

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: P777306

Luminaire Tested: LERS4D05D010-EC4DR150210IC9035-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777306
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: LERS4D05D010-EC4DR150210IC9035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 748.8 lumens
Efficiency: N/A
Efficacy: 99.8 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



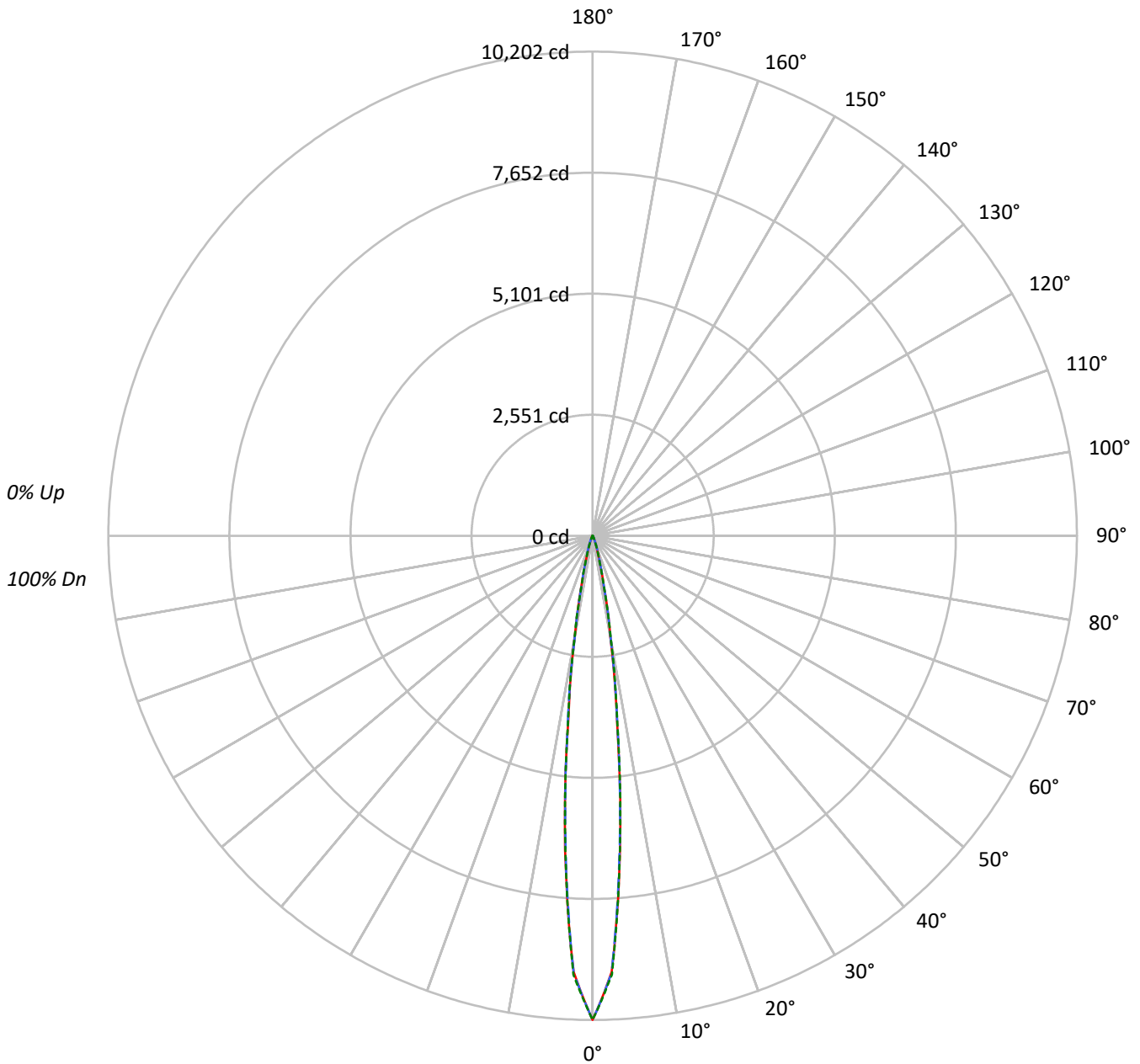
Downlight



TEST NUMBER: P777306

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Luminous Intensity Polar Plot





TEST NUMBER: P777306

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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 | 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° | 1147906 | 1147906 | 1147906 |
| 5° | 674562 | 665832 | 671096 |
| 10° | 201330 | 202739 | 205837 |
| 15° | 50082 | 51054 | 49474 |
| 20° | 14982 | 17355 | 15301 |
| 25° | 5282 | 6731 | 5352 |
| 30° | 1939 | 2553 | 1969 |
| 35° | 973 | 1097 | 944 |
| 40° | 611 | 675 | 611 |
| 45° | 455 | 483 | 455 |
| 50° | 362 | 362 | 362 |
| 55° | 299 | 299 | 299 |
| 60° | 246 | 246 | 246 |
| 65° | 186 | 186 | 186 |
| 70° | 161 | 161 | 161 |
| 75° | 98 | 98 | 128 |
| 80° | 71 | 71 | 71 |
| 85° | 33 | 33 | 33 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 483 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 485.6 | 64.9 |
| 10°-20° | 199.8 | 26.7 |
| 20°-30° | 39.7 | 5.3 |
| 30°-40° | 9.9 | 1.3 |
| 40°-50° | 5.2 | 0.7 |
| 50°-60° | 3.9 | 0.5 |
| 60°-70° | 2.7 | 0.4 |
| 70°-80° | 1.6 | 0.2 |
| 80°-90° | 0.5 | 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° | 725.0 | 96.8 |
| 0°-40° | 735.0 | 98.2 |
| 0°-60° | 744.0 | 99.4 |
| 0°-90° | 748.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 748.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10202 | 10202 | 10202 | 10202 | 10202 | |
| 5° | 6638 | 6569 | 6552 | 6597 | 6603 | 485 |
| 15° | 577 | 587 | 588 | 577 | 570 | 198 |
| 25° | 68 | 77 | 86 | 76 | 69 | 36 |
| 35° | 13 | 14 | 15 | 14 | 13 | 9 |
| 45° | 6 | 6 | 7 | 6 | 6 | 5 |
| 55° | 4 | 4 | 4 | 4 | 4 | 4 |
| 65° | 3 | 3 | 3 | 3 | 3 | 3 |
| 75° | 1 | 1 | 1 | 1 | 2 | 2 |
| 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° | 10201.8 | 10201.8 | 10201.8 | 10201.8 | 10201.8 |
| 2.5° | 9202.4 | 9210.2 | 9213.2 | 9222.3 | 9256.0 |
| 5° | 6637.5 | 6569.3 | 6551.6 | 6596.9 | 6603.4 |
| 7.5° | 3931.8 | 3945.6 | 3996.1 | 4007.4 | 3966.8 |
| 10° | 2157.7 | 2175.4 | 2172.8 | 2188.3 | 2206.0 |
| 12.5° | 1103.4 | 1089.6 | 1085.3 | 1103.0 | 1078.4 |
| 15° | 576.6 | 587.4 | 587.8 | 577.4 | 569.6 |
| 17.5° | 310.1 | 322.6 | 343.3 | 326.5 | 300.6 |
| 20° | 183.1 | 194.3 | 212.1 | 198.2 | 187.0 |
| 22.5° | 113.2 | 122.2 | 134.7 | 123.9 | 114.9 |
| 25° | 67.8 | 76.9 | 86.4 | 76.4 | 68.7 |
| 27.5° | 40.2 | 47.9 | 54.0 | 47.5 | 39.7 |
| 30° | 25.9 | 30.2 | 34.1 | 29.8 | 26.3 |
| 32.5° | 18.1 | 19.9 | 21.6 | 19.9 | 18.1 |
| 35° | 13.4 | 14.3 | 15.1 | 14.3 | 13.0 |
| 37.5° | 10.4 | 11.2 | 11.7 | 10.8 | 9.9 |
| 40° | 8.6 | 9.1 | 9.5 | 9.1 | 8.6 |
| 42.5° | 7.3 | 7.8 | 7.8 | 7.8 | 7.3 |
| 45° | 6.5 | 6.5 | 6.9 | 6.5 | 6.5 |
| 47.5° | 5.6 | 5.6 | 6.0 | 5.6 | 5.6 |
| 50° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 52.5° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 55° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 57.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 60° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 62.5° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 65° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 67.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 70° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 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° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 82.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 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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