

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: P739907

Luminaire Tested: LD4D05D010-EU4DR150210IC9050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D05D010-EU4DR150210IC9050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 679.7 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
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

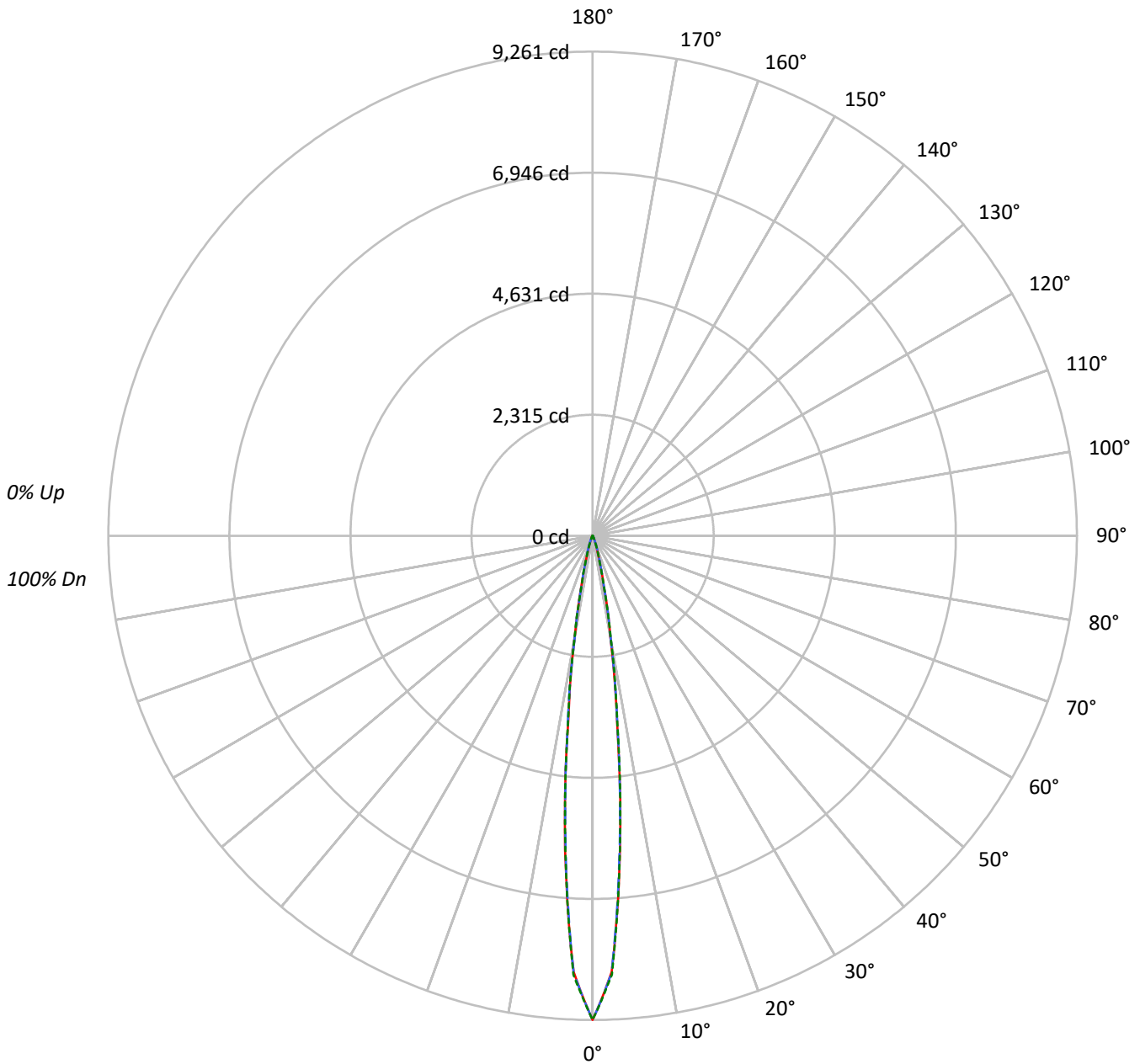


Downlight



TEST NUMBER: P739907
CATALOG NUMBER: LD4D05D010-EU4DR150210IC9050-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P739907

CATALOG NUMBER: LD4D05D010-EU4DR150210IC9050-4LBS1B

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 | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 103 | 101 | 100 | 100 | 98 | | | | | | 98 | | | | | | | | | | | | | |
| 2 | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 98 | 98 | 96 | | | | | | 96 | | | | | | | | | | | | | |
| 3 | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99 | 100 | 99 | 97 | 98 | 97 | 96 | 94 | | | | | | 94 | | | | | | | | | | | | | |
| 4 | 108 | 103 | 100 | 98 | 106 | 102 | 99 | 97 | 100 | 98 | 96 | 99 | 97 | 95 | 97 | 95 | 94 | 93 | | | | | | 93 | | | | | | | | | | | | | |
| 5 | 106 | 101 | 98 | 95 | 104 | 100 | 97 | 95 | 98 | 96 | 94 | 97 | 95 | 93 | 96 | 94 | 92 | 92 | | | | | | 92 | | | | | | | | | | | | | |
| 6 | 104 | 99 | 95 | 93 | 102 | 98 | 95 | 93 | 97 | 94 | 92 | 96 | 93 | 92 | 95 | 93 | 91 | 90 | | | | | | 90 | | | | | | | | | | | | | |
| 7 | 102 | 97 | 94 | 91 | 101 | 96 | 93 | 91 | 95 | 93 | 91 | 94 | 92 | 90 | 93 | 91 | 90 | 89 | | | | | | 89 | | | | | | | | | | | | | |
| 8 | 100 | 95 | 92 | 90 | 99 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 92 | 90 | 89 | 88 | | | | | | 88 | | | | | | | | | | | | | |
| 9 | 99 | 93 | 90 | 88 | 98 | 93 | 90 | 88 | 92 | 90 | 88 | 92 | 89 | 88 | 91 | 89 | 87 | 87 | | | | | | 87 | | | | | | | | | | | | | |
| 10 | 97 | 92 | 89 | 87 | 96 | 92 | 89 | 87 | 91 | 89 | 87 | 91 | 88 | 87 | 90 | 88 | 86 | 86 | | | | | | 86 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1042002 | 1042002 | 1042002 |
| 5° | 612324 | 604397 | 609184 |
| 10° | 182752 | 184031 | 186848 |
| 15° | 45461 | 46347 | 44914 |
| 20° | 13599 | 15751 | 13885 |
| 25° | 4791 | 6107 | 4853 |
| 30° | 1760 | 2321 | 1790 |
| 35° | 886 | 995 | 857 |
| 40° | 554 | 611 | 554 |
| 45° | 413 | 441 | 413 |
| 50° | 327 | 327 | 327 |
| 55° | 271 | 271 | 271 |
| 60° | 218 | 218 | 218 |
| 65° | 171 | 171 | 171 |
| 70° | 146 | 146 | 146 |
| 75° | 91 | 91 | 121 |
| 80° | 63 | 63 | 63 |
| 85° | 33 | 33 | 33 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 441 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 440.8 | 64.9 |
| 10°-20° | 181.3 | 26.7 |
| 20°-30° | 36.0 | 5.3 |
| 30°-40° | 9.0 | 1.3 |
| 40°-50° | 4.7 | 0.7 |
| 50°-60° | 3.5 | 0.5 |
| 60°-70° | 2.5 | 0.4 |
| 70°-80° | 1.4 | 0.2 |
| 80°-90° | 0.4 | 0.1 |
| 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° | 658.2 | 96.8 |
| 0°-40° | 667.1 | 98.1 |
| 0°-60° | 675.4 | 99.4 |
| 0°-90° | 679.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 679.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 9261 | 9261 | 9261 | 9261 | 9261 | |
| 5° | 6025 | 5963 | 5947 | 5988 | 5994 | 440 |
| 15° | 523 | 533 | 534 | 524 | 517 | 179 |
| 25° | 62 | 70 | 78 | 69 | 62 | 32 |
| 35° | 12 | 13 | 14 | 13 | 12 | 8 |
| 45° | 6 | 6 | 6 | 6 | 6 | 5 |
| 55° | 4 | 4 | 4 | 4 | 4 | 3 |
| 65° | 2 | 2 | 2 | 2 | 2 | 2 |
| 75° | 1 | 1 | 1 | 1 | 2 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P739907

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 9260.6 | 9260.6 | 9260.6 | 9260.6 | 9260.6 |
| 2.5° | 8353.4 | 8360.4 | 8363.2 | 8371.4 | 8402.0 |
| 5° | 6025.1 | 5963.2 | 5947.1 | 5988.3 | 5994.2 |
| 7.5° | 3569.0 | 3581.6 | 3627.5 | 3637.7 | 3600.8 |
| 10° | 1958.6 | 1974.7 | 1972.3 | 1986.4 | 2002.5 |
| 12.5° | 1001.6 | 989.1 | 985.2 | 1001.2 | 978.9 |
| 15° | 523.4 | 533.2 | 533.6 | 524.1 | 517.1 |
| 17.5° | 281.5 | 292.8 | 311.7 | 296.4 | 272.9 |
| 20° | 166.2 | 176.4 | 192.5 | 179.9 | 169.7 |
| 22.5° | 102.7 | 110.9 | 122.3 | 112.5 | 104.3 |
| 25° | 61.5 | 69.8 | 78.4 | 69.4 | 62.3 |
| 27.5° | 36.5 | 43.5 | 49.0 | 43.1 | 36.1 |
| 30° | 23.5 | 27.4 | 31.0 | 27.1 | 23.9 |
| 32.5° | 16.5 | 18.0 | 19.6 | 18.0 | 16.5 |
| 35° | 12.2 | 12.9 | 13.7 | 12.9 | 11.8 |
| 37.5° | 9.4 | 10.2 | 10.6 | 9.8 | 9.0 |
| 40° | 7.8 | 8.2 | 8.6 | 8.2 | 7.8 |
| 42.5° | 6.7 | 7.1 | 7.1 | 7.1 | 6.7 |
| 45° | 5.9 | 5.9 | 6.3 | 5.9 | 5.9 |
| 47.5° | 5.1 | 5.1 | 5.5 | 5.1 | 5.1 |
| 50° | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 52.5° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 55° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 57.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 60° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| 62.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 65° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 67.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 70° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 72.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 75° | 1.2 | 1.2 | 1.2 | 1.2 | 1.6 |
| 77.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 80° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 82.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 85° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

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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