

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: P799609

Luminaire Tested: **LD6C35D010 EU6359030 6LBMDDWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799609
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: LD6C35D010 EU6359030 6LBMDDWWMH
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

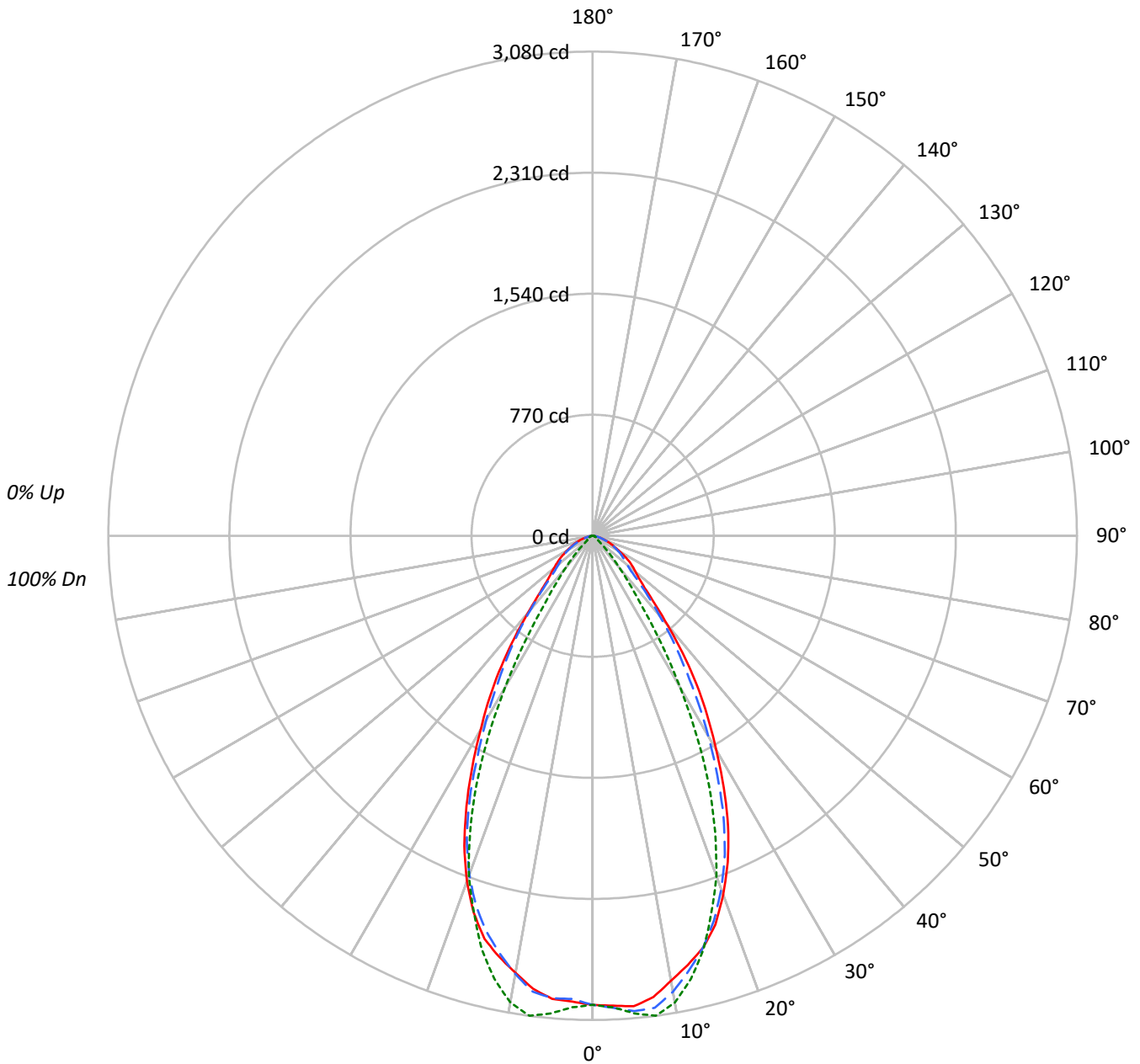
Lumens per Lamp: N/A
Luminaire Lumens: 3038.0 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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° | 163589 | 163589 | 163589 |
| 5° | 165303 | 167807 | 162711 |
| 10° | 159945 | 167805 | 157156 |
| 15° | 153940 | 154541 | 150665 |
| 20° | 141681 | 134243 | 136366 |
| 25° | 123303 | 105859 | 114853 |
| 30° | 99446 | 70334 | 90223 |
| 35° | 77102 | 36266 | 67753 |
| 40° | 52899 | 18792 | 45621 |
| 45° | 36244 | 9412 | 32011 |
| 50° | 30165 | 4017 | 27445 |
| 55° | 27124 | 3479 | 24515 |
| 60° | 21468 | 3333 | 20470 |
| 65° | 17719 | 2958 | 17525 |
| 70° | 14361 | 2677 | 14361 |
| 75° | 10612 | 2902 | 11247 |
| 80° | 6219 | 2399 | 6724 |
| 85° | 4780 | 2893 | 4780 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 284.1 | 9.4 |
| 10°-20° | 745.6 | 24.5 |
| 20°-30° | 851.0 | 28.0 |
| 30°-40° | 564.4 | 18.6 |
| 40°-50° | 272.2 | 9.0 |
| 50°-60° | 167.4 | 5.5 |
| 60°-70° | 101.3 | 3.3 |
| 70°-80° | 42.6 | 1.4 |
| 80°-90° | 9.4 | 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° | 1880.6 | 61.9 |
| 0°-40° | 2445.0 | 80.5 |
| 0°-60° | 2884.7 | 95.0 |
| 0°-90° | 3038.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3038.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2984 | 2984 | 2984 | 2984 | 2984 | |
| 5° | 3004 | 3036 | 3049 | 2952 | 2957 | 282 |
| 15° | 2712 | 2712 | 2723 | 2608 | 2655 | 756 |
| 25° | 2038 | 1970 | 1750 | 1852 | 1899 | 924 |
| 35° | 1152 | 1016 | 542 | 947 | 1012 | 713 |
| 45° | 468 | 410 | 121 | 382 | 413 | 381 |
| 55° | 284 | 231 | 36 | 231 | 256 | 250 |
| 65° | 137 | 130 | 23 | 123 | 135 | 137 |
| 75° | 50 | 50 | 14 | 47 | 53 | 53 |
| 85° | 8 | 11 | 5 | 8 | 8 | 10 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799609

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2984.1 | 2984.1 | 2984.1 | 2984.1 | 2984.1 | 2984.1 | 2984.1 | 2984.1 | 2984.1 |
| 2.5° | 2991.7 | 2996.3 | 3005.4 | 3006.9 | 3002.3 | 2973.5 | 2949.2 | 2958.3 | 2965.9 |
| 5° | 3003.9 | 3013.0 | 3035.7 | 3057.0 | 3049.4 | 3000.8 | 2952.2 | 2950.7 | 2956.8 |
| 7.5° | 2959.8 | 2981.1 | 3028.1 | 3081.3 | 3079.7 | 2996.3 | 2924.9 | 2906.7 | 2906.7 |
| 10° | 2873.3 | 2893.0 | 2944.7 | 3016.0 | 3014.5 | 2909.7 | 2830.8 | 2821.7 | 2823.2 |
| 12.5° | 2795.9 | 2805.0 | 2830.8 | 2887.0 | 2887.0 | 2783.8 | 2723.0 | 2732.2 | 2744.3 |
| 15° | 2712.4 | 2718.5 | 2712.4 | 2730.6 | 2723.0 | 2638.0 | 2607.7 | 2636.5 | 2654.7 |
| 17.5° | 2594.0 | 2597.1 | 2565.2 | 2540.9 | 2512.1 | 2458.9 | 2466.5 | 2509.0 | 2513.6 |
| 20° | 2428.6 | 2448.3 | 2390.6 | 2328.4 | 2301.1 | 2251.0 | 2293.5 | 2340.5 | 2337.5 |
| 22.5° | 2246.4 | 2269.2 | 2194.8 | 2091.6 | 2035.5 | 2015.7 | 2091.6 | 2134.1 | 2132.6 |
| 25° | 2038.5 | 2055.2 | 1970.2 | 1826.0 | 1750.1 | 1747.1 | 1851.8 | 1895.8 | 1898.8 |
| 27.5° | 1804.7 | 1810.8 | 1715.2 | 1527.0 | 1432.9 | 1455.6 | 1587.7 | 1648.4 | 1656.0 |
| 30° | 1571.0 | 1568.0 | 1469.3 | 1235.5 | 1111.1 | 1173.3 | 1350.9 | 1417.7 | 1425.3 |
| 32.5° | 1357.0 | 1347.9 | 1235.5 | 956.3 | 807.5 | 900.1 | 1133.8 | 1203.7 | 1215.8 |
| 35° | 1152.1 | 1136.9 | 1015.5 | 707.3 | 541.9 | 680.0 | 947.1 | 1007.9 | 1012.4 |
| 37.5° | 938.0 | 930.4 | 834.8 | 529.7 | 377.9 | 516.1 | 772.6 | 816.6 | 812.1 |
| 40° | 739.2 | 739.2 | 660.3 | 393.1 | 262.6 | 384.0 | 611.7 | 651.2 | 637.5 |
| 42.5° | 579.8 | 587.4 | 520.6 | 289.9 | 186.7 | 285.4 | 484.2 | 520.6 | 505.4 |
| 45° | 467.5 | 467.5 | 409.8 | 215.5 | 121.4 | 212.5 | 382.5 | 415.9 | 412.9 |
| 47.5° | 396.2 | 390.1 | 332.4 | 157.9 | 66.8 | 159.4 | 321.8 | 362.8 | 361.3 |
| 50° | 353.7 | 344.6 | 285.4 | 124.5 | 47.1 | 132.1 | 282.3 | 320.3 | 321.8 |
| 52.5° | 320.3 | 306.6 | 256.5 | 110.8 | 41.0 | 115.4 | 256.5 | 286.9 | 286.9 |
| 55° | 283.8 | 276.3 | 230.7 | 98.7 | 36.4 | 103.2 | 230.7 | 258.0 | 256.5 |
| 57.5° | 239.8 | 238.3 | 206.4 | 89.6 | 33.4 | 91.1 | 206.4 | 223.1 | 217.1 |
| 60° | 195.8 | 201.9 | 179.1 | 80.4 | 30.4 | 82.0 | 176.1 | 189.7 | 186.7 |
| 62.5° | 163.9 | 171.5 | 156.3 | 71.3 | 25.8 | 72.9 | 148.8 | 162.4 | 159.4 |
| 65° | 136.6 | 142.7 | 130.5 | 60.7 | 22.8 | 60.7 | 122.9 | 135.1 | 135.1 |
| 67.5° | 112.3 | 116.9 | 107.8 | 50.1 | 19.7 | 50.1 | 100.2 | 110.8 | 112.3 |
| 70° | 89.6 | 92.6 | 85.0 | 39.5 | 16.7 | 41.0 | 78.9 | 89.6 | 89.6 |
| 72.5° | 69.8 | 71.3 | 66.8 | 31.9 | 15.2 | 31.9 | 60.7 | 69.8 | 69.8 |
| 75° | 50.1 | 53.1 | 50.1 | 24.3 | 13.7 | 24.3 | 47.1 | 51.6 | 53.1 |
| 77.5° | 28.8 | 36.4 | 36.4 | 19.7 | 10.6 | 18.2 | 33.4 | 34.9 | 34.9 |
| 80° | 19.7 | 22.8 | 25.8 | 13.7 | 7.6 | 13.7 | 21.3 | 22.8 | 21.3 |
| 82.5° | 13.7 | 15.2 | 15.2 | 9.1 | 6.1 | 9.1 | 13.7 | 15.2 | 13.7 |
| 85° | 7.6 | 10.6 | 10.6 | 7.6 | 4.6 | 6.1 | 7.6 | 9.1 | 7.6 |
| 87.5° | 4.6 | 6.1 | 7.6 | 6.1 | 4.6 | 4.6 | 4.6 | 4.6 | 3.0 |
| 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)