

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: P745984

Luminaire Tested: LD4D30D010-EU4DR3020359027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745984
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-EU4DR3020359027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2259.4 lumens
Efficiency: N/A
Efficacy: 77.9 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



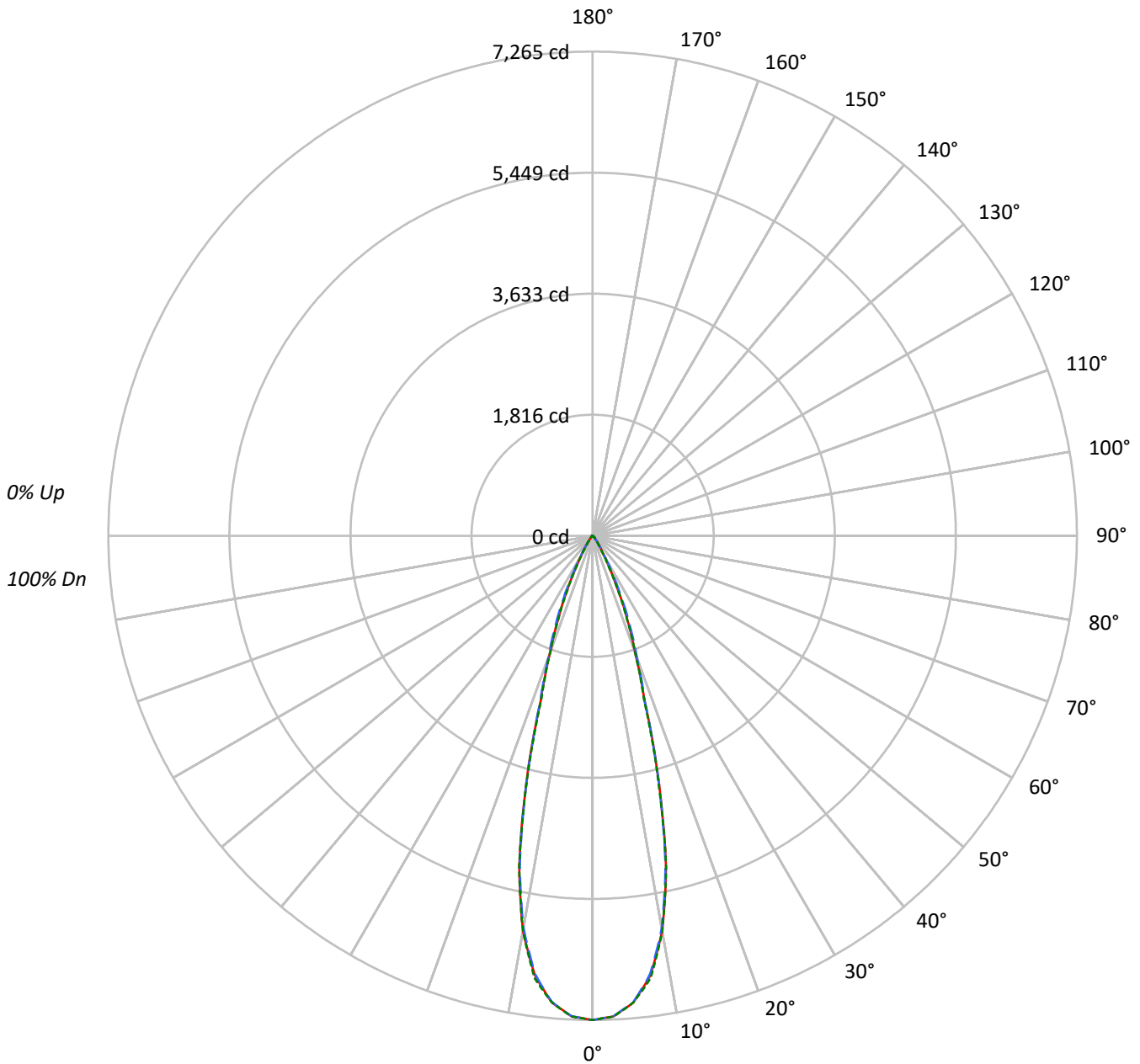
Downlight



TEST NUMBER: P745984

CATALOG NUMBER: LD4D30D010-EU4DR3020359027-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P745984

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|--|--|--|--|---|
| RF | 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 | 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° | 556103 | 556103 | 556103 |
| 5° | 540140 | 539510 | 540171 |
| 10° | 467845 | 464550 | 467736 |
| 15° | 305246 | 303606 | 302076 |
| 20° | 151785 | 157478 | 151581 |
| 25° | 76458 | 86221 | 74896 |
| 30° | 30608 | 33356 | 26675 |
| 35° | 14194 | 13596 | 11400 |
| 40° | 6135 | 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° | 638.9 | 28.3 |
| 10°-20° | 1028.9 | 45.5 |
| 20°-30° | 444.6 | 19.7 |
| 30°-40° | 101.3 | 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° | 2112.4 | 93.5 |
| 0°-40° | 2213.7 | 98.0 |
| 0°-60° | 2257.0 | 99.9 |
| 0°-90° | 2259.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2259.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 7265 | 7265 | 7265 | 7265 | 7265 | |
| 5° | 7030 | 7023 | 7022 | 7036 | 7030 | 639 |
| 15° | 3852 | 3806 | 3831 | 3819 | 3812 | 1031 |
| 25° | 905 | 940 | 1021 | 916 | 887 | 433 |
| 35° | 152 | 155 | 146 | 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° | 7265.2 | 7265.2 | 7265.2 | 7265.2 | 7265.2 |
| 2.5° | 7217.1 | 7212.1 | 7214.9 | 7218.5 | 7219.9 |
| 5° | 7029.8 | 7023.1 | 7021.6 | 7036.2 | 7030.2 |
| 7.5° | 6652.1 | 6642.4 | 6627.8 | 6661.0 | 6692.0 |
| 10° | 6019.3 | 6008.6 | 5976.9 | 5992.5 | 6017.9 |
| 12.5° | 5085.1 | 5050.5 | 5049.8 | 5099.7 | 5093.0 |
| 15° | 3852.0 | 3805.6 | 3831.3 | 3818.8 | 3812.0 |
| 17.5° | 2590.4 | 2572.5 | 2606.8 | 2596.4 | 2551.8 |
| 20° | 1863.4 | 1868.0 | 1933.3 | 1900.5 | 1860.9 |
| 22.5° | 1359.7 | 1376.5 | 1453.9 | 1369.4 | 1338.4 |
| 25° | 905.3 | 939.5 | 1020.9 | 915.6 | 886.8 |
| 27.5° | 556.8 | 572.5 | 654.9 | 549.7 | 534.0 |
| 30° | 346.3 | 338.5 | 377.4 | 323.9 | 301.8 |
| 32.5° | 227.2 | 217.2 | 229.7 | 206.1 | 188.3 |
| 35° | 151.9 | 155.2 | 145.5 | 144.4 | 122.0 |
| 37.5° | 94.9 | 109.1 | 96.3 | 102.7 | 78.5 |
| 40° | 61.4 | 79.2 | 68.1 | 75.3 | 57.8 |
| 42.5° | 50.3 | 61.0 | 56.0 | 59.6 | 51.3 |
| 45° | 39.9 | 49.6 | 49.6 | 49.6 | 40.3 |
| 47.5° | 22.1 | 33.2 | 42.5 | 33.9 | 23.5 |
| 50° | 12.5 | 16.8 | 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 | 7.2 | 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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