

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: P745054

Luminaire Tested: LD4D25D010-EU4DR3020359027-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745054
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: LD4D25D010-EU4DR3020359027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1894.6 lumens
Efficiency: N/A
Efficacy: 75.5 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): 25.1
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



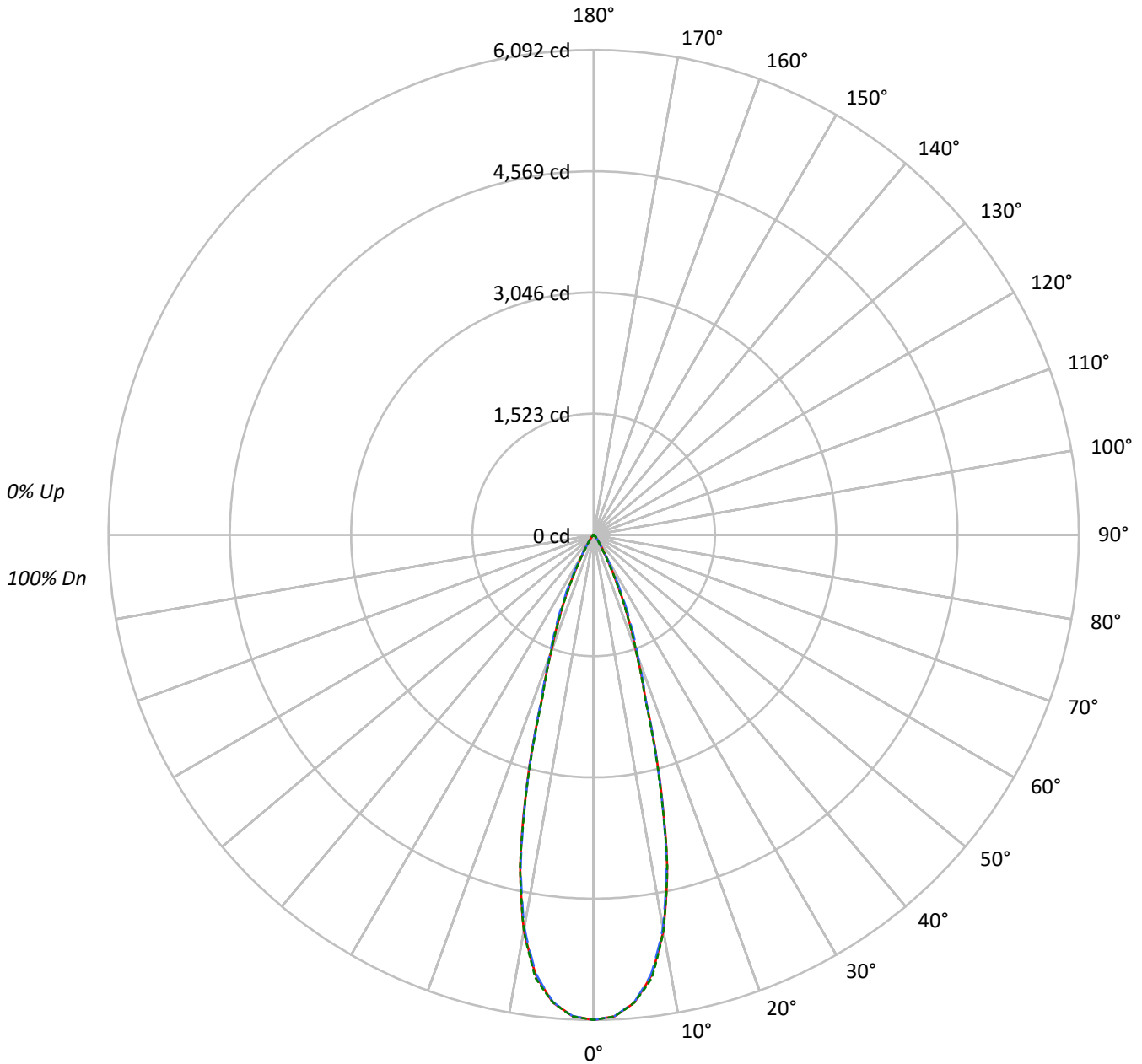
Downlight



TEST NUMBER: P745054

CATALOG NUMBER: LD4D25D010-EU4DR3020359027-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P745054

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 466310 | 466310 | 466310 |
| 5° | 452924 | 452394 | 452947 |
| 10° | 392305 | 389538 | 392204 |
| 15° | 255957 | 254578 | 253302 |
| 20° | 127275 | 132048 | 127104 |
| 25° | 64111 | 72295 | 62802 |
| 30° | 25667 | 27965 | 22361 |
| 35° | 11905 | 11400 | 9559 |
| 40° | 5146 | 5705 | 4846 |
| 45° | 3626 | 4503 | 3659 |
| 50° | 1250 | 3275 | 1322 |
| 55° | 721 | 1348 | 761 |
| 60° | 505 | 597 | 505 |
| 65° | 326 | 326 | 326 |
| 70° | 201 | 134 | 201 |
| 75° | 0 | 89 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4503 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 535.7 | 28.3 |
| 10°-20° | 862.8 | 45.5 |
| 20°-30° | 372.8 | 19.7 |
| 30°-40° | 85.0 | 4.5 |
| 40°-50° | 29.2 | 1.5 |
| 50°-60° | 7.1 | 0.4 |
| 60°-70° | 1.9 | 0.1 |
| 70°-80° | 0.2 | 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° | 1771.3 | 93.5 |
| 0°-40° | 1856.3 | 98.0 |
| 0°-60° | 1892.6 | 99.9 |
| 0°-90° | 1894.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1894.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6092 | 6092 | 6092 | 6092 | 6092 | |
| 5° | 5895 | 5889 | 5888 | 5900 | 5895 | 536 |
| 15° | 3230 | 3191 | 3213 | 3202 | 3196 | 865 |
| 25° | 759 | 788 | 856 | 768 | 744 | 363 |
| 35° | 127 | 130 | 122 | 121 | 102 | 86 |
| 45° | 34 | 42 | 42 | 42 | 34 | 24 |
| 55° | 5 | 6 | 10 | 6 | 6 | 5 |
| 65° | 2 | 2 | 2 | 2 | 2 | 2 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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° | 6092.1 | 6092.1 | 6092.1 | 6092.1 | 6092.1 |
| 2.5° | 6051.7 | 6047.6 | 6050.0 | 6052.9 | 6054.1 |
| 5° | 5894.7 | 5889.0 | 5887.8 | 5900.1 | 5895.0 |
| 7.5° | 5578.0 | 5569.9 | 5557.6 | 5585.4 | 5611.5 |
| 10° | 5047.4 | 5038.4 | 5011.8 | 5024.9 | 5046.1 |
| 12.5° | 4264.0 | 4235.0 | 4234.4 | 4276.3 | 4270.6 |
| 15° | 3230.0 | 3191.1 | 3212.6 | 3202.2 | 3196.5 |
| 17.5° | 2172.1 | 2157.1 | 2185.9 | 2177.2 | 2139.8 |
| 20° | 1562.5 | 1566.4 | 1621.1 | 1593.6 | 1560.4 |
| 22.5° | 1140.2 | 1154.2 | 1219.1 | 1148.3 | 1122.2 |
| 25° | 759.1 | 787.8 | 856.0 | 767.8 | 743.6 |
| 27.5° | 466.9 | 480.1 | 549.2 | 460.9 | 447.8 |
| 30° | 290.4 | 283.8 | 316.4 | 271.6 | 253.0 |
| 32.5° | 190.5 | 182.1 | 192.6 | 172.9 | 157.9 |
| 35° | 127.4 | 130.1 | 122.0 | 121.1 | 102.3 |
| 37.5° | 79.6 | 91.5 | 80.8 | 86.1 | 65.8 |
| 40° | 51.5 | 66.4 | 57.1 | 63.1 | 48.5 |
| 42.5° | 42.2 | 51.2 | 47.0 | 50.0 | 43.1 |
| 45° | 33.5 | 41.6 | 41.6 | 41.6 | 33.8 |
| 47.5° | 18.6 | 27.8 | 35.6 | 28.4 | 19.8 |
| 50° | 10.5 | 14.0 | 27.5 | 14.7 | 11.1 |
| 52.5° | 7.2 | 8.1 | 18.9 | 8.4 | 7.5 |
| 55° | 5.4 | 5.7 | 10.1 | 6.0 | 5.7 |
| 57.5° | 4.2 | 4.5 | 5.4 | 4.5 | 4.2 |
| 60° | 3.3 | 3.3 | 3.9 | 3.6 | 3.3 |
| 62.5° | 2.4 | 2.4 | 2.7 | 2.4 | 2.4 |
| 65° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 67.5° | 0.9 | 1.2 | 1.2 | 1.2 | 1.2 |
| 70° | 0.9 | 0.6 | 0.6 | 0.6 | 0.9 |
| 72.5° | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 |
| 75° | 0.0 | 0.0 | 0.3 | 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



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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