

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: P758142

Luminaire Tested: LD6D05D010-EU6DR300210IC9024-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P758142
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: LD6D05D010-EU6DR300210IC9024-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 622.3 lumens
Efficiency: N/A
Efficacy: 83.0 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): 7.5
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

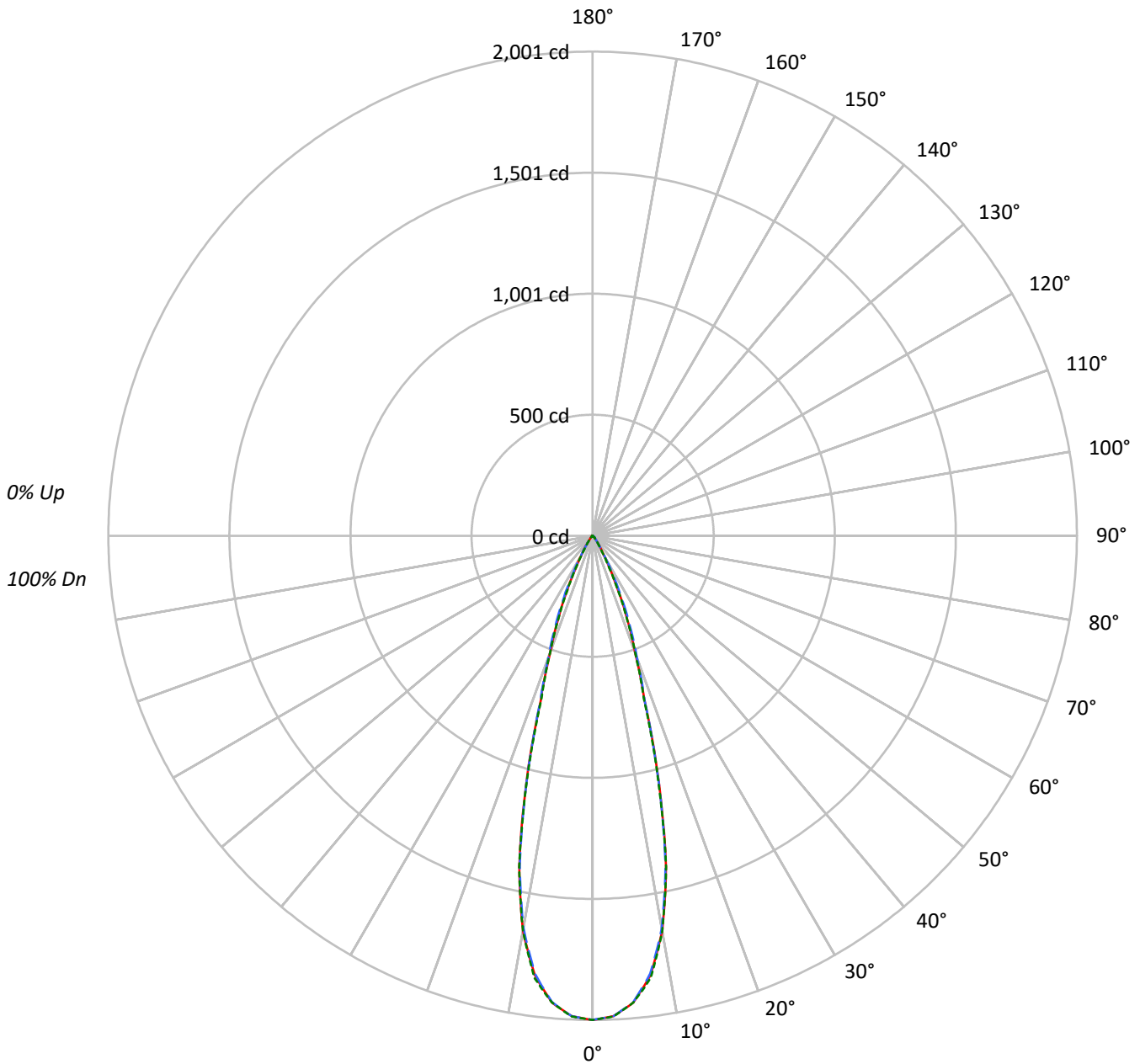


Downlight



TEST NUMBER: P758142
CATALOG NUMBER: LD6D05D010-EU6DR300210IC9024-6LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P758142

CATALOG NUMBER: LD6D05D010-EU6DR300210IC9024-6LBS1LI

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° | 153156 | 153156 | 153156 |
| 5° | 148754 | 148585 | 148762 |
| 10° | 128843 | 127934 | 128812 |
| 15° | 84062 | 83610 | 83190 |
| 20° | 41803 | 43367 | 41746 |
| 25° | 21055 | 23741 | 20624 |
| 30° | 8432 | 9183 | 7345 |
| 35° | 3906 | 3747 | 3140 |
| 40° | 1689 | 1869 | 1589 |
| 45° | 1191 | 1472 | 1202 |
| 50° | 405 | 1084 | 429 |
| 55° | 240 | 440 | 254 |
| 60° | 168 | 199 | 168 |
| 65° | 109 | 109 | 109 |
| 70° | 67 | 45 | 67 |
| 75° | 0 | 30 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1472 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 175.9 | 28.3 |
| 10°-20° | 283.4 | 45.5 |
| 20°-30° | 122.4 | 19.7 |
| 30°-40° | 27.9 | 4.5 |
| 40°-50° | 9.6 | 1.5 |
| 50°-60° | 2.3 | 0.4 |
| 60°-70° | 0.6 | 0.1 |
| 70°-80° | 0.1 | 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° | 581.7 | 93.5 |
| 0°-40° | 609.7 | 98.0 |
| 0°-60° | 621.6 | 99.9 |
| 0°-90° | 622.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 622.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2001 | 2001 | 2001 | 2001 | 2001 | |
| 5° | 1936 | 1934 | 1934 | 1938 | 1936 | 176 |
| 15° | 1061 | 1048 | 1055 | 1052 | 1050 | 284 |
| 25° | 249 | 259 | 281 | 252 | 244 | 119 |
| 35° | 42 | 43 | 40 | 40 | 34 | 28 |
| 45° | 11 | 14 | 14 | 14 | 11 | 8 |
| 55° | 2 | 2 | 3 | 2 | 2 | 2 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2000.9 | 2000.9 | 2000.9 | 2000.9 | 2000.9 |
| 2.5° | 1987.6 | 1986.2 | 1987.0 | 1988.0 | 1988.4 |
| 5° | 1936.0 | 1934.2 | 1933.8 | 1937.8 | 1936.1 |
| 7.5° | 1832.0 | 1829.3 | 1825.3 | 1834.4 | 1843.0 |
| 10° | 1657.7 | 1654.7 | 1646.0 | 1650.3 | 1657.3 |
| 12.5° | 1400.4 | 1390.9 | 1390.7 | 1404.5 | 1402.6 |
| 15° | 1060.8 | 1048.0 | 1055.1 | 1051.7 | 1049.8 |
| 17.5° | 713.4 | 708.5 | 717.9 | 715.0 | 702.8 |
| 20° | 513.2 | 514.5 | 532.4 | 523.4 | 512.5 |
| 22.5° | 374.5 | 379.1 | 400.4 | 377.1 | 368.6 |
| 25° | 249.3 | 258.7 | 281.1 | 252.2 | 244.2 |
| 27.5° | 153.3 | 157.7 | 180.4 | 151.4 | 147.1 |
| 30° | 95.4 | 93.2 | 103.9 | 89.2 | 83.1 |
| 32.5° | 62.6 | 59.8 | 63.3 | 56.8 | 51.9 |
| 35° | 41.8 | 42.7 | 40.1 | 39.8 | 33.6 |
| 37.5° | 26.1 | 30.1 | 26.5 | 28.3 | 21.6 |
| 40° | 16.9 | 21.8 | 18.7 | 20.7 | 15.9 |
| 42.5° | 13.9 | 16.8 | 15.4 | 16.4 | 14.2 |
| 45° | 11.0 | 13.6 | 13.6 | 13.6 | 11.1 |
| 47.5° | 6.1 | 9.1 | 11.7 | 9.3 | 6.5 |
| 50° | 3.4 | 4.6 | 9.1 | 4.8 | 3.6 |
| 52.5° | 2.3 | 2.6 | 6.2 | 2.8 | 2.5 |
| 55° | 1.8 | 1.9 | 3.3 | 1.9 | 1.9 |
| 57.5° | 1.4 | 1.5 | 1.8 | 1.5 | 1.4 |
| 60° | 1.1 | 1.1 | 1.3 | 1.2 | 1.1 |
| 62.5° | 0.8 | 0.8 | 0.9 | 0.8 | 0.8 |
| 65° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 67.5° | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 |
| 70° | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 |
| 72.5° | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 75° | 0.0 | 0.0 | 0.1 | 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



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Scaled Data Report





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

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