

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: P799653

Luminaire Tested: **LD6C40D010 EU6409027 6LBMDDWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799653
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: LD6C40D010 EU6409027 6LBMDDWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

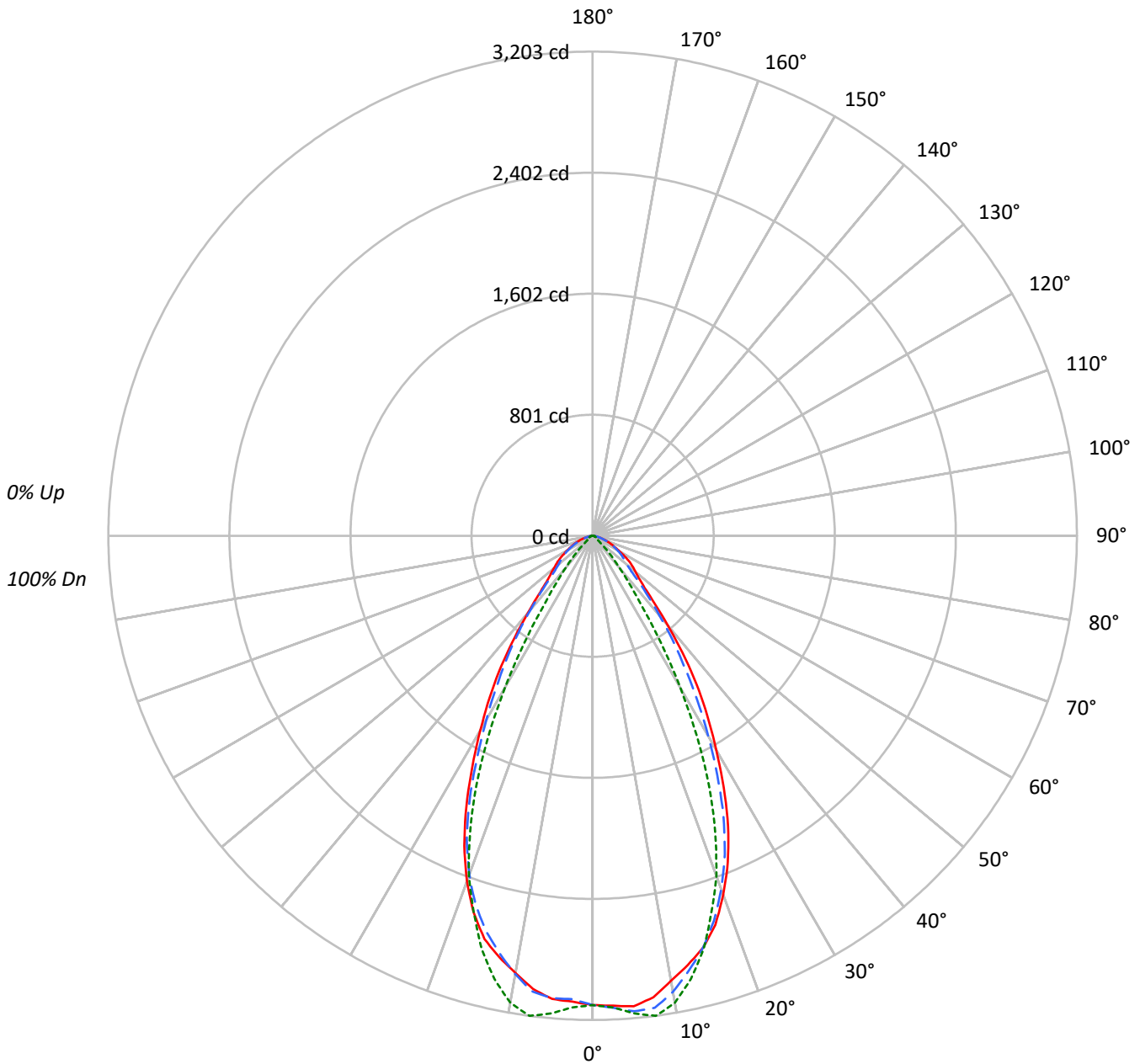
Lumens per Lamp: N/A
Luminaire Lumens: 3160.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

TEST NUMBER: P799653

CATALOG NUMBER: LD6C40D010 EU6409027 6LBMDDWH

Luminous Intensity Polar Plot





TEST NUMBER: P799653

CATALOG NUMBER: LD6C40D010 EU6409027 6LBMDDWH

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° | 170162 | 170162 | 170162 |
| 5° | 171940 | 174543 | 169243 |
| 10° | 166369 | 174540 | 163468 |
| 15° | 160120 | 160750 | 156721 |
| 20° | 147369 | 139633 | 141844 |
| 25° | 128257 | 110111 | 119469 |
| 30° | 103440 | 73157 | 93844 |
| 35° | 80194 | 37718 | 70477 |
| 40° | 55025 | 19544 | 47453 |
| 45° | 37702 | 9792 | 33290 |
| 50° | 31376 | 4170 | 28545 |
| 55° | 28214 | 3622 | 25500 |
| 60° | 22334 | 3465 | 21292 |
| 65° | 18433 | 3074 | 18225 |
| 70° | 14938 | 2789 | 14938 |
| 75° | 11035 | 3008 | 11713 |
| 80° | 6472 | 2494 | 6977 |
| 85° | 4969 | 2956 | 4969 |



TEST NUMBER: P799653

CATALOG NUMBER: LD6C40D010 EU6409027 6LBMDDWH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 295.5 | 9.4 |
| 10°-20° | 775.5 | 24.5 |
| 20°-30° | 885.2 | 28.0 |
| 30°-40° | 587.0 | 18.6 |
| 40°-50° | 283.1 | 9.0 |
| 50°-60° | 174.2 | 5.5 |
| 60°-70° | 105.4 | 3.3 |
| 70°-80° | 44.3 | 1.4 |
| 80°-90° | 9.8 | 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° | 1956.1 | 61.9 |
| 0°-40° | 2543.2 | 80.5 |
| 0°-60° | 3000.5 | 95.0 |
| 0°-90° | 3160.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3160.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3104 | 3104 | 3104 | 3104 | 3104 | |
| 5° | 3124 | 3158 | 3172 | 3071 | 3076 | 294 |
| 15° | 2821 | 2821 | 2832 | 2712 | 2761 | 786 |
| 25° | 2120 | 2049 | 1820 | 1926 | 1975 | 961 |
| 35° | 1198 | 1056 | 564 | 985 | 1053 | 741 |
| 45° | 486 | 426 | 126 | 398 | 429 | 397 |
| 55° | 295 | 240 | 38 | 240 | 267 | 260 |
| 65° | 142 | 136 | 24 | 128 | 140 | 143 |
| 75° | 52 | 52 | 14 | 49 | 55 | 56 |
| 85° | 8 | 11 | 5 | 8 | 8 | 10 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799653

CATALOG NUMBER: LD6C40D010 EU6409027 6LBMDDWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3104.0 | 3104.0 | 3104.0 | 3104.0 | 3104.0 | 3104.0 | 3104.0 | 3104.0 | 3104.0 |
| 2.5° | 3111.8 | 3116.6 | 3126.1 | 3127.6 | 3122.9 | 3092.9 | 3067.6 | 3077.1 | 3085.0 |
| 5° | 3124.5 | 3134.0 | 3157.6 | 3179.7 | 3171.8 | 3121.3 | 3070.8 | 3069.2 | 3075.5 |
| 7.5° | 3078.7 | 3100.8 | 3149.7 | 3205.0 | 3203.4 | 3116.6 | 3042.4 | 3023.4 | 3023.4 |
| 10° | 2988.7 | 3009.2 | 3062.9 | 3137.1 | 3135.5 | 3026.6 | 2944.5 | 2935.0 | 2936.6 |
| 12.5° | 2908.2 | 2917.7 | 2944.5 | 3002.9 | 3002.9 | 2895.6 | 2832.4 | 2841.9 | 2854.5 |
| 15° | 2821.3 | 2827.7 | 2821.3 | 2840.3 | 2832.4 | 2744.0 | 2712.4 | 2742.4 | 2761.4 |
| 17.5° | 2698.2 | 2701.4 | 2668.2 | 2642.9 | 2612.9 | 2557.7 | 2565.6 | 2609.8 | 2614.5 |
| 20° | 2526.1 | 2546.6 | 2486.6 | 2421.9 | 2393.5 | 2341.4 | 2385.6 | 2434.5 | 2431.4 |
| 22.5° | 2336.6 | 2360.3 | 2283.0 | 2175.6 | 2117.2 | 2096.7 | 2175.6 | 2219.8 | 2218.2 |
| 25° | 2120.4 | 2137.7 | 2049.3 | 1899.3 | 1820.4 | 1817.2 | 1926.2 | 1971.9 | 1975.1 |
| 27.5° | 1877.2 | 1883.5 | 1784.1 | 1588.3 | 1490.4 | 1514.1 | 1651.4 | 1714.6 | 1722.5 |
| 30° | 1634.1 | 1630.9 | 1528.3 | 1285.2 | 1155.7 | 1220.4 | 1405.1 | 1474.6 | 1482.5 |
| 32.5° | 1411.5 | 1402.0 | 1285.2 | 994.7 | 839.9 | 936.2 | 1179.4 | 1252.0 | 1264.6 |
| 35° | 1198.3 | 1182.5 | 1056.2 | 735.7 | 563.6 | 707.3 | 985.2 | 1048.3 | 1053.1 |
| 37.5° | 975.7 | 967.8 | 868.3 | 551.0 | 393.1 | 536.8 | 803.6 | 849.4 | 844.7 |
| 40° | 768.9 | 768.9 | 686.8 | 408.9 | 273.1 | 399.4 | 636.3 | 677.3 | 663.1 |
| 42.5° | 603.1 | 611.0 | 541.5 | 301.6 | 194.2 | 296.8 | 503.6 | 541.5 | 525.7 |
| 45° | 486.3 | 486.3 | 426.3 | 224.2 | 126.3 | 221.0 | 397.9 | 432.6 | 429.4 |
| 47.5° | 412.1 | 405.8 | 345.8 | 164.2 | 69.5 | 165.8 | 334.7 | 377.3 | 375.8 |
| 50° | 367.9 | 358.4 | 296.8 | 129.5 | 48.9 | 137.4 | 293.7 | 333.1 | 334.7 |
| 52.5° | 333.1 | 318.9 | 266.8 | 115.3 | 42.6 | 120.0 | 266.8 | 298.4 | 298.4 |
| 55° | 295.2 | 287.3 | 240.0 | 102.6 | 37.9 | 107.4 | 240.0 | 268.4 | 266.8 |
| 57.5° | 249.5 | 247.9 | 214.7 | 93.2 | 34.7 | 94.7 | 214.7 | 232.1 | 225.8 |
| 60° | 203.7 | 210.0 | 186.3 | 83.7 | 31.6 | 85.3 | 183.1 | 197.4 | 194.2 |
| 62.5° | 170.5 | 178.4 | 162.6 | 74.2 | 26.8 | 75.8 | 154.7 | 168.9 | 165.8 |
| 65° | 142.1 | 148.4 | 135.8 | 63.2 | 23.7 | 63.2 | 127.9 | 140.5 | 140.5 |
| 67.5° | 116.8 | 121.6 | 112.1 | 52.1 | 20.5 | 52.1 | 104.2 | 115.3 | 116.8 |
| 70° | 93.2 | 96.3 | 88.4 | 41.0 | 17.4 | 42.6 | 82.1 | 93.2 | 93.2 |
| 72.5° | 72.6 | 74.2 | 69.5 | 33.2 | 15.8 | 33.2 | 63.2 | 72.6 | 72.6 |
| 75° | 52.1 | 55.3 | 52.1 | 25.3 | 14.2 | 25.3 | 48.9 | 53.7 | 55.3 |
| 77.5° | 30.0 | 37.9 | 37.9 | 20.5 | 11.1 | 18.9 | 34.7 | 36.3 | 36.3 |
| 80° | 20.5 | 23.7 | 26.8 | 14.2 | 7.9 | 14.2 | 22.1 | 23.7 | 22.1 |
| 82.5° | 14.2 | 15.8 | 15.8 | 9.5 | 6.3 | 9.5 | 14.2 | 15.8 | 14.2 |
| 85° | 7.9 | 11.1 | 11.1 | 7.9 | 4.7 | 6.3 | 7.9 | 9.5 | 7.9 |
| 87.5° | 4.7 | 6.3 | 7.9 | 6.3 | 4.7 | 4.7 | 4.7 | 4.7 | 3.2 |
| 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)