

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: P746033

Luminaire Tested: LD4D30D010-EU4DR3020359050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746033
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: LD4D30D010-EU4DR3020359050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2257.3 lumens
Efficiency: N/A
Efficacy: 77.8 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): 29
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

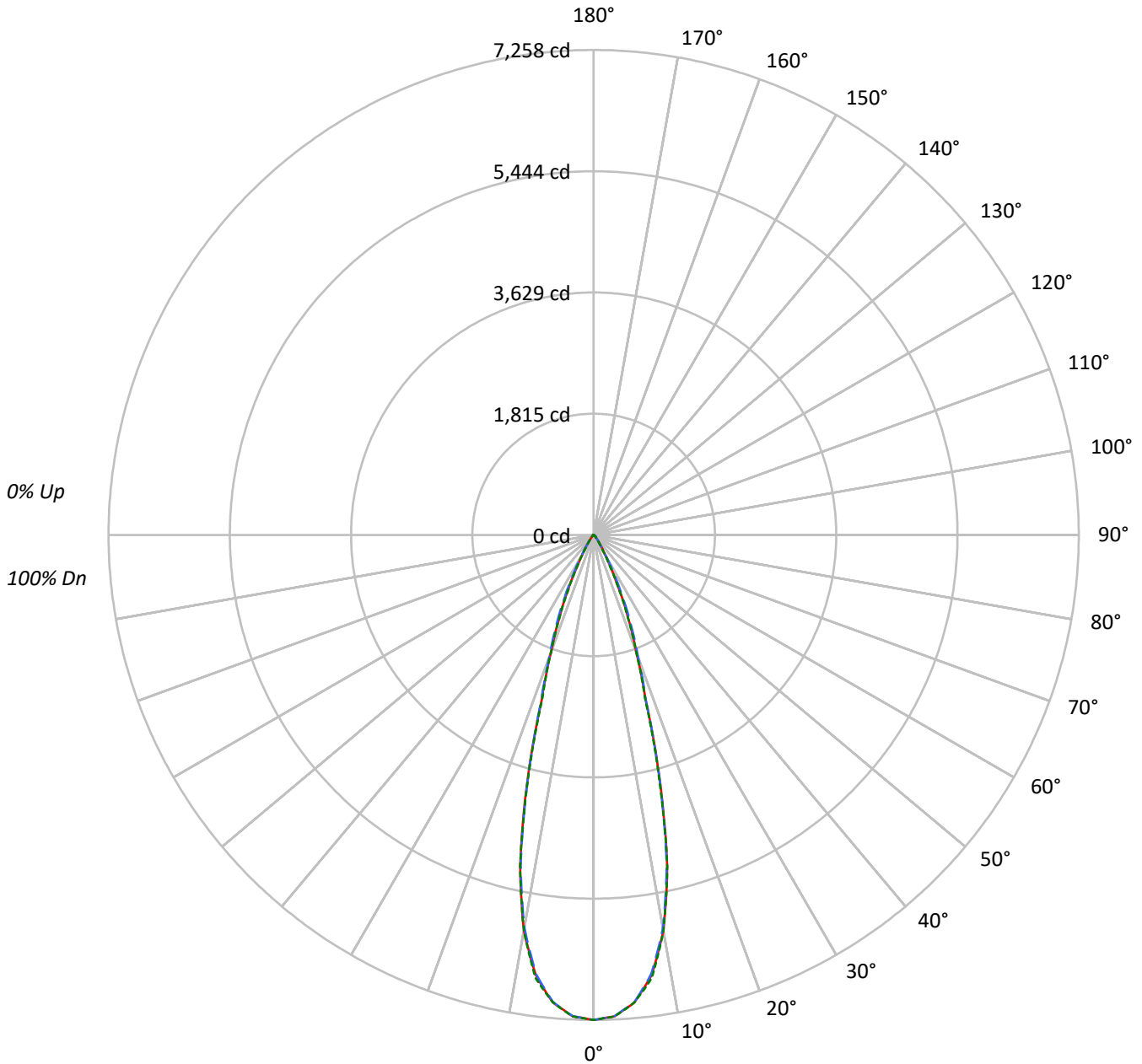


Downlight



TEST NUMBER: P746033
CATALOG NUMBER: LD4D30D010-EU4DR3020359050-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P746033

CATALOG NUMBER: LD4D30D010-EU4DR3020359050-4LBDP1B

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 | | | | | | 100 | | | | | | | | | | | | | |
| 1 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | 96 | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | 92 | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | 89 | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | 85 | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | 82 | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | 79 | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | 77 | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | 74 | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | 72 | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | 69 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 555583 | 555583 | 555583 |
| 5° | 539633 | 539003 | 539664 |
| 10° | 467402 | 464107 | 467293 |
| 15° | 304961 | 303321 | 301799 |
| 20° | 151638 | 157332 | 151443 |
| 25° | 76391 | 86137 | 74820 |
| 30° | 30581 | 33330 | 26648 |
| 35° | 14185 | 13587 | 11391 |
| 40° | 6125 | 6805 | 5775 |
| 45° | 4319 | 5369 | 4362 |
| 50° | 1489 | 3906 | 1572 |
| 55° | 854 | 1615 | 907 |
| 60° | 597 | 704 | 597 |
| 65° | 380 | 380 | 380 |
| 70° | 246 | 157 | 246 |
| 75° | 0 | 89 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5369 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 638.3 | 28.3 |
| 10°-20° | 1027.9 | 45.5 |
| 20°-30° | 444.2 | 19.7 |
| 30°-40° | 101.2 | 4.5 |
| 40°-50° | 34.8 | 1.5 |
| 50°-60° | 8.5 | 0.4 |
| 60°-70° | 2.2 | 0.1 |
| 70°-80° | 0.2 | 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° | 2110.4 | 93.5 |
| 0°-40° | 2211.6 | 98.0 |
| 0°-60° | 2254.9 | 99.9 |
| 0°-90° | 2257.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2257.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 7258 | 7258 | 7258 | 7258 | 7258 | |
| 5° | 7023 | 7016 | 7015 | 7030 | 7024 | 639 |
| 15° | 3848 | 3802 | 3828 | 3815 | 3808 | 1030 |
| 25° | 904 | 939 | 1020 | 915 | 886 | 433 |
| 35° | 152 | 155 | 145 | 144 | 122 | 103 |
| 45° | 40 | 50 | 50 | 50 | 40 | 28 |
| 55° | 6 | 7 | 12 | 7 | 7 | 6 |
| 65° | 2 | 2 | 2 | 2 | 2 | 2 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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° | 7258.4 | 7258.4 | 7258.4 | 7258.4 | 7258.4 |
| 2.5° | 7210.3 | 7205.3 | 7208.2 | 7211.7 | 7213.2 |
| 5° | 7023.2 | 7016.5 | 7015.0 | 7029.6 | 7023.6 |
| 7.5° | 6645.8 | 6636.2 | 6621.6 | 6654.7 | 6685.8 |
| 10° | 6013.6 | 6002.9 | 5971.2 | 5986.9 | 6012.2 |
| 12.5° | 5080.3 | 5045.7 | 5045.1 | 5094.9 | 5088.1 |
| 15° | 3848.4 | 3802.0 | 3827.7 | 3815.2 | 3808.5 |
| 17.5° | 2587.9 | 2570.1 | 2604.3 | 2594.0 | 2549.4 |
| 20° | 1861.6 | 1866.3 | 1931.5 | 1898.7 | 1859.2 |
| 22.5° | 1358.5 | 1375.2 | 1452.5 | 1368.1 | 1337.1 |
| 25° | 904.5 | 938.7 | 1019.9 | 914.8 | 885.9 |
| 27.5° | 556.3 | 572.0 | 654.3 | 549.2 | 533.5 |
| 30° | 346.0 | 338.2 | 377.1 | 323.6 | 301.5 |
| 32.5° | 227.0 | 217.0 | 229.5 | 206.0 | 188.2 |
| 35° | 151.8 | 155.0 | 145.4 | 144.3 | 121.9 |
| 37.5° | 94.8 | 109.0 | 96.2 | 102.6 | 78.4 |
| 40° | 61.3 | 79.1 | 68.1 | 75.2 | 57.8 |
| 42.5° | 50.2 | 61.0 | 56.0 | 59.5 | 51.3 |
| 45° | 39.9 | 49.6 | 49.6 | 49.6 | 40.3 |
| 47.5° | 22.1 | 33.1 | 42.4 | 33.9 | 23.5 |
| 50° | 12.5 | 16.7 | 32.8 | 17.5 | 13.2 |
| 52.5° | 8.5 | 9.6 | 22.5 | 10.0 | 8.9 |
| 55° | 6.4 | 6.8 | 12.1 | 7.1 | 6.8 |
| 57.5° | 5.0 | 5.3 | 6.4 | 5.3 | 5.0 |
| 60° | 3.9 | 3.9 | 4.6 | 4.3 | 3.9 |
| 62.5° | 2.9 | 2.9 | 3.2 | 2.9 | 2.9 |
| 65° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 67.5° | 1.1 | 1.4 | 1.4 | 1.4 | 1.4 |
| 70° | 1.1 | 0.7 | 0.7 | 0.7 | 1.1 |
| 72.5° | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 |
| 75° | 0.0 | 0.0 | 0.3 | 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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