

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: P739906

Luminaire Tested: LD4D05D010-EU4DR150210IC9050-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739906
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-EU4DR150210IC9050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 666.4 lumens
Efficiency: N/A
Efficacy: 88.9 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



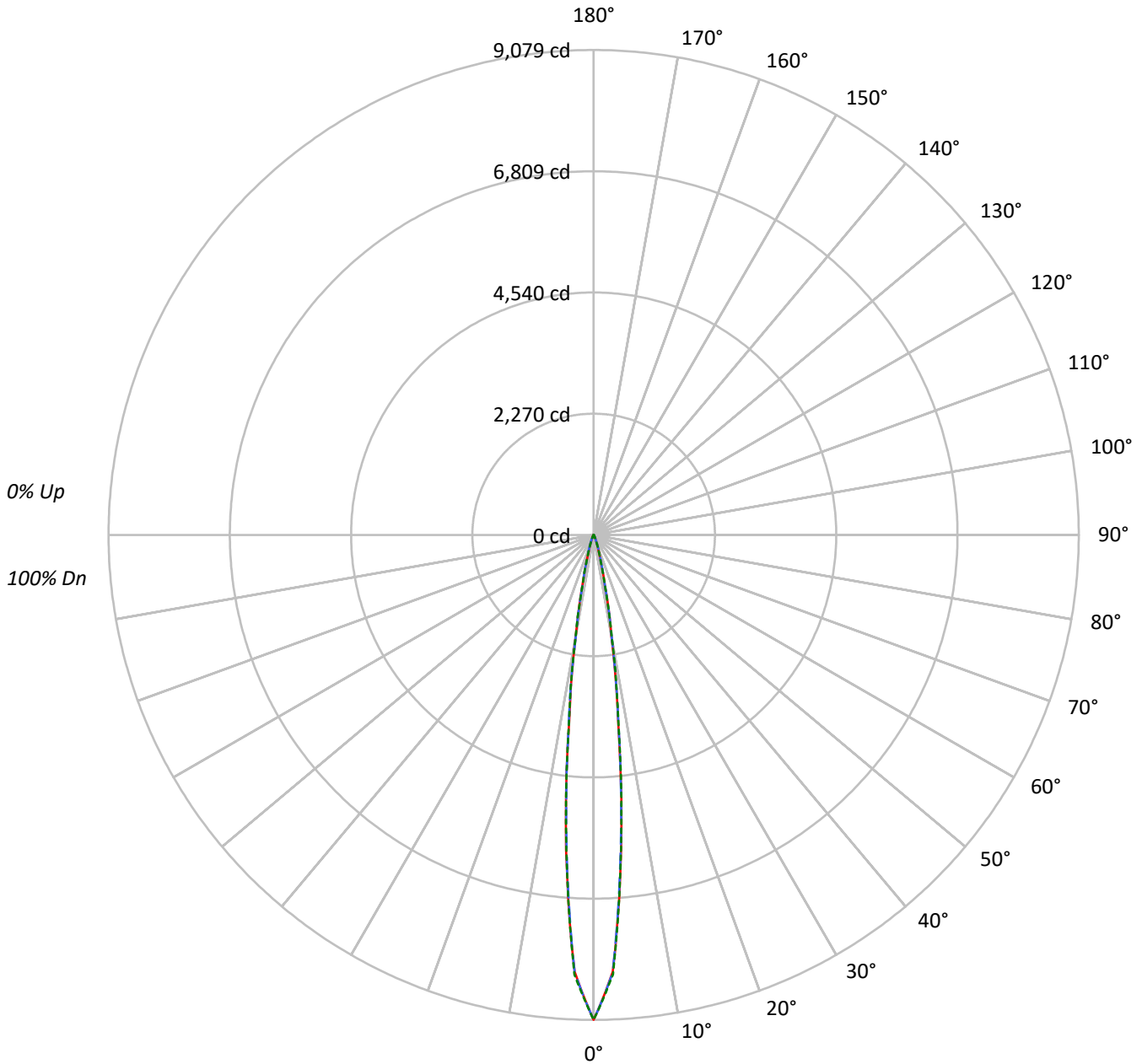
Downlight



TEST NUMBER: P739906

CATALOG NUMBER: LD4D05D010-EU4DR150210IC9050-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P739906

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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 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | | | | | | | |
| 1 | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 103 | 101 | 100 | 100 | 98 | | | | | | | | | | | | | | | | | | | |
| 2 | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 98 | 98 | 96 | | | | | | | | | | | | | | | | | | | |
| 3 | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99 | 100 | 99 | 97 | 98 | 97 | 96 | 94 | | | | | | | | | | | | | | | | | | | |
| 4 | 108 | 103 | 100 | 98 | 106 | 102 | 99 | 97 | 100 | 98 | 96 | 99 | 97 | 95 | 97 | 95 | 94 | 93 | | | | | | | | | | | | | | | | | | | |
| 5 | 106 | 101 | 98 | 95 | 104 | 100 | 97 | 95 | 98 | 96 | 94 | 97 | 95 | 93 | 96 | 94 | 92 | 92 | | | | | | | | | | | | | | | | | | | |
| 6 | 104 | 99 | 95 | 93 | 102 | 98 | 95 | 93 | 97 | 94 | 92 | 96 | 93 | 92 | 95 | 93 | 91 | 90 | | | | | | | | | | | | | | | | | | | |
| 7 | 102 | 97 | 94 | 91 | 101 | 96 | 93 | 91 | 95 | 93 | 91 | 94 | 92 | 90 | 93 | 91 | 90 | 89 | | | | | | | | | | | | | | | | | | | |
| 8 | 100 | 95 | 92 | 90 | 99 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 92 | 90 | 89 | 88 | | | | | | | | | | | | | | | | | | | |
| 9 | 99 | 93 | 90 | 88 | 98 | 93 | 90 | 88 | 92 | 90 | 88 | 92 | 89 | 88 | 91 | 89 | 87 | 87 | | | | | | | | | | | | | | | | | | | |
| 10 | 97 | 92 | 89 | 87 | 96 | 92 | 89 | 87 | 91 | 89 | 87 | 91 | 88 | 87 | 90 | 88 | 86 | 86 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1021557 | 1021557 | 1021557 |
| 5° | 600312 | 592537 | 597232 |
| 10° | 179169 | 180420 | 183181 |
| 15° | 44566 | 45435 | 44028 |
| 20° | 13337 | 15440 | 13615 |
| 25° | 4697 | 5991 | 4760 |
| 30° | 1730 | 2276 | 1752 |
| 35° | 864 | 980 | 835 |
| 40° | 547 | 604 | 547 |
| 45° | 406 | 427 | 406 |
| 50° | 320 | 320 | 320 |
| 55° | 264 | 264 | 264 |
| 60° | 218 | 218 | 218 |
| 65° | 164 | 164 | 164 |
| 70° | 139 | 139 | 139 |
| 75° | 91 | 91 | 113 |
| 80° | 63 | 63 | 63 |
| 85° | 33 | 33 | 33 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 427 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 432.2 | 64.9 |
| 10°-20° | 177.8 | 26.7 |
| 20°-30° | 35.3 | 5.3 |
| 30°-40° | 8.8 | 1.3 |
| 40°-50° | 4.6 | 0.7 |
| 50°-60° | 3.4 | 0.5 |
| 60°-70° | 2.4 | 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° | 645.2 | 96.8 |
| 0°-40° | 654.1 | 98.2 |
| 0°-60° | 662.1 | 99.4 |
| 0°-90° | 666.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 666.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 9079 | 9079 | 9079 | 9079 | 9079 | |
| 5° | 5907 | 5846 | 5830 | 5871 | 5877 | 431 |
| 15° | 513 | 523 | 523 | 514 | 507 | 176 |
| 25° | 60 | 68 | 77 | 68 | 61 | 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 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 9078.9 | 9078.9 | 9078.9 | 9078.9 | 9078.9 |
| 2.5° | 8189.5 | 8196.4 | 8199.1 | 8207.2 | 8237.2 |
| 5° | 5906.9 | 5846.2 | 5830.4 | 5870.8 | 5876.6 |
| 7.5° | 3499.0 | 3511.3 | 3556.3 | 3566.3 | 3530.2 |
| 10° | 1920.2 | 1935.9 | 1933.6 | 1947.4 | 1963.2 |
| 12.5° | 982.0 | 969.7 | 965.8 | 981.6 | 959.7 |
| 15° | 513.1 | 522.7 | 523.1 | 513.9 | 506.9 |
| 17.5° | 276.0 | 287.1 | 305.6 | 290.6 | 267.5 |
| 20° | 163.0 | 173.0 | 188.7 | 176.4 | 166.4 |
| 22.5° | 100.7 | 108.8 | 119.9 | 110.3 | 102.2 |
| 25° | 60.3 | 68.4 | 76.9 | 68.0 | 61.1 |
| 27.5° | 35.7 | 42.7 | 48.0 | 42.3 | 35.4 |
| 30° | 23.1 | 26.9 | 30.4 | 26.5 | 23.4 |
| 32.5° | 16.1 | 17.7 | 19.2 | 17.7 | 16.1 |
| 35° | 11.9 | 12.7 | 13.5 | 12.7 | 11.5 |
| 37.5° | 9.2 | 10.0 | 10.4 | 9.6 | 8.8 |
| 40° | 7.7 | 8.1 | 8.5 | 8.1 | 7.7 |
| 42.5° | 6.5 | 6.9 | 6.9 | 6.9 | 6.5 |
| 45° | 5.8 | 5.8 | 6.1 | 5.8 | 5.8 |
| 47.5° | 5.0 | 5.0 | 5.4 | 5.0 | 5.0 |
| 50° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| 52.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 55° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 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° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 67.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 70° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 72.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 75° | 1.2 | 1.2 | 1.2 | 1.2 | 1.5 |
| 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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