

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: P745058

Luminaire Tested: LD4D25D010-EU4DR3020359030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745058
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-EU4DR3020359030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1873.3 lumens
Efficiency: N/A
Efficacy: 74.6 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 (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



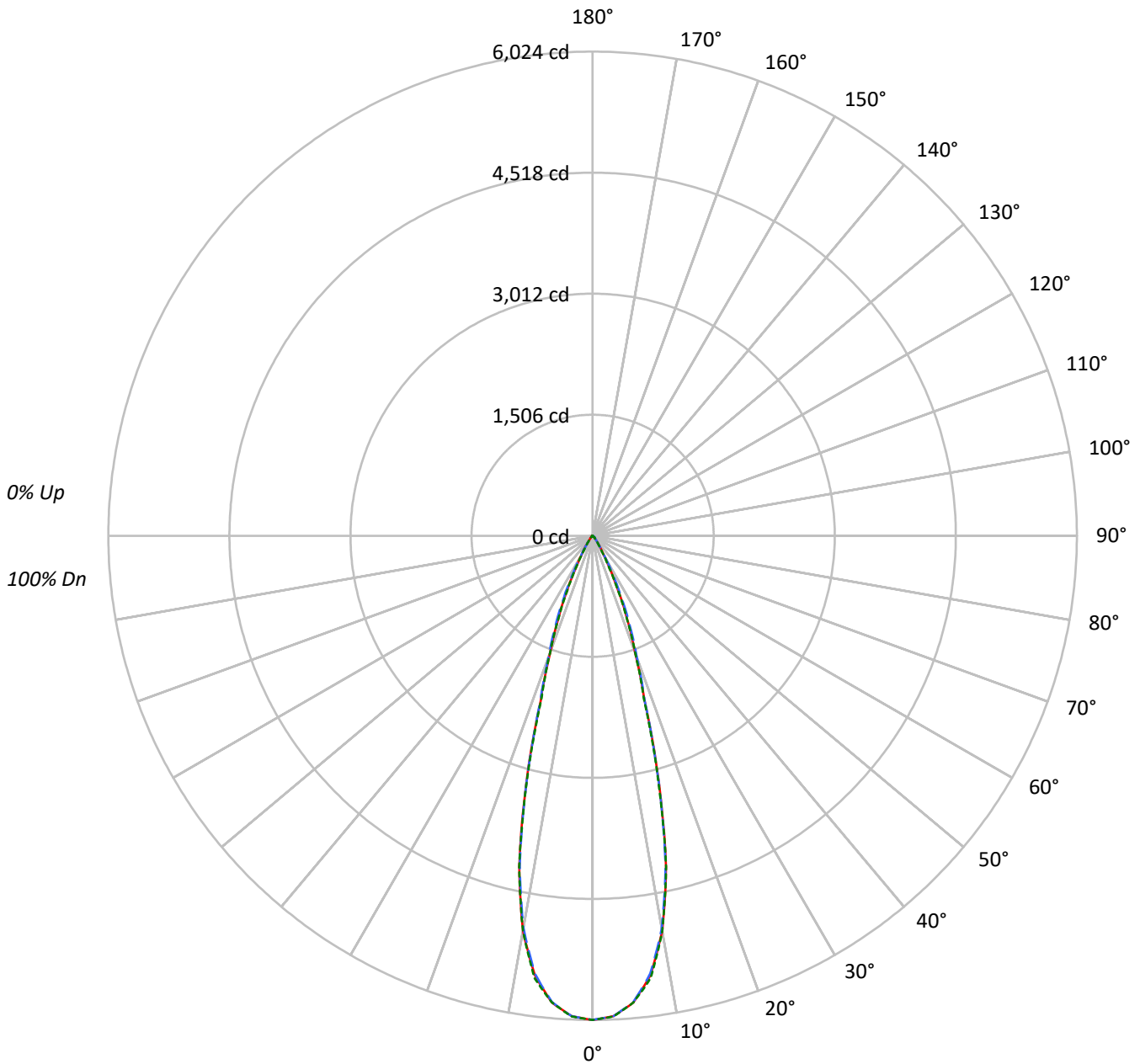
Downlight



TEST NUMBER: P745058

CATALOG NUMBER: LD4D25D010-EU4DR3020359030-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P745058

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | | | | | | |
| RC | 80 | | | | | 70 | | | | | 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° | 461074 | 461074 | 461074 |
| 5° | 447845 | 447323 | 447868 |
| 10° | 387898 | 385162 | 387805 |
| 15° | 253080 | 251725 | 250457 |
| 20° | 125849 | 130565 | 125678 |
| 25° | 63393 | 71484 | 62092 |
| 30° | 25384 | 27656 | 22114 |
| 35° | 11774 | 11278 | 9447 |
| 40° | 5086 | 5645 | 4786 |
| 45° | 3583 | 4449 | 3616 |
| 50° | 1238 | 3239 | 1298 |
| 55° | 707 | 1348 | 747 |
| 60° | 505 | 582 | 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: 4449 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 529.7 | 28.3 |
| 10°-20° | 853.1 | 45.5 |
| 20°-30° | 368.6 | 19.7 |
| 30°-40° | 84.0 | 4.5 |
| 40°-50° | 28.8 | 1.5 |
| 50°-60° | 7.0 | 0.4 |
| 60°-70° | 1.8 | 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° | 1751.4 | 93.5 |
| 0°-40° | 1835.4 | 98.0 |
| 0°-60° | 1871.3 | 99.9 |
| 0°-90° | 1873.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1873.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6024 | 6024 | 6024 | 6024 | 6024 | |
| 5° | 5829 | 5823 | 5822 | 5834 | 5829 | 530 |
| 15° | 3194 | 3155 | 3177 | 3166 | 3161 | 855 |
| 25° | 751 | 779 | 846 | 759 | 735 | 359 |
| 35° | 126 | 129 | 121 | 120 | 101 | 85 |
| 45° | 33 | 41 | 41 | 41 | 33 | 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° | 6023.7 | 6023.7 | 6023.7 | 6023.7 | 6023.7 |
| 2.5° | 5983.8 | 5979.7 | 5982.1 | 5985.0 | 5986.2 |
| 5° | 5828.6 | 5823.0 | 5821.8 | 5833.9 | 5828.9 |
| 7.5° | 5515.3 | 5507.4 | 5495.2 | 5522.7 | 5548.5 |
| 10° | 4990.7 | 4981.8 | 4955.5 | 4968.5 | 4989.5 |
| 12.5° | 4216.2 | 4187.5 | 4186.9 | 4228.3 | 4222.6 |
| 15° | 3193.7 | 3155.3 | 3176.6 | 3166.2 | 3160.6 |
| 17.5° | 2147.7 | 2132.9 | 2161.3 | 2152.7 | 2115.7 |
| 20° | 1545.0 | 1548.8 | 1602.9 | 1575.7 | 1542.9 |
| 22.5° | 1127.4 | 1141.3 | 1205.4 | 1135.4 | 1109.6 |
| 25° | 750.6 | 779.0 | 846.4 | 759.2 | 735.2 |
| 27.5° | 461.7 | 474.7 | 543.0 | 455.7 | 442.7 |
| 30° | 287.2 | 280.7 | 312.9 | 268.5 | 250.2 |
| 32.5° | 188.4 | 180.1 | 190.4 | 171.0 | 156.1 |
| 35° | 126.0 | 128.6 | 120.7 | 119.8 | 101.1 |
| 37.5° | 78.7 | 90.5 | 79.9 | 85.2 | 65.1 |
| 40° | 50.9 | 65.7 | 56.5 | 62.4 | 47.9 |
| 42.5° | 41.7 | 50.6 | 46.4 | 49.4 | 42.6 |
| 45° | 33.1 | 41.1 | 41.1 | 41.1 | 33.4 |
| 47.5° | 18.3 | 27.5 | 35.2 | 28.1 | 19.5 |
| 50° | 10.4 | 13.9 | 27.2 | 14.5 | 10.9 |
| 52.5° | 7.1 | 8.0 | 18.6 | 8.3 | 7.4 |
| 55° | 5.3 | 5.6 | 10.1 | 5.9 | 5.6 |
| 57.5° | 4.1 | 4.4 | 5.3 | 4.4 | 4.1 |
| 60° | 3.3 | 3.3 | 3.8 | 3.6 | 3.3 |
| 62.5° | 2.3 | 2.3 | 2.6 | 2.3 | 2.3 |
| 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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