

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: P767989

Luminaire Tested: LD6D55D010-EU6DR3055659040-6LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P767989
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: LD6D55D010-EU6DR3055659040-6LBS1H
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7079.6 lumens
Efficiency: N/A
Efficacy: 121.6 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

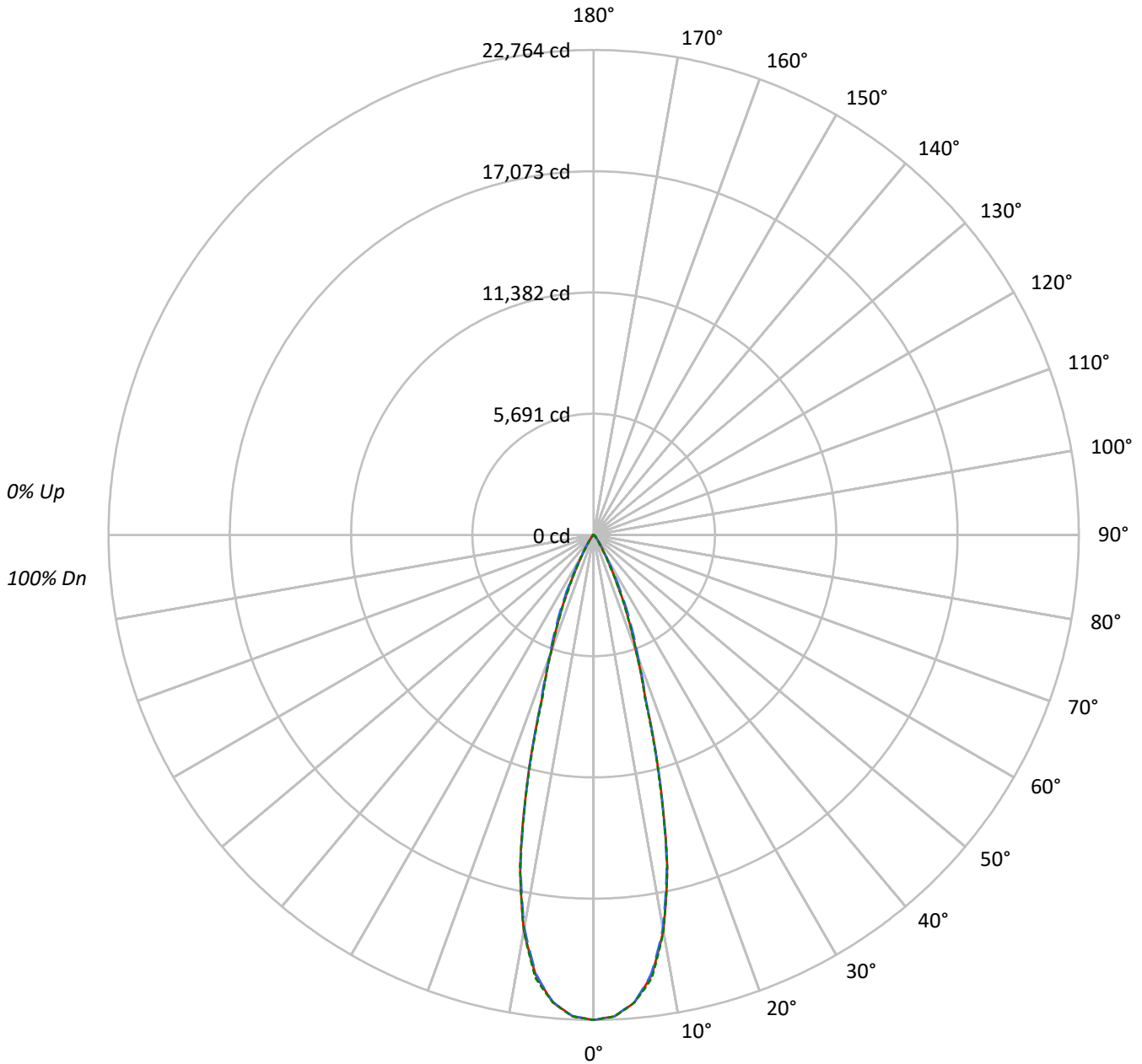
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P767989
CATALOG NUMBER: LD6D55D010-EU6DR3055659040-6LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P767989

CATALOG NUMBER: LD6D55D010-EU6DR3055659040-6LBS1H

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° | 1742472 | 1742472 | 1742472 |
| 5° | 1692446 | 1690472 | 1692539 |
| 10° | 1465917 | 1455580 | 1465568 |
| 15° | 956438 | 951303 | 946517 |
| 20° | 475596 | 493435 | 474952 |
| 25° | 239569 | 270150 | 234662 |
| 30° | 95915 | 104515 | 83568 |
| 35° | 44488 | 42610 | 35714 |
| 40° | 19205 | 21333 | 18096 |
| 45° | 13553 | 16822 | 13672 |
| 50° | 4656 | 12241 | 4930 |
| 55° | 2682 | 5071 | 2829 |
| 60° | 1883 | 2220 | 1883 |
| 65° | 1213 | 1213 | 1213 |
| 70° | 761 | 492 | 761 |
| 75° | 0 | 325 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16822 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2001.8 | 28.3 |
| 10°-20° | 3223.9 | 45.5 |
| 20°-30° | 1393.1 | 19.7 |
| 30°-40° | 317.5 | 4.5 |
| 40°-50° | 109.0 | 1.5 |
| 50°-60° | 26.6 | 0.4 |
| 60°-70° | 6.9 | 0.1 |
| 70°-80° | 0.7 | 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° | 6618.8 | 93.5 |
| 0°-40° | 6936.4 | 98.0 |
| 0°-60° | 7072.0 | 99.9 |
| 0°-90° | 7079.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7079.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 22764 | 22764 | 22764 | 22764 | 22764 | |
| 5° | 22027 | 22006 | 22001 | 22047 | 22028 | 2003 |
| 15° | 12070 | 11924 | 12005 | 11966 | 11944 | 3232 |
| 25° | 2837 | 2944 | 3199 | 2869 | 2778 | 1358 |
| 35° | 476 | 486 | 456 | 453 | 382 | 323 |
| 45° | 125 | 155 | 155 | 155 | 126 | 89 |
| 55° | 20 | 21 | 38 | 22 | 21 | 20 |
| 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° | 22764.5 | 22764.5 | 22764.5 | 22764.5 | 22764.5 |
| 2.5° | 22613.6 | 22598.0 | 22606.9 | 22618.1 | 22622.6 |
| 5° | 22026.8 | 22005.6 | 22001.1 | 22047.0 | 22028.0 |
| 7.5° | 20843.2 | 20813.1 | 20767.2 | 20871.2 | 20968.4 |
| 10° | 18860.5 | 18827.0 | 18727.5 | 18776.7 | 18856.0 |
| 12.5° | 15933.4 | 15825.0 | 15822.7 | 15979.2 | 15958.0 |
| 15° | 12069.6 | 11924.3 | 12004.8 | 11965.7 | 11944.4 |
| 17.5° | 8116.4 | 8060.6 | 8167.9 | 8135.4 | 7995.7 |
| 20° | 5838.7 | 5853.2 | 6057.7 | 5954.9 | 5830.8 |
| 22.5° | 4260.5 | 4313.1 | 4555.6 | 4290.7 | 4193.5 |
| 25° | 2836.6 | 2943.9 | 3198.7 | 2869.0 | 2778.5 |
| 27.5° | 1744.7 | 1793.8 | 2052.0 | 1722.3 | 1673.1 |
| 30° | 1085.2 | 1060.7 | 1182.5 | 1014.8 | 945.5 |
| 32.5° | 711.9 | 680.7 | 719.8 | 646.0 | 590.1 |
| 35° | 476.1 | 486.2 | 456.0 | 452.7 | 382.2 |
| 37.5° | 297.3 | 342.0 | 301.8 | 321.9 | 245.9 |
| 40° | 192.2 | 248.1 | 213.5 | 235.8 | 181.1 |
| 42.5° | 157.6 | 191.1 | 175.5 | 186.6 | 160.9 |
| 45° | 125.2 | 155.4 | 155.4 | 155.4 | 126.3 |
| 47.5° | 69.3 | 103.9 | 133.0 | 106.2 | 73.8 |
| 50° | 39.1 | 52.5 | 102.8 | 54.8 | 41.4 |
| 52.5° | 26.8 | 30.2 | 70.4 | 31.3 | 27.9 |
| 55° | 20.1 | 21.2 | 38.0 | 22.4 | 21.2 |
| 57.5° | 15.6 | 16.8 | 20.1 | 16.8 | 15.6 |
| 60° | 12.3 | 12.3 | 14.5 | 13.4 | 12.3 |
| 62.5° | 8.9 | 8.9 | 10.1 | 8.9 | 8.9 |
| 65° | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| 67.5° | 3.4 | 4.5 | 4.5 | 4.5 | 4.5 |
| 70° | 3.4 | 2.2 | 2.2 | 2.2 | 3.4 |
| 72.5° | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 |
| 75° | 0.0 | 0.0 | 1.1 | 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 |

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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Scaled Data Report





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

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