

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: P748844

Luminaire Tested: LD4D45BD010-EU4DR6040509050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR6040509050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3986.9 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

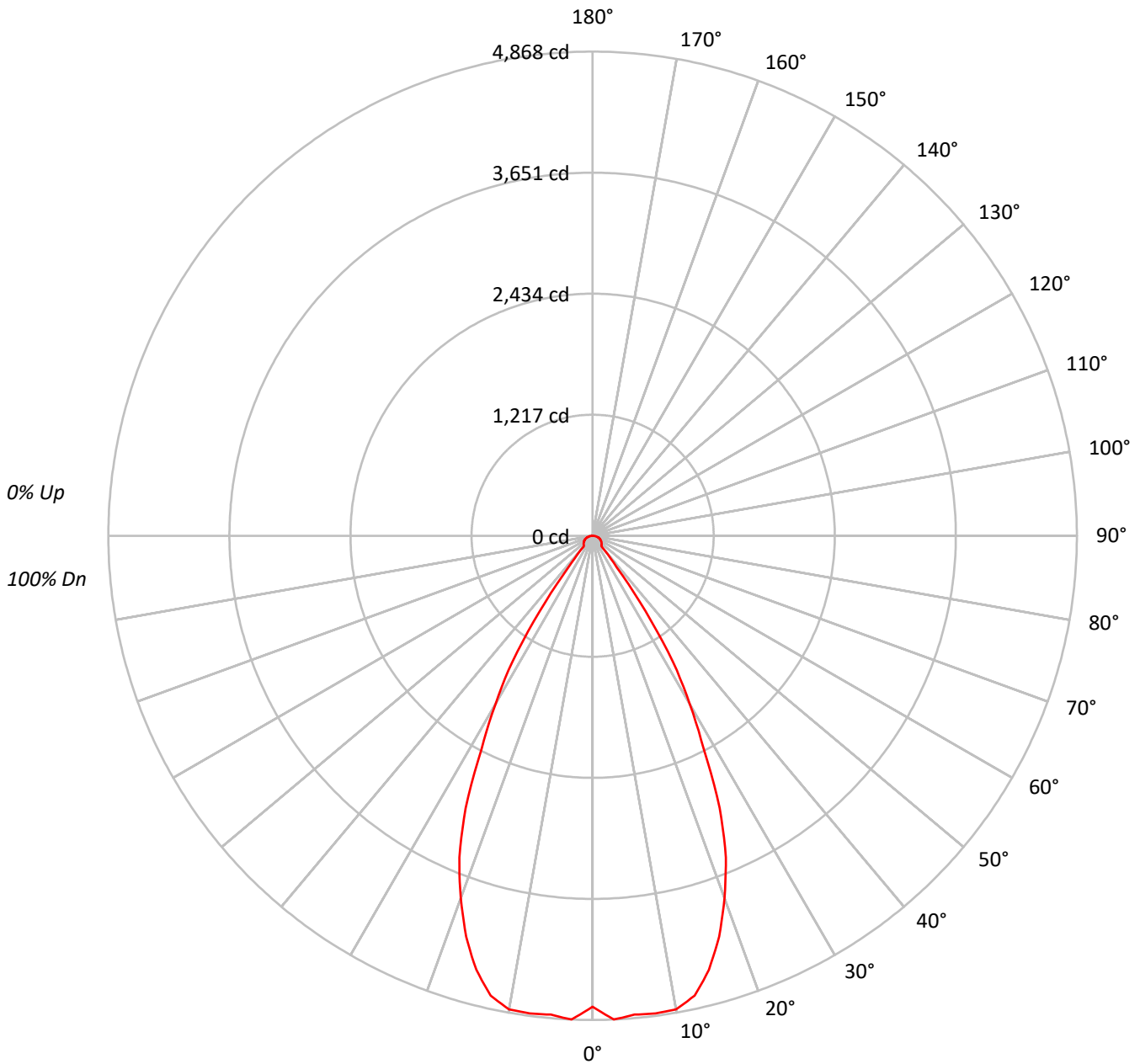
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P748844
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Luminous Intensity Polar Plot





TEST NUMBER: P748844

CATALOG NUMBER: LD4D45BD010-EU4DR6040509050-4LBDP1MW

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 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 96 | 95 | 93 | | | 93 | | | | | | | | | | | | | | | | |
| 2 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 92 | 90 | 88 | 86 | | | 86 | | | | | | | | | | | | | | | | |
| 3 | 102 | 96 | 90 | 86 | 100 | 94 | 89 | 86 | 91 | 88 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 80 | | | 80 | | | | | | | | | | | | | | | | |
| 4 | 97 | 89 | 84 | 80 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 | | | 75 | | | | | | | | | | | | | | | | |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 78 | 74 | 81 | 77 | 73 | 80 | 76 | 72 | 78 | 75 | 72 | 70 | | | 70 | | | | | | | | | | | | | | | | |
| 6 | 88 | 79 | 73 | 69 | 87 | 78 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 66 | | | 66 | | | | | | | | | | | | | | | | |
| 7 | 84 | 75 | 69 | 65 | 83 | 74 | 68 | 64 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 63 | 62 | | | 62 | | | | | | | | | | | | | | | | |
| 8 | 80 | 71 | 65 | 61 | 79 | 70 | 65 | 61 | 69 | 64 | 60 | 68 | 64 | 60 | 67 | 63 | 60 | 59 | | | 59 | | | | | | | | | | | | | | | | |
| 9 | 77 | 67 | 61 | 57 | 75 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 55 | | | 55 | | | | | | | | | | | | | | | | |
| 10 | 73 | 64 | 58 | 54 | 72 | 63 | 58 | 54 | 62 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 53 | | | 53 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° |
|-----|--------|
| 0° | 517350 |
| 5° | 530063 |
| 10° | 536470 |
| 15° | 511065 |
| 20° | 450592 |
| 25° | 364453 |
| 30° | 246523 |
| 35° | 123539 |
| 40° | 20039 |
| 45° | 19608 |
| 50° | 20007 |
| 55° | 20306 |
| 60° | 20869 |
| 65° | 21355 |
| 70° | 21851 |
| 75° | 22121 |
| 80° | 21330 |
| 85° | 17801 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 22121 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 461.9 | 11.6 |
| 10°-20° | 1249.7 | 31.3 |
| 20°-30° | 1344.6 | 33.7 |
| 30°-40° | 584.5 | 14.7 |
| 40°-50° | 98.2 | 2.5 |
| 50°-60° | 95.5 | 2.4 |
| 60°-70° | 81.7 | 2.0 |
| 70°-80° | 54.6 | 1.4 |
| 80°-90° | 16.3 | 0.4 |
| 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° | 3056.2 | 76.7 |
| 0°-40° | 3640.7 | 91.3 |
| 0°-60° | 3834.3 | 96.2 |
| 0°-90° | 3986.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3986.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4735 | |
| 5° | 4833 | 462 |
| 15° | 4518 | 1250 |
| 25° | 3023 | 1345 |
| 35° | 926 | 584 |
| 45° | 127 | 98 |
| 55° | 107 | 95 |
| 65° | 83 | 82 |
| 75° | 52 | 55 |
| 85° | 14 | 16 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 4735.0 |
| 2.5° | 4868.1 |
| 5° | 4832.9 |
| 7.5° | 4844.0 |
| 10° | 4835.4 |
| 12.5° | 4735.6 |
| 15° | 4518.1 |
| 17.5° | 4226.0 |
| 20° | 3875.3 |
| 22.5° | 3500.1 |
| 25° | 3023.1 |
| 27.5° | 2418.0 |
| 30° | 1954.0 |
| 32.5° | 1506.0 |
| 35° | 926.2 |
| 37.5° | 396.2 |
| 40° | 140.5 |
| 42.5° | 129.4 |
| 45° | 126.9 |
| 47.5° | 122.6 |
| 50° | 117.7 |
| 52.5° | 112.2 |
| 55° | 106.6 |
| 57.5° | 101.1 |
| 60° | 95.5 |
| 62.5° | 89.4 |
| 65° | 82.6 |
| 67.5° | 75.8 |
| 70° | 68.4 |
| 72.5° | 60.4 |
| 75° | 52.4 |
| 77.5° | 43.1 |
| 80° | 33.9 |
| 82.5° | 24.0 |
| 85° | 14.2 |
| 87.5° | 4.9 |
| 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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