

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: P753918

Luminaire Tested: LD4D80BD010-EU4DR3570959050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR3570959050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7749.1 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
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

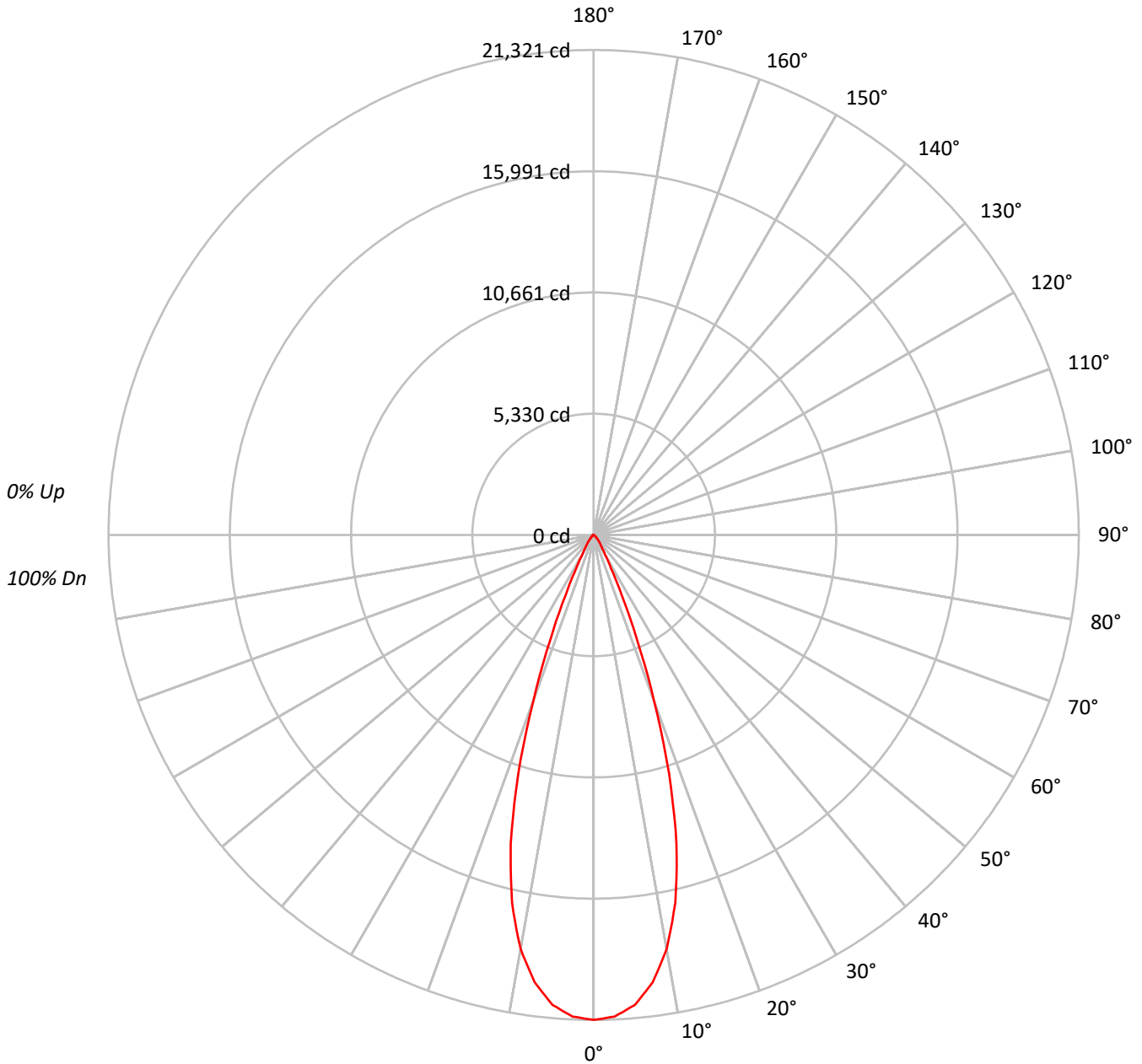


Downlight

TEST NUMBER: P753918

CATALOG NUMBER: LD4D80BD010-EU4DR3570959050-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P753918

CATALOG NUMBER: LD4D80BD010-EU4DR3570959050-4LBS1MW

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 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 103 | 101 | 100 | 99 | 98 | 98 | 96 | | | | 96 | | | | | | | | | | | | | | | |
| 2 | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 99 | 102 | 99 | 97 | 99 | 97 | 95 | 96 | 95 | 93 | 92 | | | | 92 | | | | | | | | | | | | | | | |
| 3 | 106 | 101 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 95 | 92 | 95 | 93 | 91 | 93 | 91 | 89 | 88 | | | | 88 | | | | | | | | | | | | | | | |
| 4 | 103 | 97 | 92 | 89 | 101 | 96 | 92 | 89 | 94 | 90 | 88 | 92 | 89 | 87 | 90 | 88 | 86 | 84 | | | | 84 | | | | | | | | | | | | | | | |
| 5 | 99 | 93 | 88 | 85 | 98 | 92 | 87 | 84 | 90 | 86 | 84 | 89 | 85 | 83 | 87 | 84 | 82 | 81 | | | | 81 | | | | | | | | | | | | | | | |
| 6 | 96 | 89 | 84 | 81 | 94 | 88 | 84 | 81 | 87 | 83 | 80 | 85 | 82 | 80 | 84 | 81 | 79 | 78 | | | | 78 | | | | | | | | | | | | | | | |
| 7 | 93 | 85 | 81 | 78 | 91 | 85 | 80 | 77 | 84 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 76 | 75 | | | | 75 | | | | | | | | | | | | | | | |
| 8 | 90 | 82 | 78 | 74 | 88 | 82 | 77 | 74 | 81 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 73 | 72 | | | | 72 | | | | | | | | | | | | | | | |
| 9 | 87 | 79 | 75 | 72 | 86 | 79 | 75 | 72 | 78 | 74 | 71 | 77 | 74 | 71 | 77 | 73 | 71 | 70 | | | | 70 | | | | | | | | | | | | | | | |
| 10 | 84 | 77 | 72 | 69 | 83 | 76 | 72 | 69 | 76 | 72 | 69 | 75 | 71 | 69 | 74 | 71 | 69 | 68 | | | | 68 | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 2329592 |
| 5° | 2274856 |
| 10° | 2050254 |
| 15° | 1591325 |
| 20° | 902580 |
| 25° | 351143 |
| 30° | 130996 |
| 35° | 71813 |
| 40° | 46939 |
| 45° | 28570 |
| 50° | 18188 |
| 55° | 12839 |
| 60° | 9396 |
| 65° | 5119 |
| 70° | 383 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28570 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1907.6 | 24.6 |
| 10°-20° | 3724.4 | 48.1 |
| 20°-30° | 1519.0 | 19.6 |
| 30°-40° | 363.5 | 4.7 |
| 40°-50° | 151.5 | 2.0 |
| 50°-60° | 62.7 | 0.8 |
| 60°-70° | 19.6 | 0.3 |
| 70°-80° | 0.5 | 0.0 |
| 80°-90° | 0.3 | 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° | 7151.0 | 92.3 |
| 0°-40° | 7514.5 | 97.0 |
| 0°-60° | 7728.7 | 99.7 |
| 0°-90° | 7749.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7749.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 21321 | |
| 5° | 20741 | ### |
| 15° | 14068 | 3724 |
| 25° | 2913 | 1519 |
| 35° | 538 | 364 |
| 45° | 185 | 152 |
| 55° | 67 | 63 |
| 65° | 20 | 20 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|---------|
| 0° | 21321.4 |
| 2.5° | 21193.5 |
| 5° | 20741.2 |
| 7.5° | 19838.9 |
| 10° | 18479.7 |
| 12.5° | 16565.8 |
| 15° | 14068.2 |
| 17.5° | 11013.6 |
| 20° | 7762.6 |
| 22.5° | 4949.8 |
| 25° | 2912.7 |
| 27.5° | 1646.5 |
| 30° | 1038.3 |
| 32.5° | 729.0 |
| 35° | 538.4 |
| 37.5° | 416.3 |
| 40° | 329.1 |
| 42.5° | 253.5 |
| 45° | 184.9 |
| 47.5° | 138.4 |
| 50° | 107.0 |
| 52.5° | 84.9 |
| 55° | 67.4 |
| 57.5° | 54.6 |
| 60° | 43.0 |
| 62.5° | 31.4 |
| 65° | 19.8 |
| 67.5° | 7.0 |
| 70° | 1.2 |
| 72.5° | 1.2 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 1.2 |
| 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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— 0°-180°

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Scaled Data Report



(END OF REPORT)