

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: P740074

Luminaire Tested: LD4D05D010-EU4DR300210IC9024-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740074
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: LD4D05D010-EU4DR300210IC9024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 568.4 lumens
Efficiency: N/A
Efficacy: 75.8 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): 7.5
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



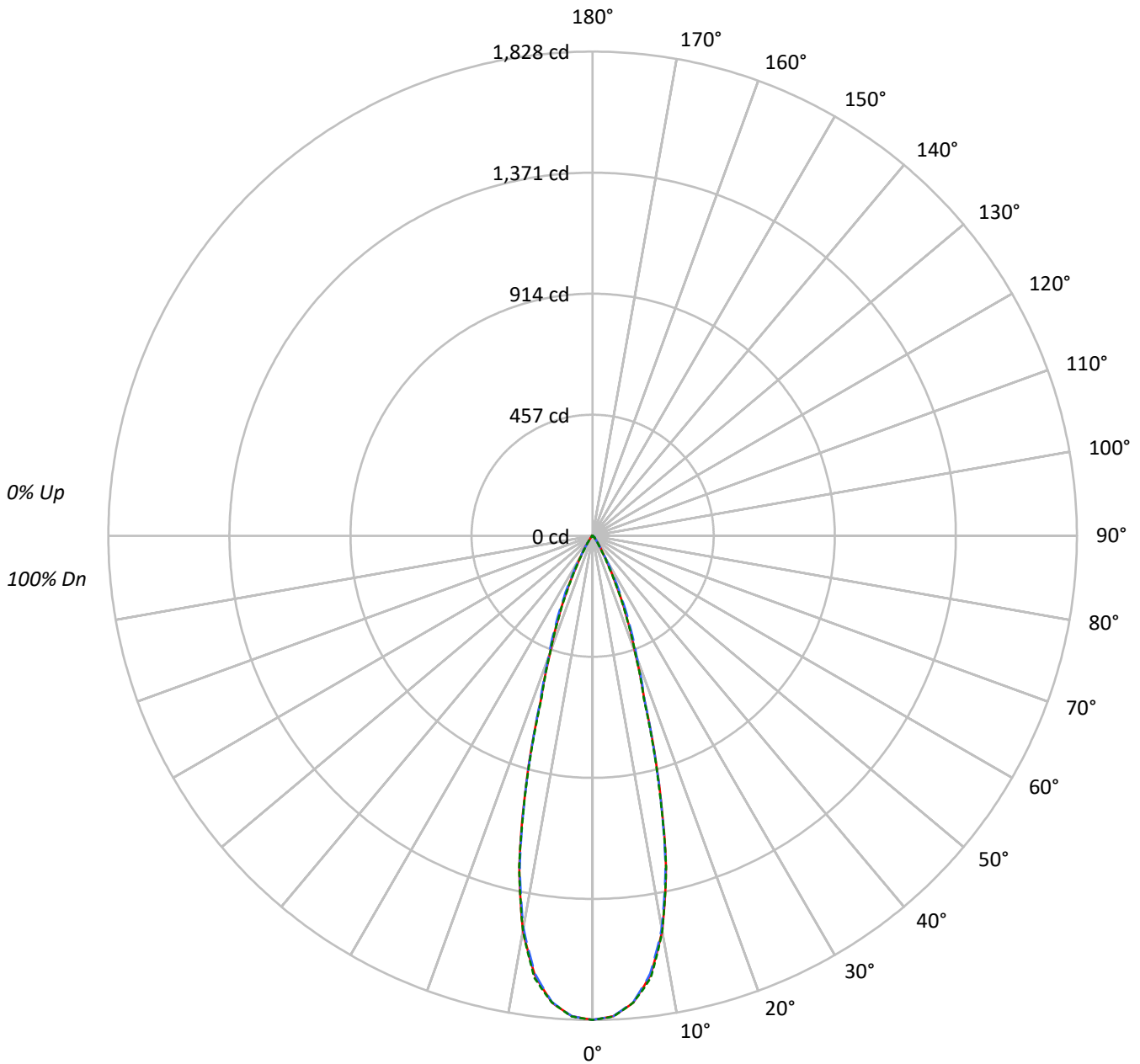
Downlight



TEST NUMBER: P740074

CATALOG NUMBER: LD4D05D010-EU4DR300210IC9024-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P740074

CATALOG NUMBER: LD4D05D010-EU4DR300210IC9024-4LBDP1LI

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 | 87 | 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° | 139898 | 139898 | 139898 |
| 5° | 135884 | 135723 | 135892 |
| 10° | 117698 | 116866 | 117667 |
| 15° | 76787 | 76375 | 75995 |
| 20° | 38186 | 39620 | 38138 |
| 25° | 19231 | 21688 | 18834 |
| 30° | 7698 | 8388 | 6708 |
| 35° | 3569 | 3420 | 2869 |
| 40° | 1539 | 1709 | 1459 |
| 45° | 1082 | 1353 | 1093 |
| 50° | 381 | 988 | 393 |
| 55° | 214 | 400 | 227 |
| 60° | 153 | 168 | 153 |
| 65° | 91 | 91 | 91 |
| 70° | 67 | 45 | 67 |
| 75° | 0 | 30 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1353 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 160.7 | 28.3 |
| 10°-20° | 258.8 | 45.5 |
| 20°-30° | 111.8 | 19.7 |
| 30°-40° | 25.5 | 4.5 |
| 40°-50° | 8.8 | 1.5 |
| 50°-60° | 2.1 | 0.4 |
| 60°-70° | 0.5 | 0.1 |
| 70°-80° | 0.1 | 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° | 531.4 | 93.5 |
| 0°-40° | 556.9 | 98.0 |
| 0°-60° | 567.8 | 99.9 |
| 0°-90° | 568.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 568.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1828 | 1828 | 1828 | 1828 | 1828 | |
| 5° | 1768 | 1767 | 1766 | 1770 | 1769 | 161 |
| 15° | 969 | 957 | 964 | 961 | 959 | 259 |
| 25° | 228 | 236 | 257 | 230 | 223 | 109 |
| 35° | 38 | 39 | 37 | 36 | 31 | 26 |
| 45° | 10 | 12 | 12 | 12 | 10 | 7 |
| 55° | 2 | 2 | 3 | 2 | 2 | 2 |
| 65° | 0 | 0 | 0 | 0 | 0 | 1 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1827.7 | 1827.7 | 1827.7 | 1827.7 | 1827.7 |
| 2.5° | 1815.6 | 1814.3 | 1815.1 | 1815.9 | 1816.3 |
| 5° | 1768.5 | 1766.8 | 1766.4 | 1770.1 | 1768.6 |
| 7.5° | 1673.4 | 1671.0 | 1667.3 | 1675.7 | 1683.5 |
| 10° | 1514.3 | 1511.6 | 1503.6 | 1507.5 | 1513.9 |
| 12.5° | 1279.2 | 1270.5 | 1270.3 | 1282.9 | 1281.2 |
| 15° | 969.0 | 957.3 | 963.8 | 960.7 | 959.0 |
| 17.5° | 651.6 | 647.1 | 655.8 | 653.2 | 641.9 |
| 20° | 468.8 | 469.9 | 486.4 | 478.1 | 468.2 |
| 22.5° | 342.1 | 346.3 | 365.8 | 344.5 | 336.7 |
| 25° | 227.7 | 236.3 | 256.8 | 230.3 | 223.0 |
| 27.5° | 140.1 | 144.0 | 164.7 | 138.3 | 134.4 |
| 30° | 87.1 | 85.1 | 94.9 | 81.5 | 75.9 |
| 32.5° | 57.2 | 54.7 | 57.8 | 51.9 | 47.4 |
| 35° | 38.2 | 39.0 | 36.6 | 36.3 | 30.7 |
| 37.5° | 23.9 | 27.4 | 24.2 | 25.8 | 19.8 |
| 40° | 15.4 | 19.9 | 17.1 | 18.9 | 14.6 |
| 42.5° | 12.7 | 15.4 | 14.1 | 15.0 | 12.9 |
| 45° | 10.0 | 12.5 | 12.5 | 12.5 | 10.1 |
| 47.5° | 5.6 | 8.4 | 10.7 | 8.5 | 5.9 |
| 50° | 3.2 | 4.2 | 8.3 | 4.4 | 3.3 |
| 52.5° | 2.2 | 2.4 | 5.7 | 2.5 | 2.2 |
| 55° | 1.6 | 1.7 | 3.0 | 1.8 | 1.7 |
| 57.5° | 1.3 | 1.3 | 1.6 | 1.3 | 1.3 |
| 60° | 1.0 | 1.0 | 1.1 | 1.1 | 1.0 |
| 62.5° | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 |
| 65° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 67.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 70° | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 |
| 72.5° | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 75° | 0.0 | 0.0 | 0.1 | 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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