

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: P770289

Luminaire Tested: LD6D70BD010-EU6DR3070959027-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P770289
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: LD6D70BD010-EU6DR3070959027-6LBS1B
Description: 6 INCH ROUND SHALLOW 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: 7551.1 lumens
Efficiency: N/A
Efficacy: 113.4 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): 66.6
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

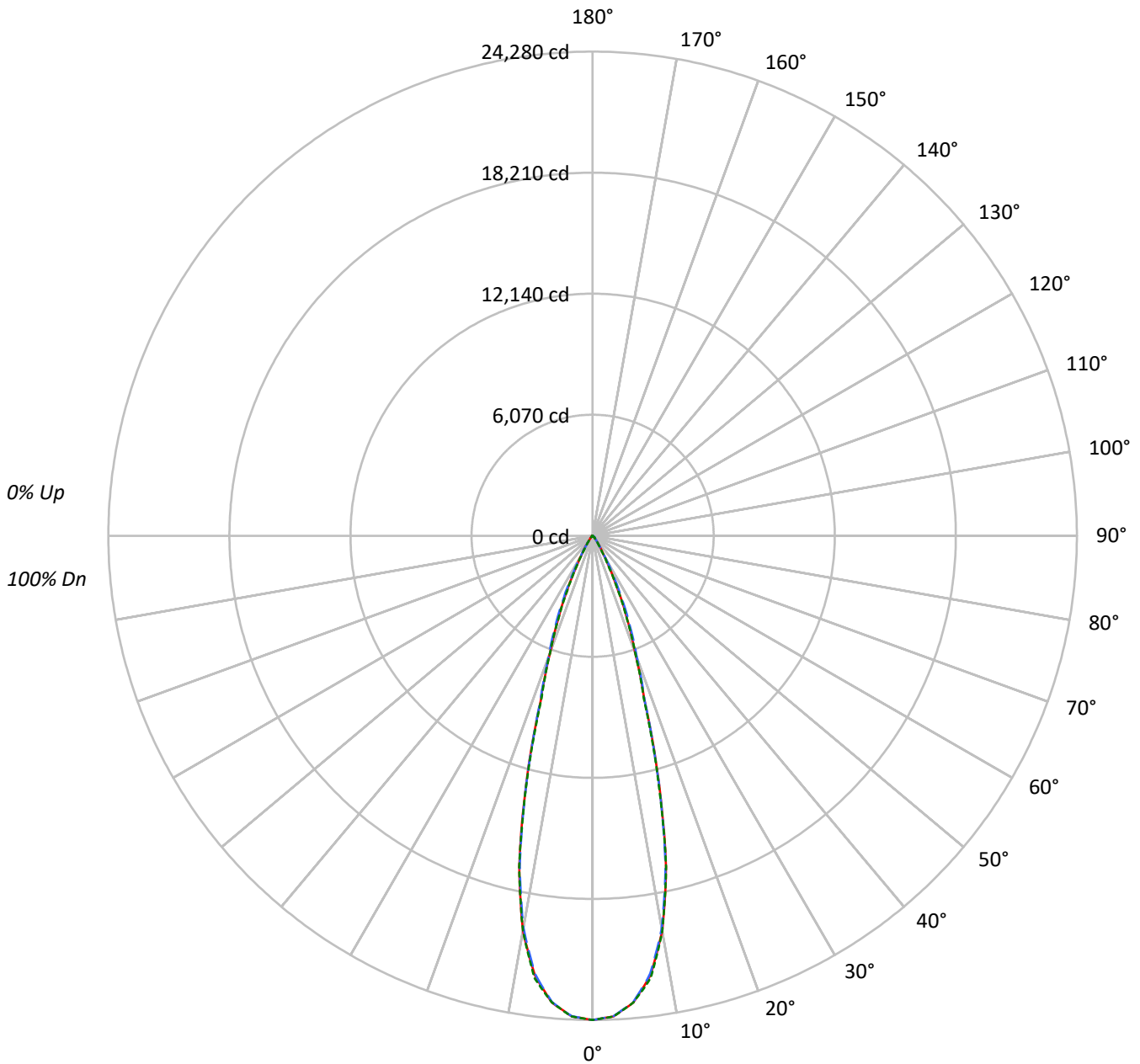


Downlight

TEST NUMBER: P770289

CATALOG NUMBER: LD6D70BD010-EU6DR3070959027-6LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P770289

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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 | 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° | 1858489 | 1858489 | 1858489 |
| 5° | 1805134 | 1803028 | 1805226 |
| 10° | 1563523 | 1552494 | 1563150 |
| 15° | 1020118 | 1014642 | 1009539 |
| 20° | 507258 | 526294 | 506582 |
| 25° | 255523 | 288140 | 250286 |
| 30° | 102305 | 111471 | 89136 |
| 35° | 47450 | 45450 | 38096 |
| 40° | 20484 | 22752 | 19295 |
| 45° | 14451 | 17937 | 14581 |
| 50° | 4966 | 13063 | 5251 |
| 55° | 2869 | 5405 | 3016 |
| 60° | 2005 | 2373 | 2005 |
| 65° | 1304 | 1304 | 1304 |
| 70° | 806 | 537 | 806 |
| 75° | 0 | 355 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17937 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2135.1 | 28.3 |
| 10°-20° | 3438.6 | 45.5 |
| 20°-30° | 1485.9 | 19.7 |
| 30°-40° | 338.7 | 4.5 |
| 40°-50° | 116.3 | 1.5 |
| 50°-60° | 28.4 | 0.4 |
| 60°-70° | 7.4 | 0.1 |
| 70°-80° | 0.8 | 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° | 7059.5 | 93.5 |
| 0°-40° | 7398.2 | 98.0 |
| 0°-60° | 7542.9 | 99.9 |
| 0°-90° | 7551.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7551.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 24280 | 24280 | 24280 | 24280 | 24280 | |
| 5° | 23493 | 23471 | 23466 | 23515 | 23495 | 2137 |
| 15° | 12873 | 12718 | 12804 | 12762 | 12740 | 3447 |
| 25° | 3026 | 3140 | 3412 | 3060 | 2964 | 1448 |
| 35° | 508 | 519 | 486 | 483 | 408 | 344 |
| 45° | 134 | 166 | 166 | 166 | 135 | 95 |
| 55° | 22 | 23 | 40 | 24 | 23 | 21 |
| 65° | 7 | 7 | 7 | 7 | 7 | 7 |
| 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° | 24280.2 | 24280.2 | 24280.2 | 24280.2 | 24280.2 |
| 2.5° | 24119.3 | 24102.6 | 24112.1 | 24124.1 | 24128.8 |
| 5° | 23493.4 | 23470.8 | 23466.0 | 23514.9 | 23494.6 |
| 7.5° | 22231.0 | 22198.9 | 22150.0 | 22260.8 | 22364.6 |
| 10° | 20116.3 | 20080.5 | 19974.4 | 20026.9 | 20111.5 |
| 12.5° | 16994.2 | 16878.6 | 16876.2 | 17043.1 | 17020.5 |
| 15° | 12873.2 | 12718.3 | 12804.1 | 12762.4 | 12739.7 |
| 17.5° | 8656.9 | 8597.3 | 8711.7 | 8677.1 | 8528.1 |
| 20° | 6227.4 | 6242.9 | 6461.1 | 6351.4 | 6219.1 |
| 22.5° | 4544.2 | 4600.2 | 4858.9 | 4576.4 | 4472.7 |
| 25° | 3025.5 | 3139.9 | 3411.7 | 3060.1 | 2963.5 |
| 27.5° | 1860.8 | 1913.3 | 2188.7 | 1837.0 | 1784.5 |
| 30° | 1157.5 | 1131.3 | 1261.2 | 1082.4 | 1008.5 |
| 32.5° | 759.4 | 726.0 | 767.7 | 689.0 | 629.4 |
| 35° | 507.8 | 518.6 | 486.4 | 482.8 | 407.7 |
| 37.5° | 317.1 | 364.8 | 321.9 | 343.3 | 262.3 |
| 40° | 205.0 | 264.6 | 227.7 | 251.5 | 193.1 |
| 42.5° | 168.1 | 203.8 | 187.2 | 199.1 | 171.7 |
| 45° | 133.5 | 165.7 | 165.7 | 165.7 | 134.7 |
| 47.5° | 73.9 | 110.9 | 141.9 | 113.2 | 78.7 |
| 50° | 41.7 | 56.0 | 109.7 | 58.4 | 44.1 |
| 52.5° | 28.6 | 32.2 | 75.1 | 33.4 | 29.8 |
| 55° | 21.5 | 22.6 | 40.5 | 23.8 | 22.6 |
| 57.5° | 16.7 | 17.9 | 21.5 | 17.9 | 16.7 |
| 60° | 13.1 | 13.1 | 15.5 | 14.3 | 13.1 |
| 62.5° | 9.5 | 9.5 | 10.7 | 9.5 | 9.5 |
| 65° | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 67.5° | 3.6 | 4.8 | 4.8 | 4.8 | 4.8 |
| 70° | 3.6 | 2.4 | 2.4 | 2.4 | 3.6 |
| 72.5° | 2.4 | 1.2 | 1.2 | 1.2 | 1.2 |
| 75° | 0.0 | 0.0 | 1.2 | 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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