

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: P799799

Luminaire Tested: **LD6C50D010 EU6509035 6LBMDDWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799799
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: LD6C50D010 EU6509035 6LBMDDWMW
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDDW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

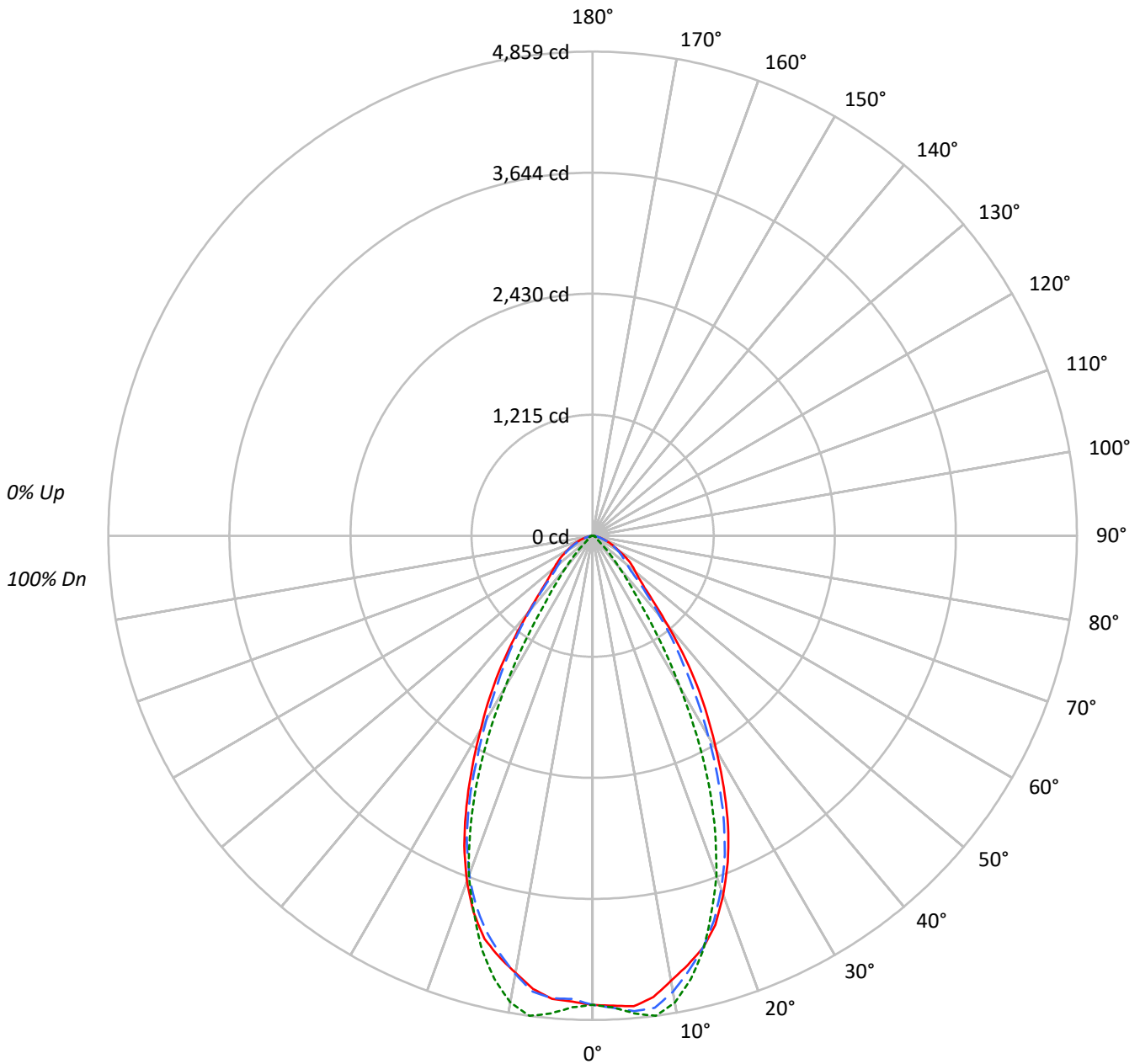
Lumens per Lamp: N/A
Luminaire Lumens: 4793.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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 | | | |
| 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° | 258093 | 258093 | 258093 |
| 5° | 260791 | 264747 | 256707 |
| 10° | 252344 | 264741 | 247947 |
| 15° | 242867 | 243821 | 237703 |
| 20° | 223524 | 211792 | 215140 |
| 25° | 194533 | 167012 | 181208 |
| 30° | 156891 | 110960 | 142338 |
| 35° | 121639 | 57213 | 106896 |
| 40° | 83456 | 29648 | 71978 |
| 45° | 57184 | 14854 | 50501 |
| 50° | 47589 | 6328 | 43299 |
| 55° | 42799 | 5496 | 38680 |
| 60° | 33868 | 5252 | 32289 |
| 65° | 27954 | 4657 | 27642 |
| 70° | 22648 | 4215 | 22648 |
| 75° | 16733 | 4575 | 17750 |
| 80° | 9818 | 3788 | 10576 |
| 85° | 7548 | 4529 | 7548 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 448.2 | 9.4 |
| 10°-20° | 1176.3 | 24.5 |
| 20°-30° | 1342.6 | 28.0 |
| 30°-40° | 890.4 | 18.6 |
| 40°-50° | 429.4 | 9.0 |
| 50°-60° | 264.2 | 5.5 |
| 60°-70° | 159.8 | 3.3 |
| 70°-80° | 67.3 | 1.4 |
| 80°-90° | 14.9 | 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° | 2967.0 | 61.9 |
| 0°-40° | 3857.4 | 80.5 |
| 0°-60° | 4551.1 | 95.0 |
| 0°-90° | 4793.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4793.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 4708 | 4708 | 4708 | 4708 | 4708 | |
| 5° | 4739 | 4789 | 4811 | 4658 | 4665 | 445 |
| 15° | 4279 | 4279 | 4296 | 4114 | 4188 | 1193 |
| 25° | 3216 | 3108 | 2761 | 2922 | 2996 | 1458 |
| 35° | 1818 | 1602 | 855 | 1494 | 1597 | 1124 |
| 45° | 738 | 647 | 192 | 604 | 651 | 602 |
| 55° | 448 | 364 | 58 | 364 | 405 | 394 |
| 65° | 216 | 206 | 36 | 194 | 213 | 216 |
| 75° | 79 | 79 | 22 | 74 | 84 | 84 |
| 85° | 12 | 17 | 7 | 12 | 12 | 15 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799799

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4708.0 | 4708.0 | 4708.0 | 4708.0 | 4708.0 | 4708.0 | 4708.0 | 4708.0 | 4708.0 |
| 2.5° | 4720.0 | 4727.1 | 4741.5 | 4743.9 | 4736.7 | 4691.2 | 4652.9 | 4667.3 | 4679.3 |
| 5° | 4739.1 | 4753.5 | 4789.4 | 4822.9 | 4811.0 | 4734.3 | 4657.7 | 4655.3 | 4664.9 |
| 7.5° | 4669.7 | 4703.2 | 4777.4 | 4861.3 | 4858.9 | 4727.1 | 4614.6 | 4585.9 | 4585.9 |
| 10° | 4533.2 | 4564.3 | 4645.7 | 4758.3 | 4755.9 | 4590.7 | 4466.1 | 4451.8 | 4454.2 |
| 12.5° | 4411.0 | 4425.4 | 4466.1 | 4554.7 | 4554.7 | 4391.9 | 4296.1 | 4310.5 | 4329.6 |
| 15° | 4279.3 | 4288.9 | 4279.3 | 4308.1 | 4296.1 | 4162.0 | 4114.1 | 4159.6 | 4188.3 |
| 17.5° | 4092.6 | 4097.3 | 4047.1 | 4008.7 | 3963.2 | 3879.4 | 3891.4 | 3958.4 | 3965.6 |
| 20° | 3831.5 | 3862.7 | 3771.7 | 3673.5 | 3630.4 | 3551.3 | 3618.4 | 3692.6 | 3687.8 |
| 22.5° | 3544.2 | 3580.1 | 3462.7 | 3299.9 | 3211.3 | 3180.2 | 3299.9 | 3367.0 | 3364.6 |
| 25° | 3216.1 | 3242.4 | 3108.3 | 2880.8 | 2761.1 | 2756.3 | 2921.5 | 2991.0 | 2995.8 |
| 27.5° | 2847.3 | 2856.9 | 2706.0 | 2409.1 | 2260.6 | 2296.5 | 2504.9 | 2600.7 | 2612.6 |
| 30° | 2478.5 | 2473.7 | 2318.1 | 1949.3 | 1752.9 | 1851.1 | 2131.3 | 2236.7 | 2248.6 |
| 32.5° | 2140.9 | 2126.5 | 1949.3 | 1508.7 | 1274.0 | 1420.1 | 1788.8 | 1899.0 | 1918.2 |
| 35° | 1817.6 | 1793.6 | 1602.1 | 1115.9 | 854.9 | 1072.8 | 1494.3 | 1590.1 | 1597.3 |
| 37.5° | 1479.9 | 1468.0 | 1317.1 | 835.8 | 596.3 | 814.2 | 1218.9 | 1288.4 | 1281.2 |
| 40° | 1166.2 | 1166.2 | 1041.7 | 620.2 | 414.3 | 605.9 | 965.1 | 1027.3 | 1005.8 |
| 42.5° | 914.8 | 926.8 | 821.4 | 457.4 | 294.5 | 450.2 | 763.9 | 821.4 | 797.4 |
| 45° | 737.6 | 737.6 | 646.6 | 340.0 | 191.6 | 335.3 | 603.5 | 656.1 | 651.4 |
| 47.5° | 625.0 | 615.4 | 524.4 | 249.0 | 105.4 | 251.4 | 507.7 | 572.3 | 569.9 |
| 50° | 558.0 | 543.6 | 450.2 | 196.4 | 74.2 | 208.3 | 445.4 | 505.3 | 507.7 |
| 52.5° | 505.3 | 483.7 | 404.7 | 174.8 | 64.7 | 182.0 | 404.7 | 452.6 | 452.6 |
| 55° | 447.8 | 435.8 | 364.0 | 155.7 | 57.5 | 162.8 | 364.0 | 407.1 | 404.7 |
| 57.5° | 378.4 | 376.0 | 325.7 | 141.3 | 52.7 | 143.7 | 325.7 | 352.0 | 342.4 |
| 60° | 308.9 | 318.5 | 282.6 | 126.9 | 47.9 | 129.3 | 277.8 | 299.3 | 294.5 |
| 62.5° | 258.6 | 270.6 | 246.7 | 112.6 | 40.7 | 114.9 | 234.7 | 256.2 | 251.4 |
| 65° | 215.5 | 225.1 | 205.9 | 95.8 | 35.9 | 95.8 | 194.0 | 213.1 | 213.1 |
| 67.5° | 177.2 | 184.4 | 170.0 | 79.0 | 31.1 | 79.0 | 158.1 | 174.8 | 177.2 |
| 70° | 141.3 | 146.1 | 134.1 | 62.3 | 26.3 | 64.7 | 124.5 | 141.3 | 141.3 |
| 72.5° | 110.2 | 112.6 | 105.4 | 50.3 | 23.9 | 50.3 | 95.8 | 110.2 | 110.2 |
| 75° | 79.0 | 83.8 | 79.0 | 38.3 | 21.6 | 38.3 | 74.2 | 81.4 | 83.8 |
| 77.5° | 45.5 | 57.5 | 57.5 | 31.1 | 16.8 | 28.7 | 52.7 | 55.1 | 55.1 |
| 80° | 31.1 | 35.9 | 40.7 | 21.6 | 12.0 | 21.6 | 33.5 | 35.9 | 33.5 |
| 82.5° | 21.6 | 23.9 | 23.9 | 14.4 | 9.6 | 14.4 | 21.6 | 23.9 | 21.6 |
| 85° | 12.0 | 16.8 | 16.8 | 12.0 | 7.2 | 9.6 | 12.0 | 14.4 | 12.0 |
| 87.5° | 7.2 | 9.6 | 12.0 | 9.6 | 7.2 | 7.2 | 7.2 | 7.2 | 4.8 |
| 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)