

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: P748932

Luminaire Tested: LD4D45BD010-EU4DR7040509024-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR7040509024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2073.8 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

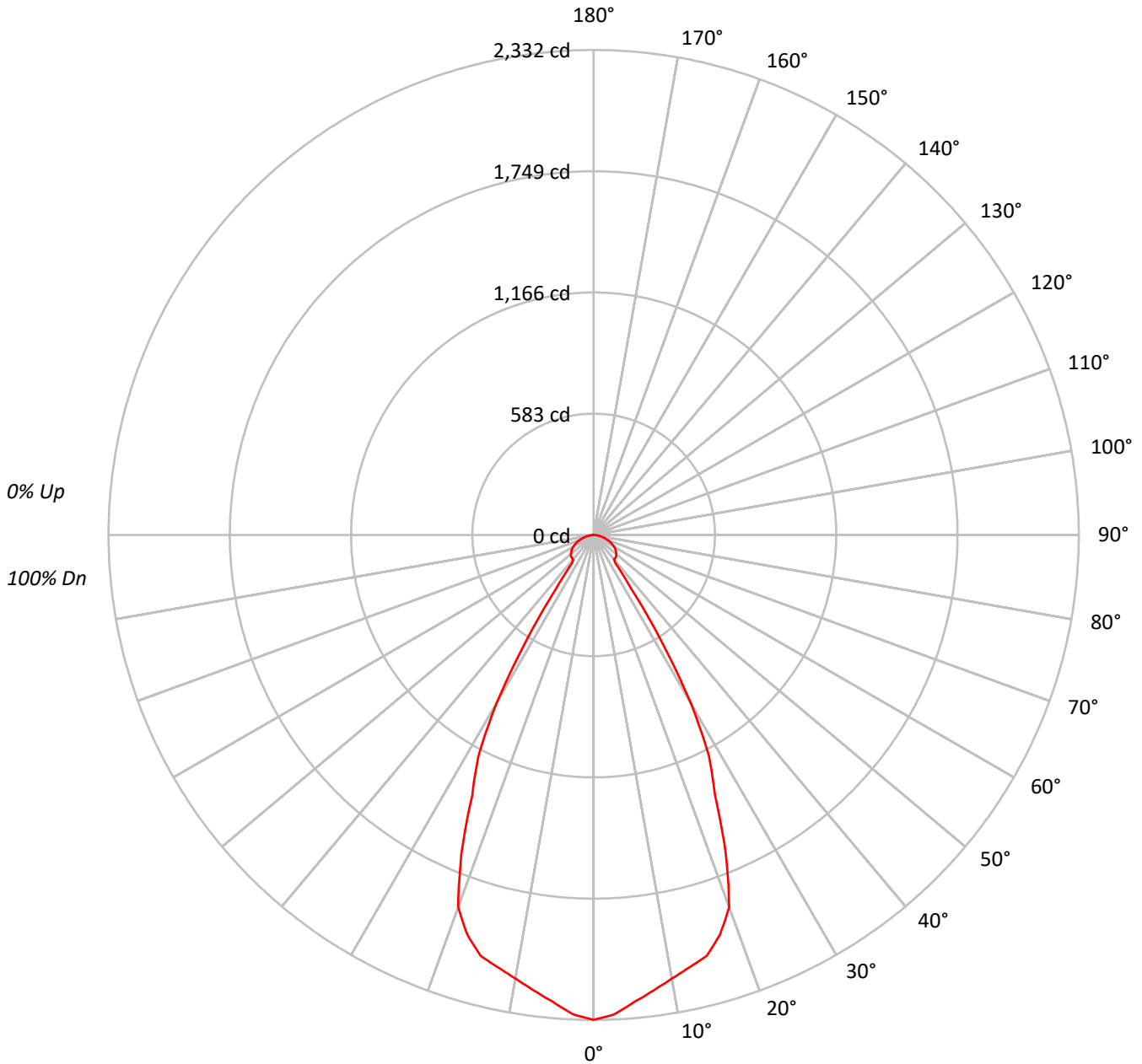
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | | | | | | | |
| 1 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 95 | 94 | 93 | 91 | | | | | | | | | | | | | | | | | | | |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | | |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 78 | 76 | | | | | | | | | | | | | | | | | | | |
| 4 | 94 | 86 | 80 | 75 | 92 | 85 | 79 | 74 | 82 | 77 | 73 | 80 | 76 | 73 | 78 | 75 | 72 | 70 | | | | | | | | | | | | | | | | | | | |
| 5 | 89 | 80 | 74 | 69 | 87 | 79 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 65 | | | | | | | | | | | | | | | | | | | |
| 6 | 85 | 75 | 68 | 64 | 83 | 74 | 68 | 64 | 73 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 62 | 61 | | | | | | | | | | | | | | | | | | | |
| 7 | 80 | 70 | 64 | 59 | 79 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 58 | 57 | | | | | | | | | | | | | | | | | | | |
| 8 | 77 | 66 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 53 | | | | | | | | | | | | | | | | | | | |
| 9 | 73 | 63 | 57 | 52 | 72 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 60 | 55 | 52 | 50 | | | | | | | | | | | | | | | | | | | |
| 10 | 70 | 59 | 53 | 49 | 69 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 57 | 52 | 49 | 48 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° |
|-----|--------|
| 0° | 254741 |
| 5° | 247171 |
| 10° | 240287 |
| 15° | 237134 |
| 20° | 221430 |
| 25° | 166355 |
| 30° | 117597 |
| 35° | 41655 |
| 40° | 21908 |
| 45° | 23332 |
| 50° | 24154 |
| 55° | 24611 |
| 60° | 24758 |
| 65° | 24250 |
| 70° | 22873 |
| 75° | 21192 |
| 80° | 18813 |
| 85° | 15294 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 24768 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 212.6 | 10.3 |
| 10°-20° | 583.1 | 28.1 |
| 20°-30° | 642.2 | 31.0 |
| 30°-40° | 245.4 | 11.8 |
| 40°-50° | 115.9 | 5.6 |
| 50°-60° | 115.2 | 5.6 |
| 60°-70° | 92.2 | 4.4 |
| 70°-80° | 53.0 | 2.6 |
| 80°-90° | 14.4 | 0.7 |
| 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° | 1437.8 | 69.3 |
| 0°-40° | 1683.1 | 81.2 |
| 0°-60° | 1914.2 | 92.3 |
| 0°-90° | 2073.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2073.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2332 | |
| 5° | 2254 | 213 |
| 15° | 2096 | 583 |
| 25° | 1380 | 642 |
| 35° | 312 | 245 |
| 45° | 151 | 116 |
| 55° | 129 | 115 |
| 65° | 94 | 92 |
| 75° | 50 | 53 |
| 85° | 12 | 14 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2331.5 |
| 2.5° | 2307.2 |
| 5° | 2253.6 |
| 7.5° | 2209.0 |
| 10° | 2165.8 |
| 12.5° | 2129.2 |
| 15° | 2096.4 |
| 17.5° | 2017.0 |
| 20° | 1904.4 |
| 22.5° | 1661.5 |
| 25° | 1379.9 |
| 27.5° | 1201.2 |
| 30° | 932.1 |
| 32.5° | 602.1 |
| 35° | 312.3 |
| 37.5° | 168.7 |
| 40° | 153.6 |
| 42.5° | 152.5 |
| 45° | 151.0 |
| 47.5° | 147.7 |
| 50° | 142.1 |
| 52.5° | 135.8 |
| 55° | 129.2 |
| 57.5° | 121.8 |
| 60° | 113.3 |
| 62.5° | 103.7 |
| 65° | 93.8 |
| 67.5° | 82.7 |
| 70° | 71.6 |
| 72.5° | 60.5 |
| 75° | 50.2 |
| 77.5° | 39.5 |
| 80° | 29.9 |
| 82.5° | 21.0 |
| 85° | 12.2 |
| 87.5° | 4.8 |
| 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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— 0°-180°

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Scaled Data Report



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