

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: P740886

Luminaire Tested: LD4D08D010-EU4DR150210IC9030-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740886
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: LD4D08D010-EU4DR150210IC9030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 652.6 lumens
Efficiency: N/A
Efficacy: 73.3 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): 8.9
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

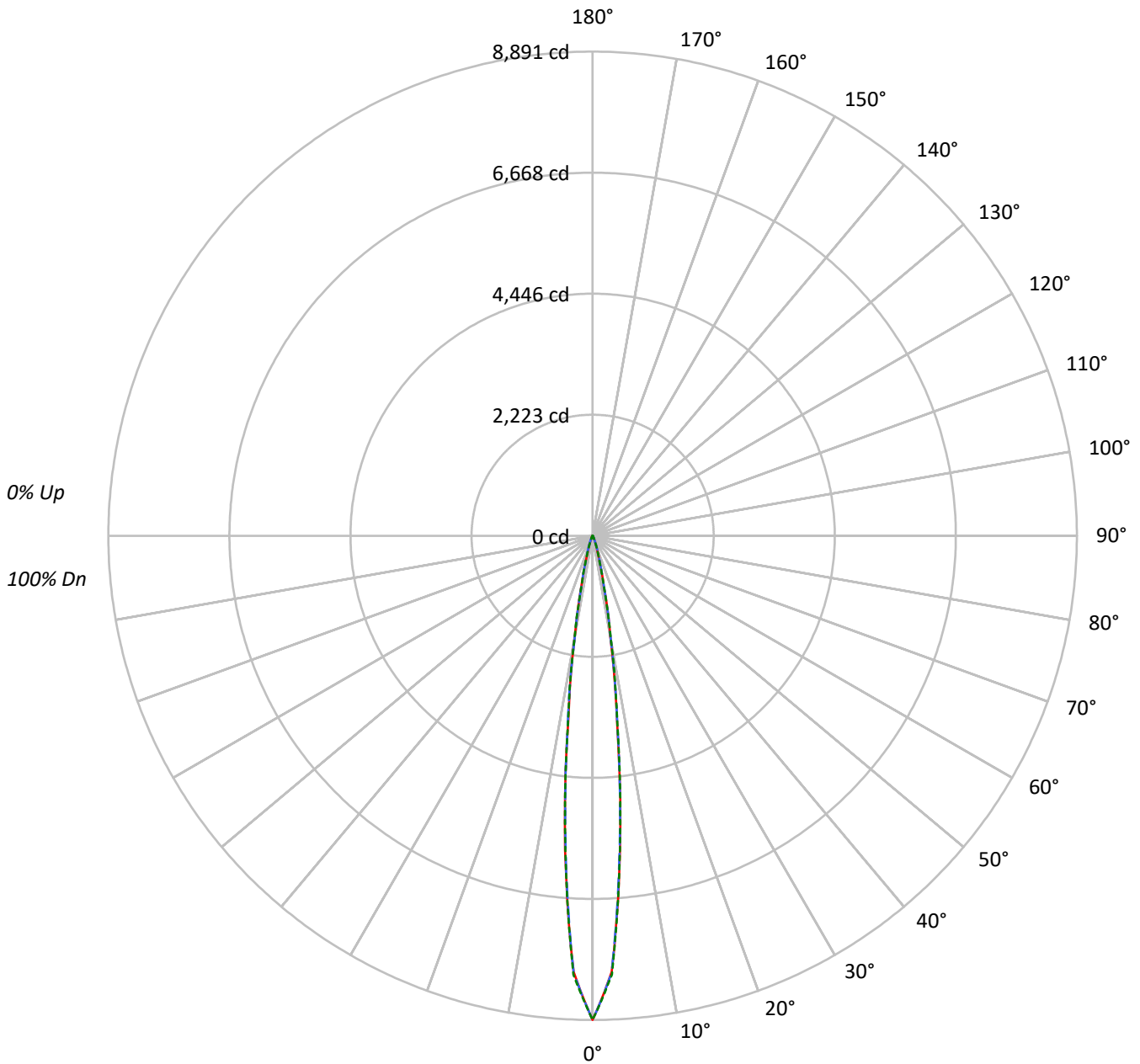


Downlight



TEST NUMBER: P740886
CATALOG NUMBER: LD4D08D010-EU4DR150210IC9030-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P740886

CATALOG NUMBER: LD4D08D010-EU4DR150210IC9030-4LBSQW1B

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° | 1000381 | 1000381 | 1000381 |
| 5° | 587872 | 580260 | 584854 |
| 10° | 175456 | 176678 | 179384 |
| 15° | 43646 | 44488 | 43116 |
| 20° | 13059 | 15121 | 13337 |
| 25° | 4604 | 5866 | 4658 |
| 30° | 1692 | 2224 | 1722 |
| 35° | 850 | 959 | 821 |
| 40° | 533 | 589 | 533 |
| 45° | 392 | 420 | 392 |
| 50° | 313 | 313 | 313 |
| 55° | 264 | 264 | 264 |
| 60° | 211 | 211 | 211 |
| 65° | 164 | 164 | 164 |
| 70° | 139 | 139 | 139 |
| 75° | 83 | 83 | 113 |
| 80° | 63 | 63 | 63 |
| 85° | 33 | 33 | 33 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 420 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 423.2 | 64.9 |
| 10°-20° | 174.1 | 26.7 |
| 20°-30° | 34.6 | 5.3 |
| 30°-40° | 8.6 | 1.3 |
| 40°-50° | 4.5 | 0.7 |
| 50°-60° | 3.4 | 0.5 |
| 60°-70° | 2.4 | 0.4 |
| 70°-80° | 1.3 | 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° | 631.9 | 96.8 |
| 0°-40° | 640.5 | 98.2 |
| 0°-60° | 648.4 | 99.4 |
| 0°-90° | 652.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 652.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 8891 | 8891 | 8891 | 8891 | 8891 | |
| 5° | 5784 | 5725 | 5710 | 5749 | 5755 | 422 |
| 15° | 502 | 512 | 512 | 503 | 496 | 172 |
| 25° | 59 | 67 | 75 | 67 | 60 | 31 |
| 35° | 12 | 12 | 13 | 12 | 11 | 8 |
| 45° | 6 | 6 | 6 | 6 | 6 | 4 |
| 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° | 8890.7 | 8890.7 | 8890.7 | 8890.7 | 8890.7 |
| 2.5° | 8019.8 | 8026.6 | 8029.2 | 8037.1 | 8066.4 |
| 5° | 5784.5 | 5725.0 | 5709.6 | 5749.1 | 5754.8 |
| 7.5° | 3426.5 | 3438.6 | 3482.6 | 3492.4 | 3457.0 |
| 10° | 1880.4 | 1895.8 | 1893.5 | 1907.1 | 1922.5 |
| 12.5° | 961.6 | 949.6 | 945.8 | 961.3 | 939.8 |
| 15° | 502.5 | 511.9 | 512.2 | 503.2 | 496.4 |
| 17.5° | 270.2 | 281.2 | 299.2 | 284.5 | 262.0 |
| 20° | 159.6 | 169.4 | 184.8 | 172.8 | 163.0 |
| 22.5° | 98.6 | 106.5 | 117.4 | 108.0 | 100.1 |
| 25° | 59.1 | 67.0 | 75.3 | 66.6 | 59.8 |
| 27.5° | 35.0 | 41.8 | 47.0 | 41.4 | 34.6 |
| 30° | 22.6 | 26.3 | 29.7 | 26.0 | 23.0 |
| 32.5° | 15.8 | 17.3 | 18.8 | 17.3 | 15.8 |
| 35° | 11.7 | 12.4 | 13.2 | 12.4 | 11.3 |
| 37.5° | 9.0 | 9.8 | 10.2 | 9.4 | 8.7 |
| 40° | 7.5 | 7.9 | 8.3 | 7.9 | 7.5 |
| 42.5° | 6.4 | 6.8 | 6.8 | 6.8 | 6.4 |
| 45° | 5.6 | 5.6 | 6.0 | 5.6 | 5.6 |
| 47.5° | 4.9 | 4.9 | 5.3 | 4.9 | 4.9 |
| 50° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 52.5° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 55° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 57.5° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 60° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 62.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 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° | 1.1 | 1.1 | 1.1 | 1.1 | 1.5 |
| 77.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 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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