

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: P799549

Luminaire Tested: **LD6C30D010 EU6309030 6LBMDDWWMH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799549
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: LD6C30D010 EU6309030 6LBMDDWWMH
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

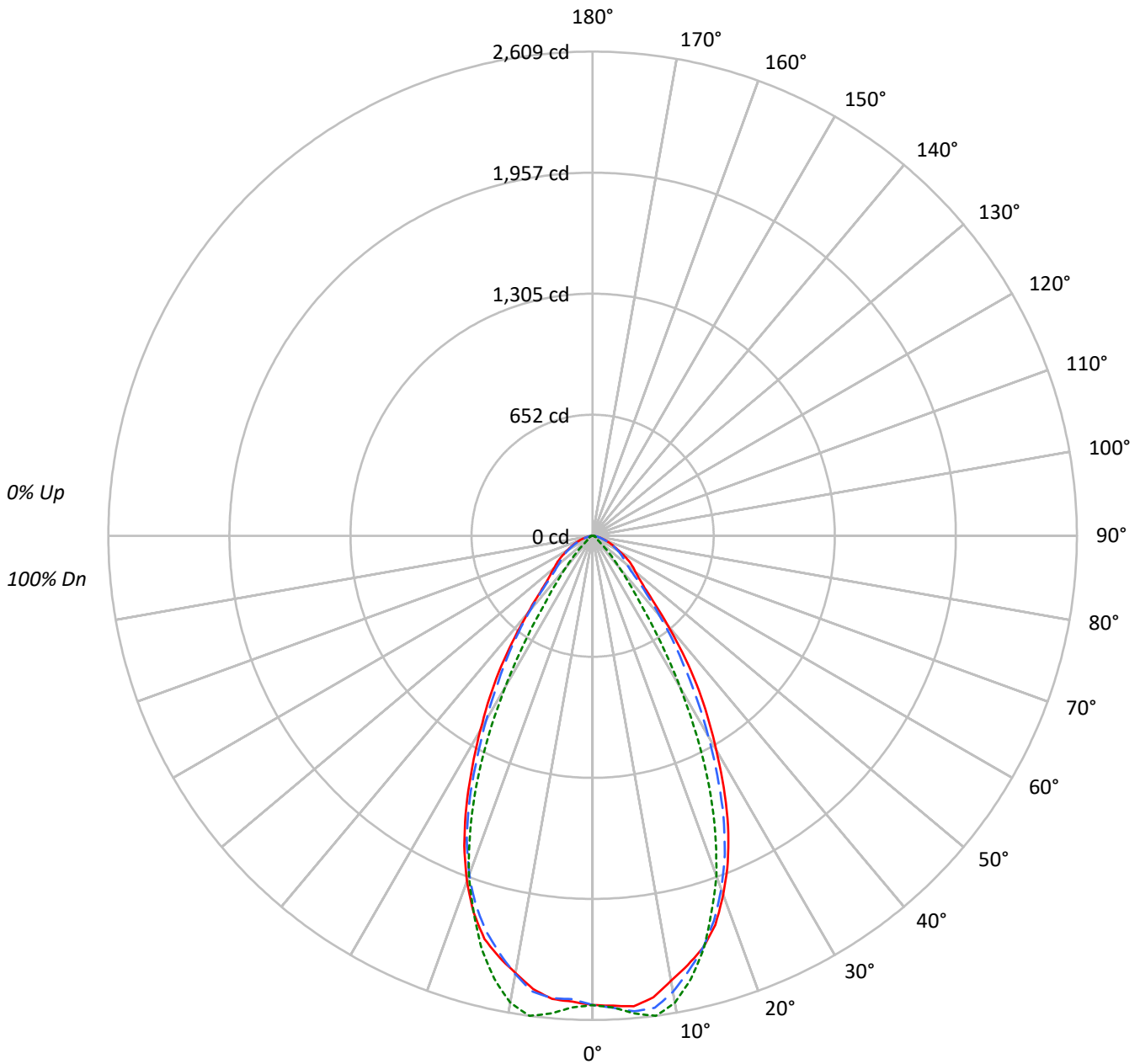
Lumens per Lamp: N/A
Luminaire Lumens: 2574.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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 | | | |
| 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° | 138602 | 138602 | 138602 |
| 5° | 140056 | 142174 | 137860 |
| 10° | 135519 | 142176 | 133153 |
| 15° | 130426 | 130937 | 127657 |
| 20° | 120043 | 113737 | 115539 |
| 25° | 104468 | 89691 | 97312 |
| 30° | 84253 | 59591 | 76442 |
| 35° | 65324 | 30724 | 57407 |
| 40° | 44820 | 15923 | 38651 |
| 45° | 30709 | 7978 | 27119 |
| 50° | 25551 | 3403 | 23249 |
| 55° | 22986 | 2953 | 20769 |
| 60° | 18189 | 2818 | 17345 |
| 65° | 15008 | 2504 | 14852 |
| 70° | 12166 | 2260 | 12166 |
| 75° | 8981 | 2457 | 9531 |
| 80° | 5272 | 2020 | 5683 |
| 85° | 4026 | 2453 | 4026 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 240.7 | 9.4 |
| 10°-20° | 631.7 | 24.5 |
| 20°-30° | 721.0 | 28.0 |
| 30°-40° | 478.2 | 18.6 |
| 40°-50° | 230.6 | 9.0 |
| 50°-60° | 141.9 | 5.5 |
| 60°-70° | 85.8 | 3.3 |
| 70°-80° | 36.1 | 1.4 |
| 80°-90° | 8.0 | 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° | 1593.4 | 61.9 |
| 0°-40° | 2071.6 | 80.5 |
| 0°-60° | 2444.1 | 95.0 |
| 0°-90° | 2574.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2574.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2528 | 2528 | 2528 | 2528 | 2528 | |
| 5° | 2545 | 2572 | 2584 | 2501 | 2505 | 239 |
| 15° | 2298 | 2298 | 2307 | 2209 | 2249 | 640 |
| 25° | 1727 | 1669 | 1483 | 1569 | 1609 | 783 |
| 35° | 976 | 860 | 459 | 802 | 858 | 604 |
| 45° | 396 | 347 | 103 | 324 | 350 | 323 |
| 55° | 240 | 196 | 31 | 196 | 217 | 211 |
| 65° | 116 | 111 | 19 | 104 | 114 | 116 |
| 75° | 42 | 42 | 12 | 40 | 45 | 45 |
| 85° | 6 | 9 | 4 | 6 | 6 | 8 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799549

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2528.3 | 2528.3 | 2528.3 | 2528.3 | 2528.3 | 2528.3 | 2528.3 | 2528.3 | 2528.3 |
| 2.5° | 2534.8 | 2538.6 | 2546.4 | 2547.6 | 2543.8 | 2519.3 | 2498.8 | 2506.5 | 2512.9 |
| 5° | 2545.1 | 2552.8 | 2572.1 | 2590.1 | 2583.6 | 2542.5 | 2501.3 | 2500.1 | 2505.2 |
| 7.5° | 2507.8 | 2525.8 | 2565.6 | 2610.7 | 2609.4 | 2538.6 | 2478.2 | 2462.8 | 2462.8 |
| 10° | 2434.5 | 2451.2 | 2494.9 | 2555.4 | 2554.1 | 2465.3 | 2398.5 | 2390.7 | 2392.0 |
| 12.5° | 2368.9 | 2376.6 | 2398.5 | 2446.0 | 2446.0 | 2358.6 | 2307.1 | 2314.9 | 2325.2 |
| 15° | 2298.1 | 2303.3 | 2298.1 | 2313.6 | 2307.1 | 2235.1 | 2209.4 | 2233.8 | 2249.3 |
| 17.5° | 2197.8 | 2200.4 | 2173.4 | 2152.8 | 2128.4 | 2083.4 | 2089.8 | 2125.8 | 2129.7 |
| 20° | 2057.7 | 2074.4 | 2025.5 | 1972.8 | 1949.6 | 1907.2 | 1943.2 | 1983.1 | 1980.5 |
| 22.5° | 1903.3 | 1922.6 | 1859.6 | 1772.2 | 1724.6 | 1707.9 | 1772.2 | 1808.2 | 1806.9 |
| 25° | 1727.1 | 1741.3 | 1669.3 | 1547.1 | 1482.8 | 1480.2 | 1569.0 | 1606.3 | 1608.8 |
| 27.5° | 1529.1 | 1534.2 | 1453.2 | 1293.8 | 1214.0 | 1233.3 | 1345.2 | 1396.6 | 1403.1 |
| 30° | 1331.0 | 1328.5 | 1244.9 | 1046.8 | 941.4 | 994.1 | 1144.6 | 1201.2 | 1207.6 |
| 32.5° | 1149.7 | 1142.0 | 1046.8 | 810.2 | 684.2 | 762.6 | 960.7 | 1019.8 | 1030.1 |
| 35° | 976.1 | 963.2 | 860.4 | 599.3 | 459.1 | 576.1 | 802.5 | 853.9 | 857.8 |
| 37.5° | 794.8 | 788.3 | 707.3 | 448.8 | 320.2 | 437.3 | 654.6 | 691.9 | 688.0 |
| 40° | 626.3 | 626.3 | 559.4 | 333.1 | 222.5 | 325.4 | 518.3 | 551.7 | 540.1 |
| 42.5° | 491.3 | 497.7 | 441.1 | 245.6 | 158.2 | 241.8 | 410.2 | 441.1 | 428.3 |
| 45° | 396.1 | 396.1 | 347.2 | 182.6 | 102.9 | 180.0 | 324.1 | 352.4 | 349.8 |
| 47.5° | 335.7 | 330.5 | 281.6 | 133.7 | 56.6 | 135.0 | 272.6 | 307.4 | 306.1 |
| 50° | 299.6 | 291.9 | 241.8 | 105.5 | 39.9 | 111.9 | 239.2 | 271.4 | 272.6 |
| 52.5° | 271.4 | 259.8 | 217.3 | 93.9 | 34.7 | 97.7 | 217.3 | 243.1 | 243.1 |
| 55° | 240.5 | 234.1 | 195.5 | 83.6 | 30.9 | 87.5 | 195.5 | 218.6 | 217.3 |
| 57.5° | 203.2 | 201.9 | 174.9 | 75.9 | 28.3 | 77.2 | 174.9 | 189.0 | 183.9 |
| 60° | 165.9 | 171.0 | 151.8 | 68.2 | 25.7 | 69.4 | 149.2 | 160.8 | 158.2 |
| 62.5° | 138.9 | 145.3 | 132.5 | 60.4 | 21.9 | 61.7 | 126.0 | 137.6 | 135.0 |
| 65° | 115.7 | 120.9 | 110.6 | 51.4 | 19.3 | 51.4 | 104.2 | 114.5 | 114.5 |
| 67.5° | 95.2 | 99.0 | 91.3 | 42.4 | 16.7 | 42.4 | 84.9 | 93.9 | 95.2 |
| 70° | 75.9 | 78.4 | 72.0 | 33.4 | 14.1 | 34.7 | 66.9 | 75.9 | 75.9 |
| 72.5° | 59.2 | 60.4 | 56.6 | 27.0 | 12.9 | 27.0 | 51.4 | 59.2 | 59.2 |
| 75° | 42.4 | 45.0 | 42.4 | 20.6 | 11.6 | 20.6 | 39.9 | 43.7 | 45.0 |
| 77.5° | 24.4 | 30.9 | 30.9 | 16.7 | 9.0 | 15.4 | 28.3 | 29.6 | 29.6 |
| 80° | 16.7 | 19.3 | 21.9 | 11.6 | 6.4 | 11.6 | 18.0 | 19.3 | 18.0 |
| 82.5° | 11.6 | 12.9 | 12.9 | 7.7 | 5.1 | 7.7 | 11.6 | 12.9 | 11.6 |
| 85° | 6.4 | 9.0 | 9.0 | 6.4 | 3.9 | 5.1 | 6.4 | 7.7 | 6.4 |
| 87.5° | 3.9 | 5.1 | 6.4 | 5.1 | 3.9 | 3.9 | 3.9 | 3.9 | 2.6 |
| 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)