

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: P772668

Luminaire Tested: LD6D85BD010-EU6DR3070959040-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D85BD010-EU6DR3070959040-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10489.5 lumens
Efficiency: N/A
Efficacy: 119.6 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

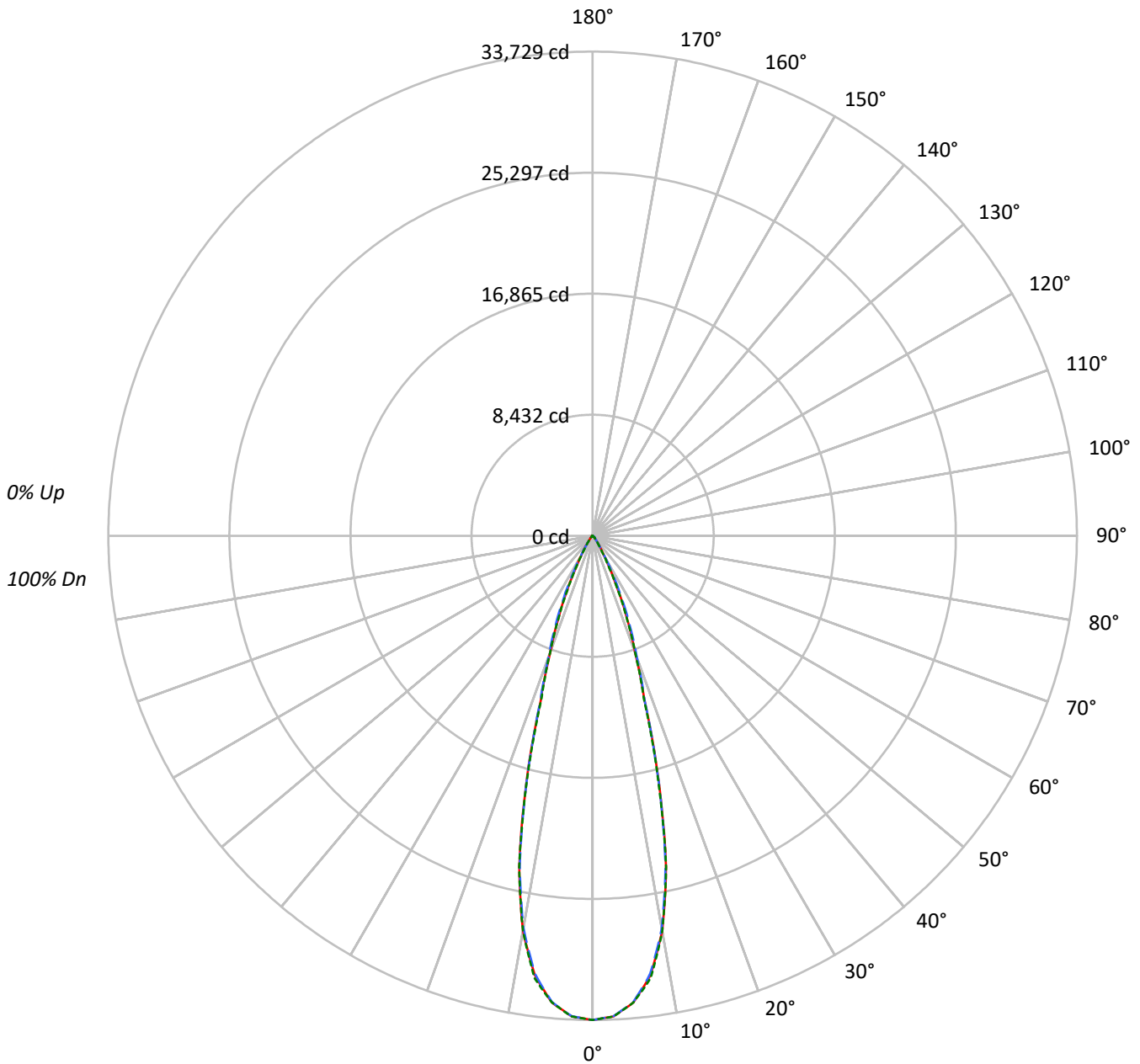


Downlight

TEST NUMBER: P772668

CATALOG NUMBER: LD6D85BD010-EU6DR3070959040-6LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P772668

CATALOG NUMBER: LD6D85BD010-EU6DR3070959040-6LBS1B

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° | 2581732 | 2581732 | 2581732 |
| 5° | 2507612 | 2504685 | 2507743 |
| 10° | 2171972 | 2156660 | 2171459 |
| 15° | 1417105 | 1409497 | 1402405 |
| 20° | 704658 | 731098 | 703713 |
| 25° | 354961 | 400272 | 347690 |
| 30° | 142123 | 154850 | 123827 |
| 35° | 65914 | 63130 | 52916 |
| 40° | 28457 | 31605 | 26809 |
| 45° | 20080 | 24919 | 20253 |
| 50° | 6907 | 18148 | 7300 |
| 55° | 3977 | 7513 | 4204 |
| 60° | 2786 | 3291 | 2786 |
| 65° | 1793 | 1793 | 1793 |
| 70° | 1119 | 739 | 1119 |
| 75° | 0 | 503 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 24919 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2966.0 | 28.3 |
| 10°-20° | 4776.7 | 45.5 |
| 20°-30° | 2064.1 | 19.7 |
| 30°-40° | 470.5 | 4.5 |
| 40°-50° | 161.5 | 1.5 |
| 50°-60° | 39.5 | 0.4 |
| 60°-70° | 10.2 | 0.1 |
| 70°-80° | 1.1 | 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° | 9806.8 | 93.5 |
| 0°-40° | 10277.2 | 98.0 |
| 0°-60° | 10478.2 | 99.9 |
| 0°-90° | 10489.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 10489.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 33729 | 33729 | 33729 | 33729 | 33729 | |
| 5° | 32636 | 32605 | 32598 | 32666 | 32638 | 2968 |
| 15° | 17883 | 17668 | 17787 | 17729 | 17697 | 4788 |
| 25° | 4203 | 4362 | 4739 | 4251 | 4117 | 2012 |
| 35° | 705 | 720 | 676 | 671 | 566 | 478 |
| 45° | 186 | 230 | 230 | 230 | 187 | 132 |
| 55° | 30 | 32 | 56 | 33 | 32 | 29 |
| 65° | 10 | 10 | 10 | 10 | 10 | 10 |
| 75° | 0 | 0 | 2 | 0 | 0 | 2 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



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CATALOG NUMBER: LD6D85BD010-EU6DR3070959040-6LBS1B

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 33729.0 | 33729.0 | 33729.0 | 33729.0 | 33729.0 |
| 2.5° | 33505.4 | 33482.2 | 33495.5 | 33512.0 | 33518.7 |
| 5° | 32636.0 | 32604.6 | 32597.9 | 32665.8 | 32637.7 |
| 7.5° | 30882.4 | 30837.6 | 30769.7 | 30923.8 | 31067.8 |
| 10° | 27944.6 | 27895.0 | 27747.6 | 27820.4 | 27938.0 |
| 12.5° | 23607.6 | 23447.0 | 23443.7 | 23675.5 | 23644.1 |
| 15° | 17882.9 | 17667.6 | 17786.9 | 17728.9 | 17697.4 |
| 17.5° | 12025.7 | 11942.9 | 12101.9 | 12053.9 | 11846.9 |
| 20° | 8650.8 | 8672.4 | 8975.4 | 8823.1 | 8639.2 |
| 22.5° | 6312.6 | 6390.4 | 6749.8 | 6357.3 | 6213.2 |
| 25° | 4202.9 | 4361.8 | 4739.4 | 4250.9 | 4116.8 |
| 27.5° | 2585.0 | 2657.8 | 3040.4 | 2551.9 | 2479.0 |
| 30° | 1608.0 | 1571.5 | 1752.0 | 1503.6 | 1401.0 |
| 32.5° | 1054.9 | 1008.5 | 1066.5 | 957.2 | 874.4 |
| 35° | 705.4 | 720.4 | 675.6 | 670.7 | 566.3 |
| 37.5° | 440.5 | 506.7 | 447.1 | 476.9 | 364.3 |
| 40° | 284.8 | 367.6 | 316.3 | 349.4 | 268.3 |
| 42.5° | 233.5 | 283.2 | 260.0 | 276.5 | 238.5 |
| 45° | 185.5 | 230.2 | 230.2 | 230.2 | 187.1 |
| 47.5° | 102.7 | 154.0 | 197.1 | 157.3 | 109.3 |
| 50° | 58.0 | 77.8 | 152.4 | 81.1 | 61.3 |
| 52.5° | 39.7 | 44.7 | 104.3 | 46.4 | 41.4 |
| 55° | 29.8 | 31.5 | 56.3 | 33.1 | 31.5 |
| 57.5° | 23.2 | 24.8 | 29.8 | 24.8 | 23.2 |
| 60° | 18.2 | 18.2 | 21.5 | 19.9 | 18.2 |
| 62.5° | 13.2 | 13.2 | 14.9 | 13.2 | 13.2 |
| 65° | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| 67.5° | 5.0 | 6.6 | 6.6 | 6.6 | 6.6 |
| 70° | 5.0 | 3.3 | 3.3 | 3.3 | 5.0 |
| 72.5° | 3.3 | 1.7 | 1.7 | 1.7 | 1.7 |
| 75° | 0.0 | 0.0 | 1.7 | 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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