

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: P755109

Luminaire Tested: LD4D85BD010-EU4DR6570959027-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR6570959027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7235.6 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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

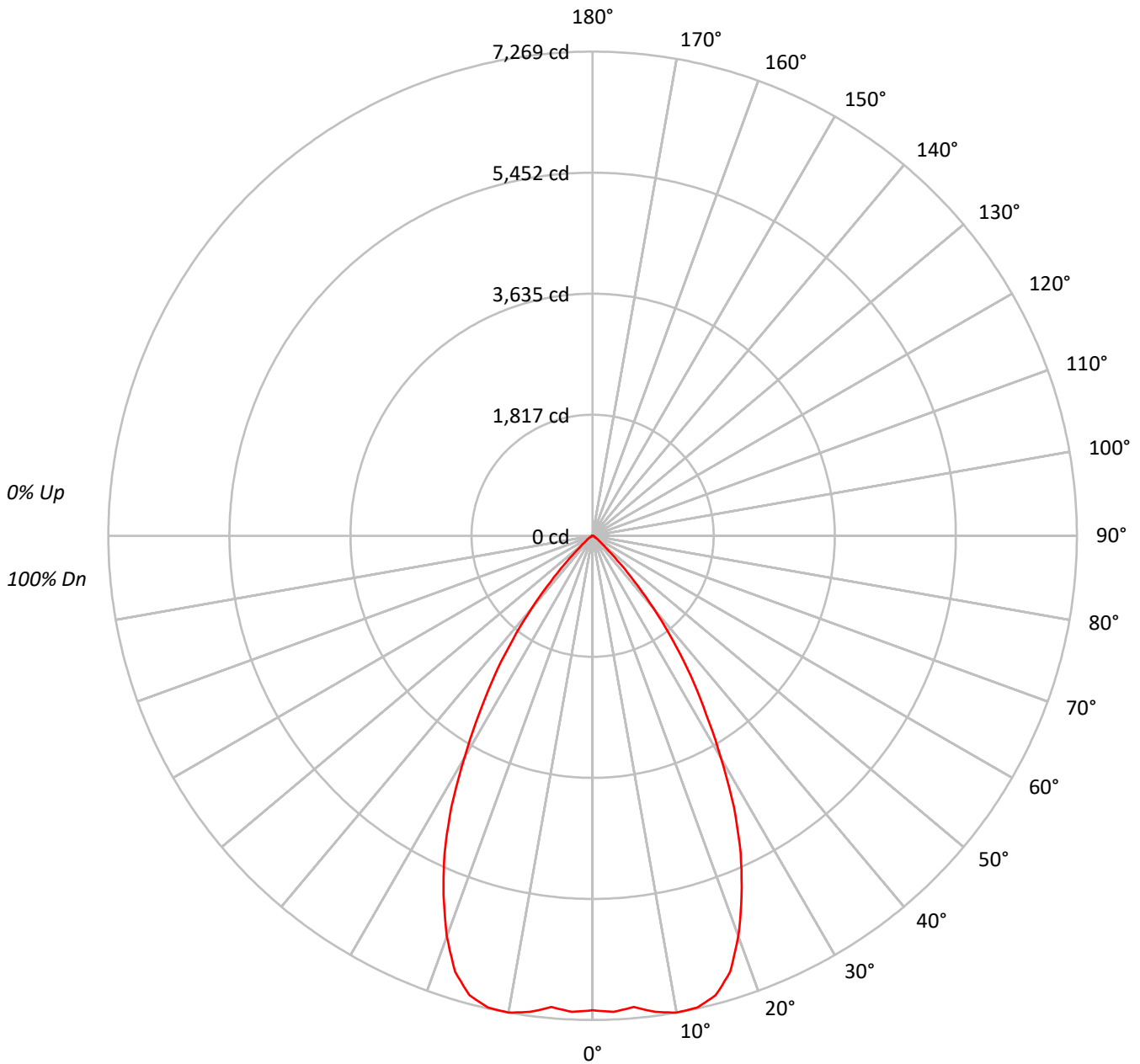


Downlight

TEST NUMBER: P755109

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|
| RF | 20 | | | | 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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | |
| 1 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 | | | |
| 2 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 87 | | | |
| 3 | 102 | 96 | 91 | 87 | 100 | 94 | 90 | 86 | 92 | 88 | 85 | 89 | 86 | 83 | 87 | 84 | 82 | 80 | | | |
| 4 | 97 | 89 | 84 | 79 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 | | | |
| 5 | 92 | 83 | 78 | 73 | 90 | 83 | 77 | 73 | 81 | 76 | 72 | 79 | 75 | 72 | 77 | 74 | 71 | 69 | | | |
| 6 | 87 | 78 | 72 | 68 | 86 | 77 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 67 | 73 | 69 | 66 | 65 | | | |
| 7 | 83 | 73 | 67 | 63 | 81 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 66 | 62 | 69 | 65 | 62 | 60 | | | |
| 8 | 79 | 69 | 63 | 59 | 77 | 68 | 63 | 59 | 67 | 62 | 58 | 66 | 62 | 58 | 65 | 61 | 58 | 57 | | | |
| 9 | 75 | 65 | 59 | 55 | 74 | 65 | 59 | 55 | 64 | 58 | 55 | 63 | 58 | 55 | 62 | 58 | 54 | 53 | | | |
| 10 | 71 | 61 | 56 | 52 | 70 | 61 | 55 | 52 | 60 | 55 | 51 | 59 | 55 | 51 | 59 | 54 | 51 | 50 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 778374 |
| 5° | 779011 |
| 10° | 806435 |
| 15° | 807777 |
| 20° | 743693 |
| 25° | 633666 |
| 30° | 485086 |
| 35° | 342714 |
| 40° | 202292 |
| 45° | 82126 |
| 50° | 29763 |
| 55° | 16592 |
| 60° | 9506 |
| 65° | 5222 |
| 70° | 5495 |
| 75° | 4264 |
| 80° | 4467 |
| 85° | 3761 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 82126 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 686.0 | 9.5 |
| 10°-20° | 1978.7 | 27.3 |
| 20°-30° | 2374.1 | 32.8 |
| 30°-40° | 1595.5 | 22.1 |
| 40°-50° | 477.6 | 6.6 |
| 50°-60° | 84.3 | 1.2 |
| 60°-70° | 23.9 | 0.3 |
| 70°-80° | 11.7 | 0.2 |
| 80°-90° | 3.7 | 0.1 |
| 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° | 5038.8 | 69.6 |
| 0°-40° | 6634.3 | 91.7 |
| 0°-60° | 7196.2 | 99.5 |
| 0°-90° | 7235.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7235.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 7124 | |
| 5° | 7103 | 686 |
| 15° | 7141 | 1979 |
| 25° | 5256 | 2374 |
| 35° | 2569 | 1595 |
| 45° | 532 | 478 |
| 55° | 87 | 84 |
| 65° | 20 | 24 |
| 75° | 10 | 12 |
| 85° | 3 | 4 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 7124.0 |
| 2.5° | 7154.3 |
| 5° | 7102.7 |
| 7.5° | 7210.0 |
| 10° | 7268.7 |
| 12.5° | 7254.5 |
| 15° | 7141.2 |
| 17.5° | 6863.8 |
| 20° | 6396.1 |
| 22.5° | 5845.3 |
| 25° | 5256.2 |
| 27.5° | 4591.0 |
| 30° | 3844.9 |
| 32.5° | 3168.7 |
| 35° | 2569.4 |
| 37.5° | 1977.1 |
| 40° | 1418.3 |
| 42.5° | 926.3 |
| 45° | 531.5 |
| 47.5° | 281.4 |
| 50° | 175.1 |
| 52.5° | 121.5 |
| 55° | 87.1 |
| 57.5° | 62.8 |
| 60° | 43.5 |
| 62.5° | 28.3 |
| 65° | 20.2 |
| 67.5° | 18.2 |
| 70° | 17.2 |
| 72.5° | 13.2 |
| 75° | 10.1 |
| 77.5° | 9.1 |
| 80° | 7.1 |
| 82.5° | 5.1 |
| 85° | 3.0 |
| 87.5° | 2.0 |
| 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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