.3 | 597.9 |
| 40° | 544.3 | 544.3 | 486.2 | 289.5 | 193.4 | 282.8 | 450.4 | 479.5 | 469.4 |
| 42.5° | 426.9 | 432.5 | 383.4 | 213.5 | 137.5 | 210.1 | 356.5 | 383.4 | 372.2 |
| 45° | 344.2 | 344.2 | 301.8 | 158.7 | 89.4 | 156.5 | 281.7 | 306.2 | 304.0 |
| 47.5° | 291.7 | 287.2 | 244.8 | 116.2 | 49.2 | 117.4 | 236.9 | 267.1 | 266.0 |
| 50° | 260.4 | 253.7 | 210.1 | 91.6 | 34.6 | 97.2 | 207.9 | 235.8 | 236.9 |
| 52.5° | 235.8 | 225.8 | 188.9 | 81.6 | 30.2 | 84.9 | 188.9 | 211.2 | 211.2 |
| 55° | 209.0 | 203.4 | 169.9 | 72.6 | 26.8 | 76.0 | 169.9 | 190.0 | 188.9 |
| 57.5° | 176.6 | 175.5 | 152.0 | 65.9 | 24.6 | 67.1 | 152.0 | 164.3 | 159.8 |
| 60° | 144.2 | 148.6 | 131.9 | 59.2 | 22.4 | 60.4 | 129.6 | 139.7 | 137.5 |
| 62.5° | 120.7 | 126.3 | 115.1 | 52.5 | 19.0 | 53.6 | 109.5 | 119.6 | 117.4 |
| 65° | 100.6 | 105.1 | 96.1 | 44.7 | 16.8 | 44.7 | 90.5 | 99.5 | 99.5 |
| 67.5° | 82.7 | 86.1 | 79.4 | 36.9 | 14.5 | 36.9 | 73.8 | 81.6 | 82.7 |
| 70° | 65.9 | 68.2 | 62.6 | 29.1 | 12.3 | 30.2 | 58.1 | 65.9 | 65.9 |
| 72.5° | 51.4 | 52.5 | 49.2 | 23.5 | 11.2 | 23.5 | 44.7 | 51.4 | 51.4 |
| 75° | 36.9 | 39.1 | 36.9 | 17.9 | 10.1 | 17.9 | 34.6 | 38.0 | 39.1 |
| 77.5° | 21.2 | 26.8 | 26.8 | 14.5 | 7.8 | 13.4 | 24.6 | 25.7 | 25.7 |
| 80° | 14.5 | 16.8 | 19.0 | 10.1 | 5.6 | 10.1 | 15.6 | 16.8 | 15.6 |
| 82.5° | 10.1 | 11.2 | 11.2 | 6.7 | 4.5 | 6.7 | 10.1 | 11.2 | 10.1 |
| 85° | 5.6 | 7.8 | 7.8 | 5.6 | 3.4 | 4.5 | 5.6 | 6.7 | 5.6 |
| 87.5° | 3.4 | 4.5 | 5.6 | 4.5 | 3.4 | 3.4 | 3.4 | 3.4 | 2.2 |
| 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)