

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: P743979

Luminaire Tested: LD4D20D010-EU4DR2015309035-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR2015309035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1768.3 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



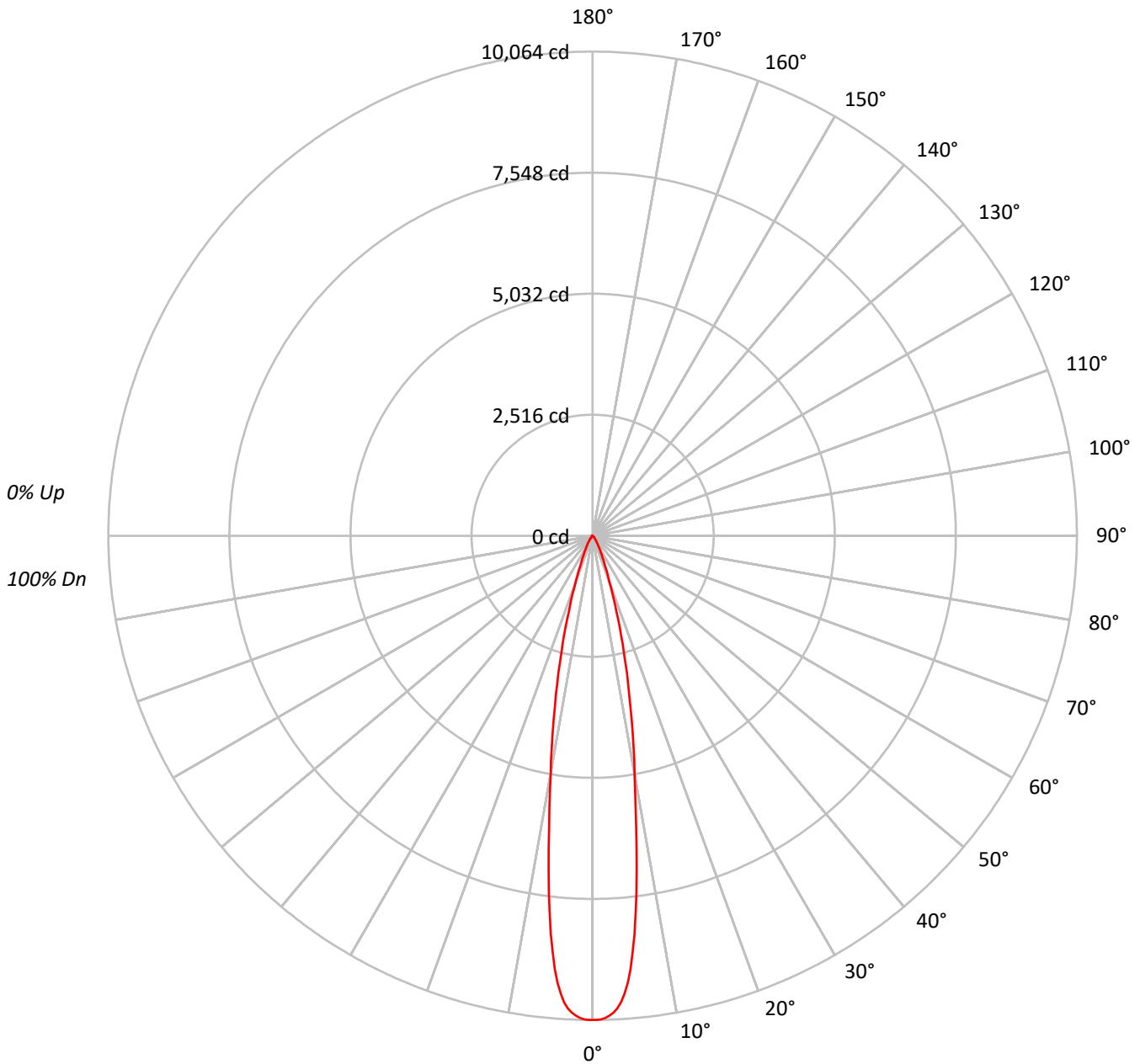
Downlight



TEST NUMBER: P743979

CATALOG NUMBER: LD4D20D010-EU4DR2015309035-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P743979

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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 | 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 | 113 | 111 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 97 | 97 | 97 | | | | | | | | | | | | | | | | |
| 2 | 111 | 108 | 105 | 102 | 109 | 106 | 104 | 101 | 103 | 101 | 99 | 100 | 99 | 97 | 98 | 96 | 95 | 94 | 94 | 94 | 94 | | | | | | | | | | | | | | | | |
| 3 | 108 | 103 | 100 | 97 | 106 | 102 | 99 | 96 | 100 | 97 | 95 | 97 | 95 | 93 | 95 | 93 | 92 | 91 | 91 | 91 | 91 | | | | | | | | | | | | | | | | |
| 4 | 105 | 99 | 96 | 93 | 103 | 98 | 95 | 92 | 96 | 93 | 91 | 95 | 92 | 90 | 93 | 91 | 89 | 88 | 88 | 88 | 88 | | | | | | | | | | | | | | | | |
| 5 | 102 | 96 | 92 | 89 | 100 | 95 | 91 | 89 | 94 | 90 | 88 | 92 | 89 | 87 | 91 | 88 | 86 | 85 | 85 | 85 | 85 | | | | | | | | | | | | | | | | |
| 6 | 99 | 93 | 89 | 86 | 98 | 92 | 88 | 86 | 91 | 87 | 85 | 90 | 87 | 84 | 88 | 86 | 84 | 83 | 83 | 83 | 83 | | | | | | | | | | | | | | | | |
| 7 | 96 | 90 | 86 | 83 | 95 | 89 | 86 | 83 | 88 | 85 | 82 | 87 | 84 | 82 | 86 | 84 | 82 | 81 | 81 | 81 | 81 | | | | | | | | | | | | | | | | |
| 8 | 94 | 87 | 83 | 81 | 93 | 87 | 83 | 80 | 86 | 83 | 80 | 85 | 82 | 80 | 84 | 82 | 80 | 79 | 79 | 79 | 79 | | | | | | | | | | | | | | | | |
| 9 | 91 | 85 | 81 | 78 | 91 | 85 | 81 | 78 | 84 | 80 | 78 | 83 | 80 | 78 | 82 | 80 | 78 | 77 | 77 | 77 | 77 | | | | | | | | | | | | | | | | |
| 10 | 89 | 83 | 79 | 76 | 88 | 82 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 76 | 81 | 78 | 76 | 75 | 75 | 75 | 75 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1099655 |
| 5° | 992093 |
| 10° | 556817 |
| 15° | 283036 |
| 20° | 119831 |
| 25° | 55323 |
| 30° | 29283 |
| 35° | 15779 |
| 40° | 8429 |
| 45° | 4991 |
| 50° | 2890 |
| 55° | 1543 |
| 60° | 983 |
| 65° | 698 |
| 70° | 288 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4991 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 716.6 | 40.5 |
| 10°-20° | 705.6 | 39.9 |
| 20°-30° | 230.5 | 13.0 |
| 30°-40° | 78.5 | 4.4 |
| 40°-50° | 26.4 | 1.5 |
| 50°-60° | 8.0 | 0.5 |
| 60°-70° | 2.7 | 0.2 |
| 70°-80° | 0.1 | 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° | 1652.7 | 93.5 |
| 0°-40° | 1731.2 | 97.9 |
| 0°-60° | 1765.5 | 99.8 |
| 0°-90° | 1768.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1768.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 10064 | |
| 5° | 9046 | 717 |
| 15° | 2502 | 706 |
| 25° | 459 | 231 |
| 35° | 118 | 78 |
| 45° | 32 | 26 |
| 55° | 8 | 8 |
| 65° | 3 | 3 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|---------|
| 0° | 10064.5 |
| 0.5° | 10064.5 |
| 1° | 10051.9 |
| 1.5° | 10026.8 |
| 2° | 9981.1 |
| 2.5° | 9920.2 |
| 3° | 9834.1 |
| 3.5° | 9714.0 |
| 4° | 9535.7 |
| 4.5° | 9318.8 |
| 5° | 9045.5 |
| 5.5° | 8686.1 |
| 6° | 8317.7 |
| 6.5° | 7895.6 |
| 7° | 7482.5 |
| 7.5° | 6998.5 |
| 8° | 6566.5 |
| 8.5° | 6131.9 |
| 9° | 5730.4 |
| 9.5° | 5362.0 |
| 10° | 5018.8 |
| 12.5° | 3603.7 |
| 15° | 2502.2 |
| 17.5° | 1634.7 |
| 20° | 1030.6 |
| 22.5° | 667.7 |
| 25° | 458.9 |
| 27.5° | 322.6 |
| 30° | 232.1 |
| 32.5° | 166.7 |
| 35° | 118.3 |
| 37.5° | 82.5 |
| 40° | 59.1 |
| 42.5° | 43.0 |
| 45° | 32.3 |
| 47.5° | 25.1 |
| 50° | 17.0 |
| 52.5° | 10.8 |
| 55° | 8.1 |
| 57.5° | 6.3 |
| 60° | 4.5 |
| 62.5° | 3.6 |
| 65° | 2.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 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



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Scaled Data Report



— 0°-180°

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| | | |
|-------|--|-----|
| 67.5° | | 1.8 |
| 70° | | 0.9 |

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Scaled Data Report



(END OF REPORT)