

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: P799554

Luminaire Tested: **LD6C30D010 EU6309030 6LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799554
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: LD6C30D010 EU6309030 6LBMDSWWH
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

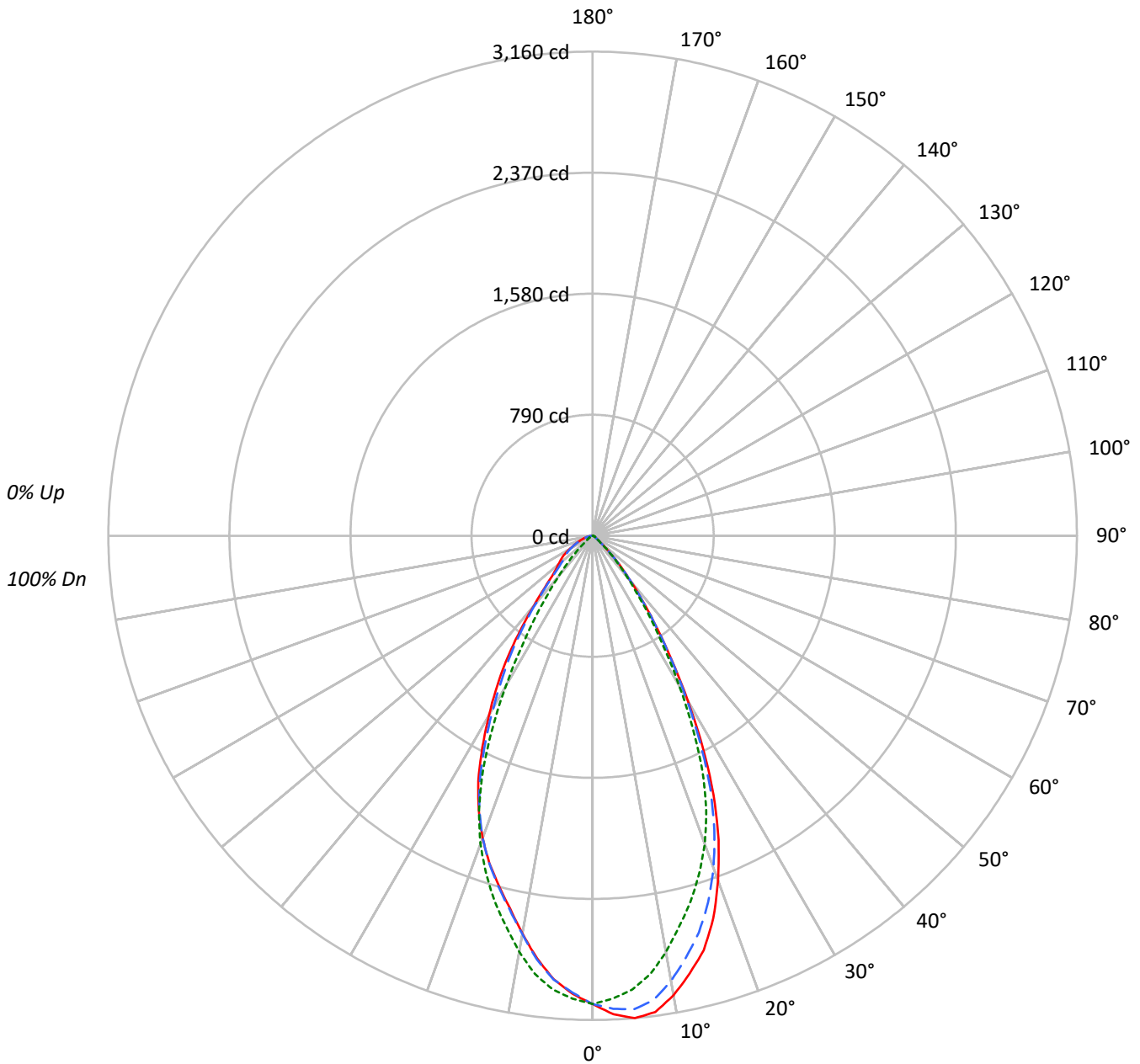
Lumens per Lamp: N/A
Luminaire Lumens: 2631.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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 | | | | 100 | | | | |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 97 | 95 | 94 | 92 | | | | 92 | | | | |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 93 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 | | | | 85 | | | | |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 85 | 83 | 80 | 78 | | | | 78 | | | | |
| 4 | 96 | 88 | 82 | 77 | 94 | 87 | 81 | 77 | 84 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 73 | | | | 73 | | | | |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 67 | | | | 67 | | | | |
| 6 | 86 | 77 | 70 | 66 | 84 | 76 | 70 | 66 | 74 | 69 | 65 | 73 | 68 | 65 | 71 | 67 | 64 | 63 | | | | 63 | | | | |
| 7 | 82 | 72 | 66 | 61 | 80 | 71 | 65 | 61 | 70 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 59 | | | | 59 | | | | |
| 8 | 78 | 68 | 61 | 57 | 76 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 56 | 55 | | | | 55 | | | | |
| 9 | 74 | 64 | 58 | 54 | 73 | 63 | 58 | 54 | 62 | 57 | 53 | 61 | 57 | 53 | 61 | 56 | 53 | 52 | | | | 52 | | | | |
| 10 | 70 | 60 | 54 | 50 | 69 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 50 | 58 | 53 | 50 | 49 | | | | 49 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 167525 | 167525 | 167525 |
| 5° | 173893 | 163592 | 159894 |
| 10° | 169447 | 153449 | 146696 |
| 15° | 158917 | 140211 | 134155 |
| 20° | 139510 | 124821 | 122441 |
| 25° | 112833 | 102550 | 106772 |
| 30° | 78442 | 71435 | 85456 |
| 35° | 48345 | 43761 | 64494 |
| 40° | 27358 | 24532 | 42830 |
| 45° | 13288 | 12676 | 29228 |
| 50° | 5057 | 5057 | 24844 |
| 55° | 2772 | 3278 | 22929 |
| 60° | 2028 | 2598 | 18792 |
| 65° | 1712 | 2218 | 15384 |
| 70° | 1475 | 1907 | 12678 |
| 75° | 1398 | 1949 | 10887 |
| 80° | 821 | 1673 | 7892 |
| 85° | 818 | 3334 | 7485 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 279.8 | 10.6 |
| 10°-20° | 703.1 | 26.7 |
| 20°-30° | 791.5 | 30.1 |
| 30°-40° | 490.1 | 18.6 |
| 40°-50° | 195.2 | 7.4 |
| 50°-60° | 88.9 | 3.4 |
| 60°-70° | 51.1 | 1.9 |
| 70°-80° | 24.3 | 0.9 |
| 80°-90° | 7.1 | 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° | 1774.4 | 67.4 |
| 0°-40° | 2264.5 | 86.1 |
| 0°-60° | 2548.6 | 96.9 |
| 0°-90° | 2631.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2631.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3056 | 3056 | 3056 | 3056 | 3056 | |
| 5° | 3160 | 3102 | 2973 | 2908 | 2906 | 298 |
| 15° | 2800 | 2679 | 2470 | 2370 | 2364 | 775 |
| 25° | 1865 | 1815 | 1695 | 1738 | 1765 | 839 |
| 35° | 722 | 718 | 654 | 911 | 964 | 464 |
| 45° | 171 | 171 | 164 | 356 | 377 | 145 |
| 55° | 29 | 28 | 34 | 211 | 240 | 29 |
| 65° | 13 | 12 | 17 | 117 | 119 | 13 |
| 75° | 7 | 7 | 9 | 50 | 51 | 7 |
| 85° | 1 | 1 | 5 | 12 | 12 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799554

CATALOG NUMBER: LD6C30D010 EU6309030 6LBMSWWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3055.9 | 3055.9 | 3055.9 | 3055.9 | 3055.9 | 3055.9 | 3055.9 | 3055.9 | 3055.9 |
| 2.5° | 3125.7 | 3096.7 | 3090.1 | 3065.1 | 3022.9 | 2999.2 | 2984.7 | 2974.1 | 2992.6 |
| 5° | 3160.0 | 3128.4 | 3102.0 | 3050.6 | 2972.8 | 2929.3 | 2908.2 | 2891.1 | 2905.6 |
| 7.5° | 3135.0 | 3090.1 | 3054.6 | 2983.4 | 2884.5 | 2817.3 | 2788.3 | 2768.5 | 2781.7 |
| 10° | 3044.0 | 2990.0 | 2949.1 | 2864.7 | 2756.6 | 2676.2 | 2640.6 | 2622.1 | 2635.3 |
| 12.5° | 2925.4 | 2880.5 | 2818.6 | 2726.3 | 2610.3 | 2525.9 | 2499.5 | 2485.0 | 2490.3 |
| 15° | 2800.1 | 2747.4 | 2678.8 | 2586.5 | 2470.5 | 2386.2 | 2370.3 | 2361.1 | 2363.8 |
| 17.5° | 2618.2 | 2566.8 | 2507.5 | 2417.8 | 2311.0 | 2242.5 | 2242.5 | 2235.9 | 2239.8 |
| 20° | 2391.4 | 2363.8 | 2305.7 | 2230.6 | 2139.6 | 2077.7 | 2097.5 | 2090.9 | 2098.8 |
| 22.5° | 2146.2 | 2125.1 | 2075.0 | 2013.1 | 1936.6 | 1887.8 | 1931.3 | 1930.0 | 1940.6 |
| 25° | 1865.4 | 1849.6 | 1815.3 | 1762.6 | 1695.4 | 1665.0 | 1737.5 | 1737.5 | 1765.2 |
| 27.5° | 1555.6 | 1539.8 | 1516.1 | 1471.2 | 1415.9 | 1406.7 | 1513.4 | 1526.6 | 1556.9 |
| 30° | 1239.2 | 1228.7 | 1215.5 | 1174.6 | 1128.5 | 1145.6 | 1293.3 | 1315.7 | 1350.0 |
| 32.5° | 957.1 | 950.5 | 946.6 | 909.6 | 868.8 | 925.5 | 1094.2 | 1123.2 | 1157.5 |
| 35° | 722.4 | 707.9 | 718.5 | 690.8 | 653.9 | 725.1 | 911.0 | 936.0 | 963.7 |
| 37.5° | 532.6 | 522.1 | 531.3 | 511.5 | 478.6 | 556.3 | 731.7 | 747.5 | 765.9 |
| 40° | 382.3 | 373.1 | 381.0 | 369.1 | 342.8 | 415.3 | 573.5 | 590.6 | 598.5 |
| 42.5° | 271.6 | 255.8 | 263.7 | 254.4 | 241.3 | 312.4 | 450.9 | 466.7 | 469.3 |
| 45° | 171.4 | 166.1 | 171.4 | 166.1 | 163.5 | 232.0 | 355.9 | 370.4 | 377.0 |
| 47.5° | 104.1 | 97.6 | 97.6 | 94.9 | 97.6 | 171.4 | 294.0 | 315.1 | 325.6 |
| 50° | 59.3 | 56.7 | 55.4 | 54.1 | 59.3 | 134.5 | 254.4 | 278.2 | 291.3 |
| 52.5° | 39.5 | 38.2 | 38.2 | 36.9 | 43.5 | 113.4 | 229.4 | 250.5 | 263.7 |
| 55° | 29.0 | 27.7 | 27.7 | 27.7 | 34.3 | 97.6 | 210.9 | 228.1 | 239.9 |
| 57.5° | 22.4 | 22.4 | 22.4 | 21.1 | 29.0 | 83.1 | 188.5 | 197.7 | 207.0 |
| 60° | 18.5 | 17.1 | 17.1 | 17.1 | 23.7 | 71.2 | 162.2 | 166.1 | 171.4 |
| 62.5° | 14.5 | 14.5 | 14.5 | 14.5 | 19.8 | 63.3 | 139.7 | 139.7 | 142.4 |
| 65° | 13.2 | 11.9 | 11.9 | 11.9 | 17.1 | 55.4 | 117.3 | 116.0 | 118.6 |
| 67.5° | 10.5 | 10.5 | 10.5 | 10.5 | 14.5 | 47.5 | 96.2 | 94.9 | 97.6 |
| 70° | 9.2 | 9.2 | 9.2 | 9.2 | 11.9 | 39.5 | 77.8 | 76.5 | 79.1 |
| 72.5° | 7.9 | 7.9 | 7.9 | 7.9 | 10.5 | 33.0 | 62.0 | 62.0 | 63.3 |
| 75° | 6.6 | 6.6 | 6.6 | 6.6 | 9.2 | 25.0 | 50.1 | 50.1 | 51.4 |
| 77.5° | 5.3 | 5.3 | 5.3 | 5.3 | 6.6 | 19.8 | 38.2 | 36.9 | 36.9 |
| 80° | 2.6 | 4.0 | 4.0 | 4.0 | 5.3 | 14.5 | 27.7 | 25.0 | 25.0 |
| 82.5° | 1.3 | 2.6 | 2.6 | 2.6 | 5.3 | 10.5 | 18.5 | 17.1 | 17.1 |
| 85° | 1.3 | 1.3 | 1.3 | 4.0 | 5.3 | 7.9 | 11.9 | 11.9 | 11.9 |
| 87.5° | 0.0 | 1.3 | 2.6 | 5.3 | 6.6 | 6.6 | 7.9 | 6.6 | 6.6 |
| 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)