

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: P739908

Luminaire Tested: LD4D05D010-EU4DR150210IC9050-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739908
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-EU4DR150210IC9050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 724.2 lumens
Efficiency: N/A
Efficacy: 96.6 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 (Ain): 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

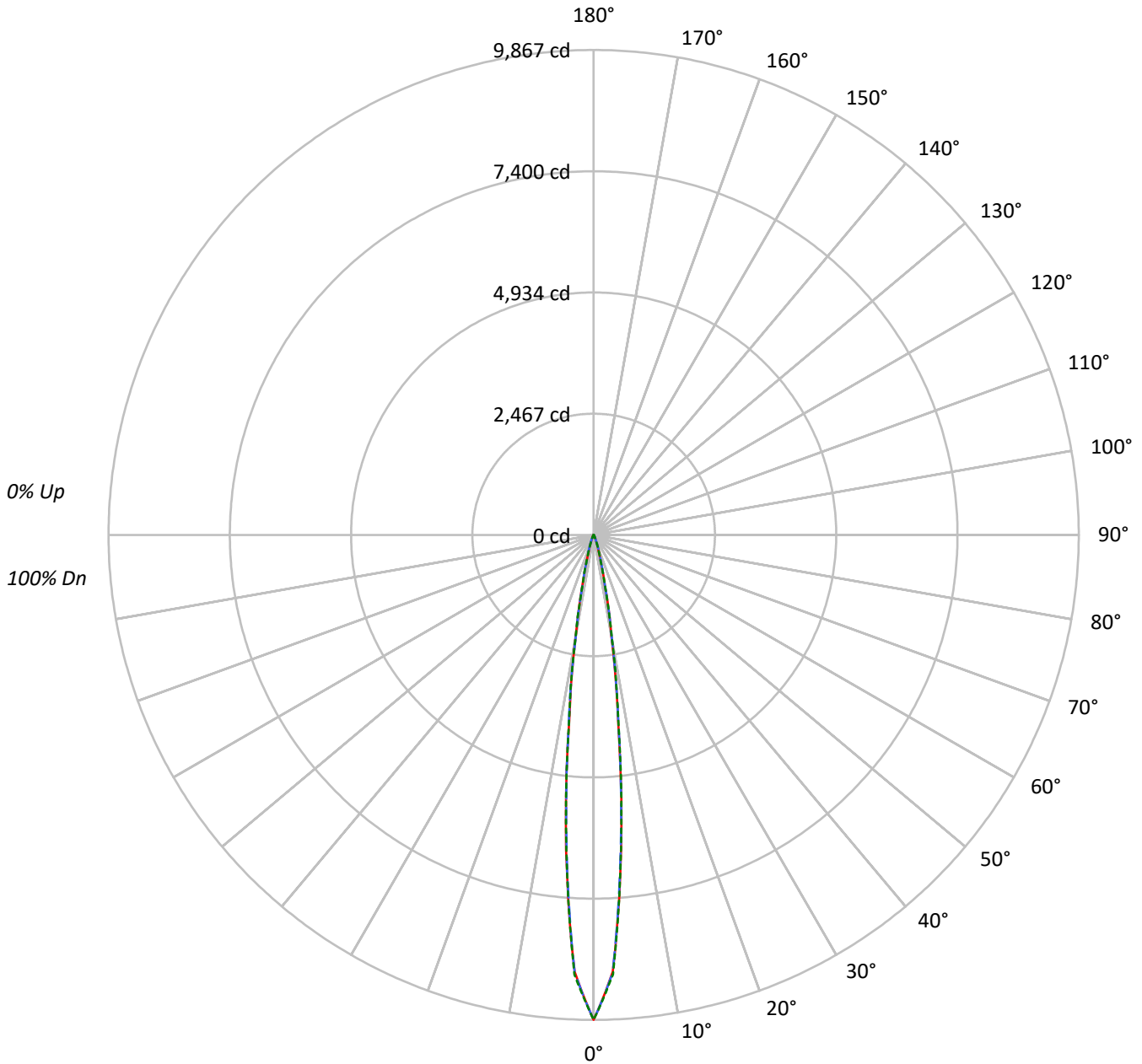


Downlight



TEST NUMBER: P739908
CATALOG NUMBER: LD4D05D010-EU4DR150210IC9050-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P739908

CATALOG NUMBER: LD4D05D010-EU4DR150210IC9050-4LBS1H

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 | 88 | 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° | 1110223 | 1110223 | 1110223 |
| 5° | 652417 | 643972 | 649063 |
| 10° | 194714 | 196077 | 199081 |
| 15° | 48431 | 49378 | 47849 |
| 20° | 14491 | 16782 | 14802 |
| 25° | 5110 | 6505 | 5173 |
| 30° | 1880 | 2471 | 1909 |
| 35° | 937 | 1060 | 908 |
| 40° | 597 | 653 | 597 |
| 45° | 441 | 469 | 441 |
| 50° | 348 | 348 | 348 |
| 55° | 292 | 292 | 292 |
| 60° | 232 | 232 | 232 |
| 65° | 178 | 178 | 178 |
| 70° | 154 | 154 | 154 |
| 75° | 98 | 98 | 128 |
| 80° | 63 | 63 | 63 |
| 85° | 33 | 33 | 33 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 469 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 469.7 | 64.9 |
| 10°-20° | 193.2 | 26.7 |
| 20°-30° | 38.4 | 5.3 |
| 30°-40° | 9.6 | 1.3 |
| 40°-50° | 5.0 | 0.7 |
| 50°-60° | 3.7 | 0.5 |
| 60°-70° | 2.6 | 0.4 |
| 70°-80° | 1.5 | 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° | 701.2 | 96.8 |
| 0°-40° | 710.8 | 98.2 |
| 0°-60° | 719.6 | 99.4 |
| 0°-90° | 724.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 724.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 9867 | 9867 | 9867 | 9867 | 9867 | |
| 5° | 6420 | 6354 | 6336 | 6380 | 6387 | 469 |
| 15° | 558 | 568 | 568 | 558 | 551 | 191 |
| 25° | 66 | 74 | 84 | 74 | 66 | 34 |
| 35° | 13 | 14 | 15 | 14 | 12 | 9 |
| 45° | 6 | 6 | 7 | 6 | 6 | 5 |
| 55° | 4 | 4 | 4 | 4 | 4 | 4 |
| 65° | 2 | 2 | 2 | 2 | 2 | 3 |
| 75° | 1 | 1 | 1 | 1 | 2 | 2 |
| 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° | 9866.9 | 9866.9 | 9866.9 | 9866.9 | 9866.9 |
| 2.5° | 8900.3 | 8907.8 | 8910.8 | 8919.5 | 8952.1 |
| 5° | 6419.6 | 6353.6 | 6336.5 | 6380.3 | 6386.6 |
| 7.5° | 3802.7 | 3816.1 | 3865.0 | 3875.8 | 3836.6 |
| 10° | 2086.8 | 2103.9 | 2101.4 | 2116.5 | 2133.6 |
| 12.5° | 1067.2 | 1053.9 | 1049.7 | 1066.8 | 1043.0 |
| 15° | 557.6 | 568.1 | 568.5 | 558.5 | 550.9 |
| 17.5° | 299.9 | 312.0 | 332.1 | 315.8 | 290.7 |
| 20° | 177.1 | 188.0 | 205.1 | 191.7 | 180.9 |
| 22.5° | 109.4 | 118.2 | 130.3 | 119.9 | 111.1 |
| 25° | 65.6 | 74.4 | 83.5 | 73.9 | 66.4 |
| 27.5° | 38.8 | 46.4 | 52.2 | 45.9 | 38.4 |
| 30° | 25.1 | 29.2 | 33.0 | 28.8 | 25.5 |
| 32.5° | 17.5 | 19.2 | 20.9 | 19.2 | 17.5 |
| 35° | 12.9 | 13.8 | 14.6 | 13.8 | 12.5 |
| 37.5° | 10.0 | 10.9 | 11.3 | 10.4 | 9.6 |
| 40° | 8.4 | 8.8 | 9.2 | 8.8 | 8.4 |
| 42.5° | 7.1 | 7.5 | 7.5 | 7.5 | 7.1 |
| 45° | 6.3 | 6.3 | 6.7 | 6.3 | 6.3 |
| 47.5° | 5.4 | 5.4 | 5.8 | 5.4 | 5.4 |
| 50° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 52.5° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| 55° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 57.5° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 60° | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 62.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 65° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 67.5° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 70° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 72.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 75° | 1.3 | 1.3 | 1.3 | 1.3 | 1.7 |
| 77.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 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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