

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P753771

Luminaire Tested: LD4D80BD010-EU4DR3070959024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR3070959024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5680.9 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
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: 24 FT

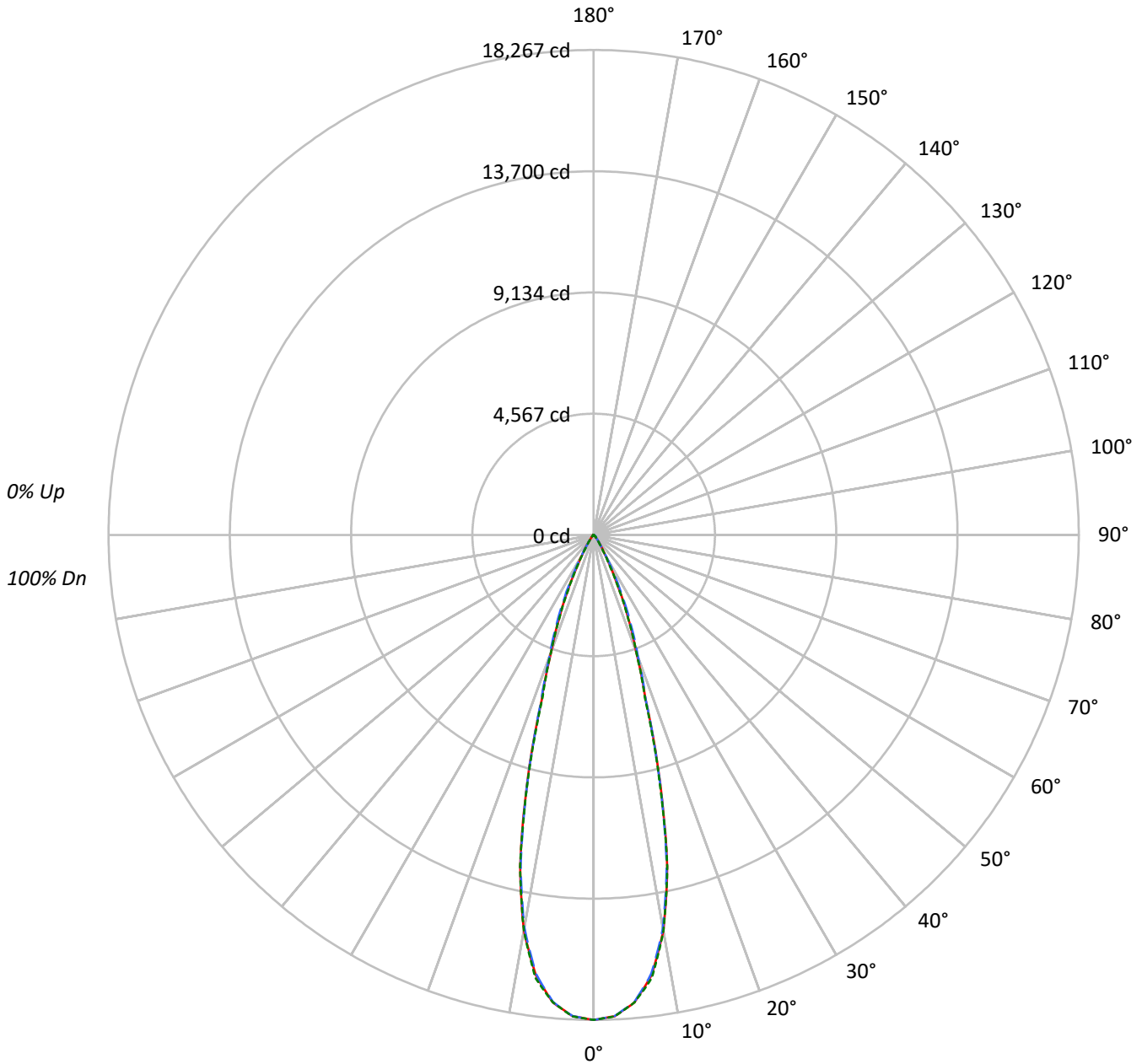


Downlight

TEST NUMBER: P753771

CATALOG NUMBER: LD4D80BD010-EU4DR3070959024-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P753771

CATALOG NUMBER: LD4D80BD010-EU4DR3070959024-4LBDP1MW

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 | 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 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1398203 | 1398203 | 1398203 |
| 5° | 1358065 | 1356482 | 1358134 |
| 10° | 1176286 | 1167993 | 1176014 |
| 15° | 767474 | 763345 | 759510 |
| 20° | 381628 | 395948 | 381115 |
| 25° | 192239 | 216782 | 188295 |
| 30° | 76965 | 83868 | 67057 |
| 35° | 35704 | 34191 | 28659 |
| 40° | 15418 | 17116 | 14518 |
| 45° | 10868 | 13499 | 10966 |
| 50° | 3739 | 9824 | 3953 |
| 55° | 2149 | 4070 | 2269 |
| 60° | 1516 | 1791 | 1516 |
| 65° | 978 | 978 | 978 |
| 70° | 604 | 403 | 604 |
| 75° | 0 | 266 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13499 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1606.3 | 28.3 |
| 10°-20° | 2586.9 | 45.5 |
| 20°-30° | 1117.9 | 19.7 |
| 30°-40° | 254.8 | 4.5 |
| 40°-50° | 87.5 | 1.5 |
| 50°-60° | 21.4 | 0.4 |
| 60°-70° | 5.6 | 0.1 |
| 70°-80° | 0.6 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 5311.1 | 93.5 |
| 0°-40° | 5565.9 | 98.0 |
| 0°-60° | 5674.8 | 99.9 |
| 0°-90° | 5680.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5680.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 18267 | 18267 | 18267 | 18267 | 18267 | |
| 5° | 17675 | 17658 | 17654 | 17691 | 17676 | 1608 |
| 15° | 9685 | 9568 | 9633 | 9602 | 9584 | 2593 |
| 25° | 2276 | 2362 | 2567 | 2302 | 2230 | 1090 |
| 35° | 382 | 390 | 366 | 363 | 307 | 259 |
| 45° | 100 | 125 | 125 | 125 | 101 | 71 |
| 55° | 16 | 17 | 30 | 18 | 17 | 16 |
| 65° | 5 | 5 | 5 | 5 | 5 | 5 |
| 75° | 0 | 0 | 1 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 18266.8 | 18266.8 | 18266.8 | 18266.8 | 18266.8 |
| 2.5° | 18145.7 | 18133.2 | 18140.3 | 18149.3 | 18152.9 |
| 5° | 17674.9 | 17657.8 | 17654.3 | 17691.0 | 17675.8 |
| 7.5° | 16725.1 | 16700.9 | 16664.1 | 16747.6 | 16825.6 |
| 10° | 15134.1 | 15107.2 | 15027.4 | 15066.9 | 15130.6 |
| 12.5° | 12785.3 | 12698.3 | 12696.5 | 12822.1 | 12805.1 |
| 15° | 9685.0 | 9568.4 | 9632.9 | 9601.5 | 9584.5 |
| 17.5° | 6512.8 | 6468.0 | 6554.1 | 6528.1 | 6416.0 |
| 20° | 4685.1 | 4696.7 | 4860.9 | 4778.4 | 4678.8 |
| 22.5° | 3418.7 | 3460.9 | 3655.5 | 3443.0 | 3364.9 |
| 25° | 2276.2 | 2362.3 | 2566.8 | 2302.2 | 2229.5 |
| 27.5° | 1400.0 | 1439.4 | 1646.6 | 1382.0 | 1342.6 |
| 30° | 870.8 | 851.1 | 948.9 | 814.3 | 758.7 |
| 32.5° | 571.3 | 546.2 | 577.6 | 518.4 | 473.5 |
| 35° | 382.1 | 390.1 | 365.9 | 363.2 | 306.7 |
| 37.5° | 238.6 | 274.4 | 242.1 | 258.3 | 197.3 |
| 40° | 154.3 | 199.1 | 171.3 | 189.2 | 145.3 |
| 42.5° | 126.5 | 153.4 | 140.8 | 149.8 | 129.1 |
| 45° | 100.4 | 124.7 | 124.7 | 124.7 | 101.3 |
| 47.5° | 55.6 | 83.4 | 106.7 | 85.2 | 59.2 |
| 50° | 31.4 | 42.2 | 82.5 | 43.9 | 33.2 |
| 52.5° | 21.5 | 24.2 | 56.5 | 25.1 | 22.4 |
| 55° | 16.1 | 17.0 | 30.5 | 17.9 | 17.0 |
| 57.5° | 12.6 | 13.5 | 16.1 | 13.5 | 12.6 |
| 60° | 9.9 | 9.9 | 11.7 | 10.8 | 9.9 |
| 62.5° | 7.2 | 7.2 | 8.1 | 7.2 | 7.2 |
| 65° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 67.5° | 2.7 | 3.6 | 3.6 | 3.6 | 3.6 |
| 70° | 2.7 | 1.8 | 1.8 | 1.8 | 2.7 |
| 72.5° | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 |
| 75° | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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