

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P754569

Luminaire Tested: LD4D85BD010-EU4DR3070959027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR3070959027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

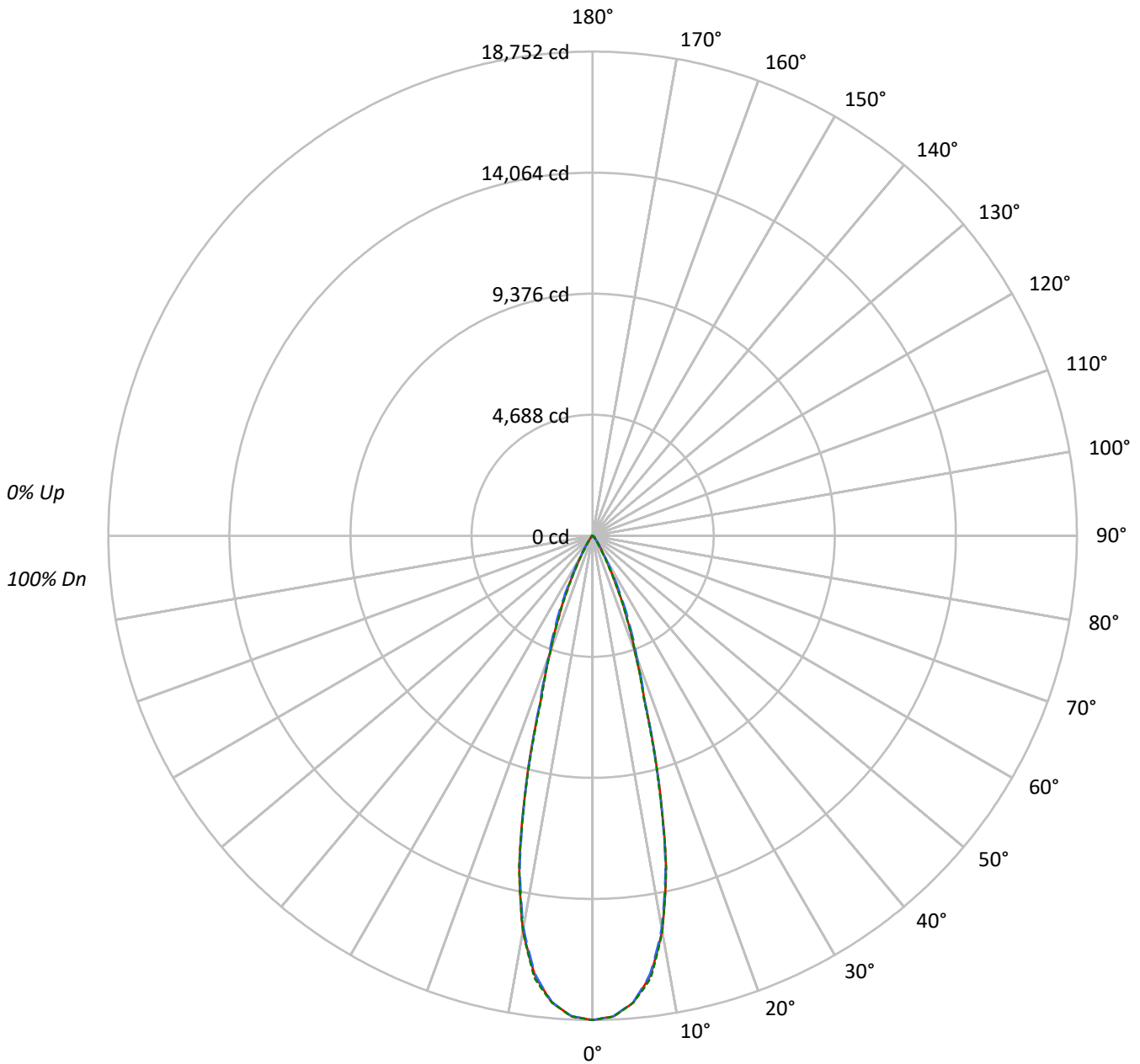
Lumens per Lamp: N/A
Luminaire Lumens: 5831.8 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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



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Luminous Intensity Polar Plot





TEST NUMBER: P754569

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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 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1435357 | 1435357 | 1435357 |
| 5° | 1394147 | 1392526 | 1394224 |
| 10° | 1207547 | 1199028 | 1207259 |
| 15° | 787863 | 783632 | 779693 |
| 20° | 391770 | 406464 | 391240 |
| 25° | 197349 | 222542 | 193304 |
| 30° | 79016 | 86096 | 68843 |
| 35° | 36648 | 35097 | 29425 |
| 40° | 15827 | 17566 | 14898 |
| 45° | 11160 | 13856 | 11258 |
| 50° | 3834 | 10086 | 4061 |
| 55° | 2215 | 4177 | 2335 |
| 60° | 1546 | 1837 | 1546 |
| 65° | 996 | 996 | 996 |
| 70° | 627 | 403 | 627 |
| 75° | 0 | 266 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13856 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1649.0 | 28.3 |
| 10°-20° | 2655.7 | 45.5 |
| 20°-30° | 1147.6 | 19.7 |
| 30°-40° | 261.6 | 4.5 |
| 40°-50° | 89.8 | 1.5 |
| 50°-60° | 21.9 | 0.4 |
| 60°-70° | 5.7 | 0.1 |
| 70°-80° | 0.6 | 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° | 5452.3 | 93.5 |
| 0°-40° | 5713.8 | 98.0 |
| 0°-60° | 5825.6 | 99.9 |
| 0°-90° | 5831.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5831.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 18752 | 18752 | 18752 | 18752 | 18752 | |
| 5° | 18144 | 18127 | 18123 | 18161 | 18146 | 1650 |
| 15° | 9942 | 9823 | 9889 | 9857 | 9839 | 2662 |
| 25° | 2337 | 2425 | 2635 | 2363 | 2289 | 1118 |
| 35° | 392 | 400 | 376 | 373 | 315 | 266 |
| 45° | 103 | 128 | 128 | 128 | 104 | 73 |
| 55° | 17 | 18 | 31 | 18 | 18 | 16 |
| 65° | 6 | 6 | 6 | 6 | 6 | 5 |
| 75° | 0 | 0 | 1 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 18752.2 | 18752.2 | 18752.2 | 18752.2 | 18752.2 |
| 2.5° | 18627.9 | 18615.0 | 18622.4 | 18631.6 | 18635.3 |
| 5° | 18144.5 | 18127.1 | 18123.4 | 18161.1 | 18145.5 |
| 7.5° | 17169.6 | 17144.7 | 17107.0 | 17192.6 | 17272.7 |
| 10° | 15536.3 | 15508.7 | 15426.7 | 15467.2 | 15532.6 |
| 12.5° | 13125.1 | 13035.8 | 13033.9 | 13162.8 | 13145.3 |
| 15° | 9942.3 | 9822.6 | 9888.9 | 9856.7 | 9839.2 |
| 17.5° | 6685.9 | 6639.9 | 6728.3 | 6701.6 | 6586.5 |
| 20° | 4809.6 | 4821.5 | 4990.0 | 4905.3 | 4803.1 |
| 22.5° | 3509.6 | 3552.9 | 3752.6 | 3534.4 | 3454.4 |
| 25° | 2336.7 | 2425.0 | 2635.0 | 2363.4 | 2288.8 |
| 27.5° | 1437.2 | 1477.7 | 1690.3 | 1418.8 | 1378.2 |
| 30° | 894.0 | 873.7 | 974.1 | 836.0 | 778.9 |
| 32.5° | 586.5 | 560.7 | 592.9 | 532.1 | 486.1 |
| 35° | 392.2 | 400.5 | 375.6 | 372.9 | 314.9 |
| 37.5° | 244.9 | 281.7 | 248.6 | 265.2 | 202.5 |
| 40° | 158.4 | 204.4 | 175.8 | 194.3 | 149.1 |
| 42.5° | 129.8 | 157.4 | 144.5 | 153.8 | 132.6 |
| 45° | 103.1 | 128.0 | 128.0 | 128.0 | 104.0 |
| 47.5° | 57.1 | 85.6 | 109.6 | 87.5 | 60.8 |
| 50° | 32.2 | 43.3 | 84.7 | 45.1 | 34.1 |
| 52.5° | 22.1 | 24.9 | 58.0 | 25.8 | 23.0 |
| 55° | 16.6 | 17.5 | 31.3 | 18.4 | 17.5 |
| 57.5° | 12.9 | 13.8 | 16.6 | 13.8 | 12.9 |
| 60° | 10.1 | 10.1 | 12.0 | 11.0 | 10.1 |
| 62.5° | 7.4 | 7.4 | 8.3 | 7.4 | 7.4 |
| 65° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 67.5° | 2.8 | 3.7 | 3.7 | 3.7 | 3.7 |
| 70° | 2.8 | 1.8 | 1.8 | 1.8 | 2.8 |
| 72.5° | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 |
| 75° | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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