

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: P750712

Luminaire Tested: LD4D60D010-EU4DR3055659050-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D60D010-EU4DR3055659050-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5716.9 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')

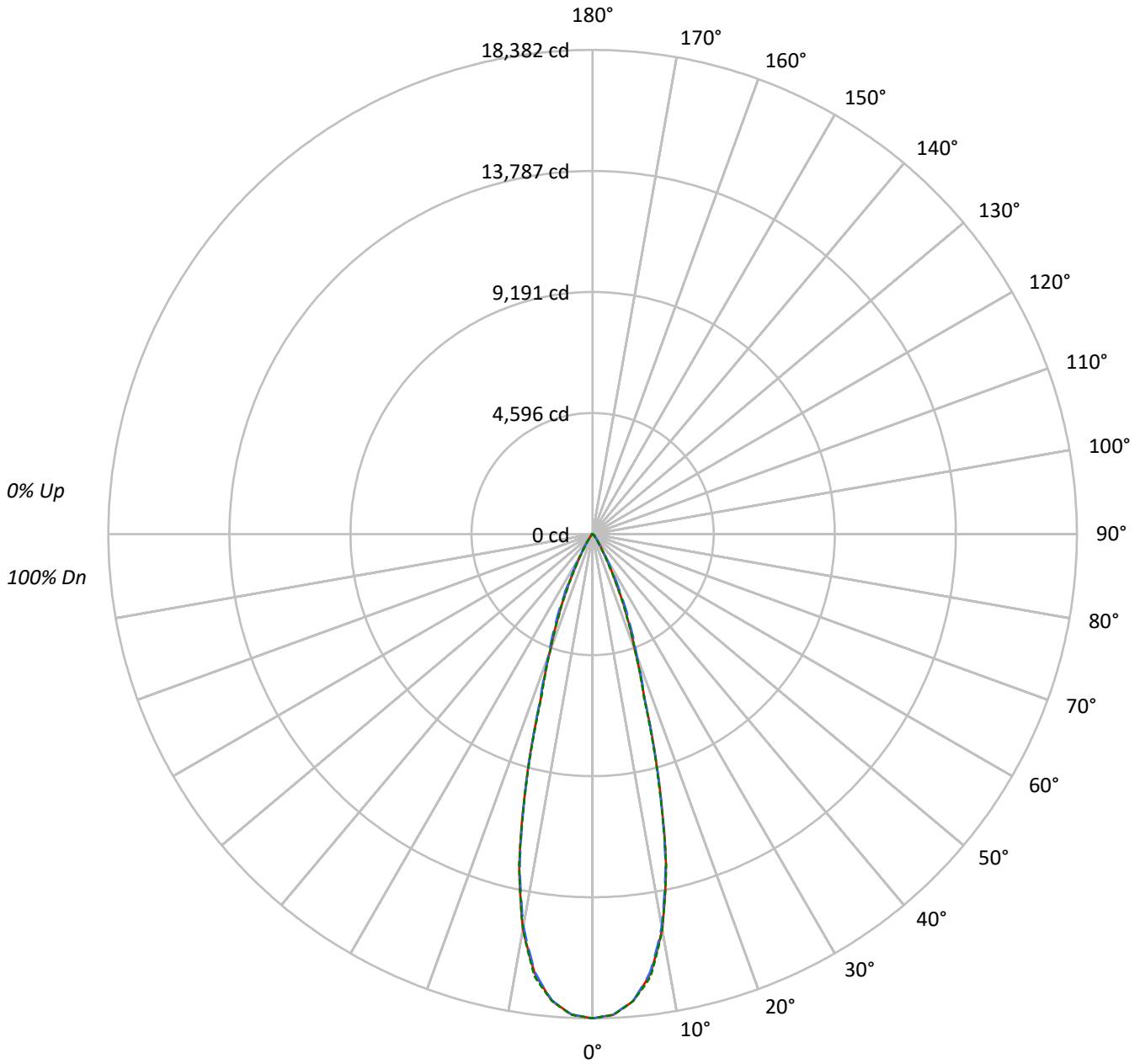
CIE Type: Direct

Input Watts (W): 64.4
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



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Luminous Intensity Polar Plot





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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 | | | | | | | | | | | | | | | | | | | |
| 1 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1407059 | 1407059 | 1407059 |
| 5° | 1366663 | 1365072 | 1366732 |
| 10° | 1183740 | 1175392 | 1183460 |
| 15° | 772331 | 768187 | 764320 |
| 20° | 384048 | 398457 | 383526 |
| 25° | 193456 | 218151 | 189495 |
| 30° | 77452 | 84399 | 67482 |
| 35° | 35929 | 34405 | 28846 |
| 40° | 15508 | 17226 | 14608 |
| 45° | 10944 | 13585 | 11041 |
| 50° | 3763 | 9884 | 3977 |
| 55° | 2162 | 4097 | 2282 |
| 60° | 1516 | 1791 | 1516 |
| 65° | 978 | 978 | 978 |
| 70° | 604 | 403 | 604 |
| 75° | 0 | 266 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13585 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1616.5 | 28.3 |
| 10°-20° | 2603.3 | 45.5 |
| 20°-30° | 1125.0 | 19.7 |
| 30°-40° | 256.4 | 4.5 |
| 40°-50° | 88.0 | 1.5 |
| 50°-60° | 21.5 | 0.4 |
| 60°-70° | 5.6 | 0.1 |
| 70°-80° | 0.6 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 5344.8 | 93.5 |
| 0°-40° | 5601.2 | 98.0 |
| 0°-60° | 5710.7 | 99.9 |
| 0°-90° | 5716.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5716.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 18382 | 18382 | 18382 | 18382 | 18382 | |
| 5° | 17787 | 17770 | 17766 | 17803 | 17788 | 1618 |
| 15° | 9746 | 9629 | 9694 | 9662 | 9645 | 2610 |
| 25° | 2291 | 2377 | 2583 | 2317 | 2244 | 1096 |
| 35° | 384 | 393 | 368 | 366 | 309 | 261 |
| 45° | 101 | 126 | 126 | 126 | 102 | 72 |
| 55° | 16 | 17 | 31 | 18 | 17 | 16 |
| 65° | 5 | 5 | 5 | 5 | 5 | 5 |
| 75° | 0 | 0 | 1 | 0 | 0 | 1 |
| 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° | 18382.5 | 18382.5 | 18382.5 | 18382.5 | 18382.5 |
| 2.5° | 18260.7 | 18248.0 | 18255.3 | 18264.3 | 18267.9 |
| 5° | 17786.8 | 17769.7 | 17766.1 | 17803.1 | 17787.7 |
| 7.5° | 16831.1 | 16806.7 | 16769.7 | 16853.6 | 16932.2 |
| 10° | 15230.0 | 15202.9 | 15122.6 | 15162.3 | 15226.4 |
| 12.5° | 12866.3 | 12778.8 | 12777.0 | 12903.3 | 12886.2 |
| 15° | 9746.3 | 9629.0 | 9694.0 | 9662.4 | 9645.2 |
| 17.5° | 6554.1 | 6509.0 | 6595.6 | 6569.4 | 6456.6 |
| 20° | 4714.8 | 4726.5 | 4891.7 | 4808.6 | 4708.4 |
| 22.5° | 3440.4 | 3482.8 | 3678.7 | 3464.8 | 3386.3 |
| 25° | 2290.6 | 2377.2 | 2583.0 | 2316.8 | 2243.7 |
| 27.5° | 1408.8 | 1448.5 | 1657.0 | 1390.8 | 1351.1 |
| 30° | 876.3 | 856.5 | 954.9 | 819.5 | 763.5 |
| 32.5° | 574.9 | 549.6 | 581.2 | 521.7 | 476.5 |
| 35° | 384.5 | 392.6 | 368.2 | 365.5 | 308.7 |
| 37.5° | 240.1 | 276.2 | 243.7 | 259.9 | 198.6 |
| 40° | 155.2 | 200.4 | 172.4 | 190.4 | 146.2 |
| 42.5° | 127.3 | 154.3 | 141.7 | 150.7 | 130.0 |
| 45° | 101.1 | 125.5 | 125.5 | 125.5 | 102.0 |
| 47.5° | 56.0 | 83.9 | 107.4 | 85.7 | 59.6 |
| 50° | 31.6 | 42.4 | 83.0 | 44.2 | 33.4 |
| 52.5° | 21.7 | 24.4 | 56.9 | 25.3 | 22.6 |
| 55° | 16.2 | 17.1 | 30.7 | 18.1 | 17.1 |
| 57.5° | 12.6 | 13.5 | 16.2 | 13.5 | 12.6 |
| 60° | 9.9 | 9.9 | 11.7 | 10.8 | 9.9 |
| 62.5° | 7.2 | 7.2 | 8.1 | 7.2 | 7.2 |
| 65° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 67.5° | 2.7 | 3.6 | 3.6 | 3.6 | 3.6 |
| 70° | 2.7 | 1.8 | 1.8 | 1.8 | 2.7 |
| 72.5° | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 |
| 75° | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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