

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: P759930

Luminaire Tested: LD6D10D010-EU6DR150210IC9024-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P759930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D10D010-EU6DR150210IC9024-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 855.8 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 11.7
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



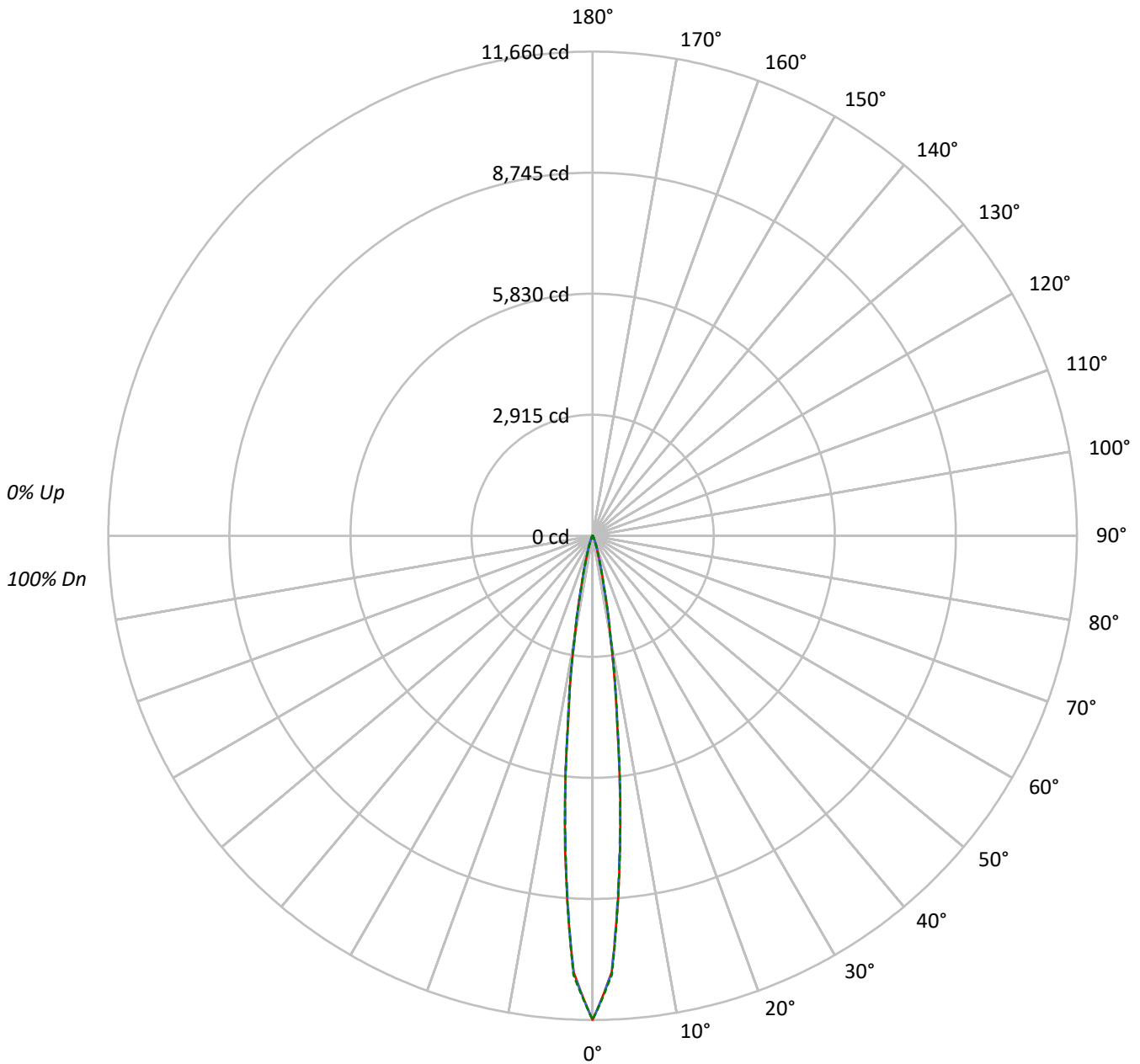
Downlight



TEST NUMBER: P759930

CATALOG NUMBER: LD6D10D010-EU6DR150210IC9024-6LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P759930

CATALOG NUMBER: LD6D10D010-EU6DR150210IC9024-6LBDP1B

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 | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 103 | 101 | 100 | 100 | 98 | | | | | | | | | | | | | | | | | | | |
| 2 | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 98 | 98 | 96 | | | | | | | | | | | | | | | | | | | |
| 3 | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99 | 100 | 99 | 97 | 98 | 97 | 96 | 94 | | | | | | | | | | | | | | | | | | | |
| 4 | 108 | 103 | 100 | 98 | 106 | 102 | 99 | 97 | 100 | 98 | 96 | 99 | 97 | 95 | 97 | 95 | 94 | 93 | | | | | | | | | | | | | | | | | | | |
| 5 | 106 | 101 | 98 | 95 | 104 | 100 | 97 | 95 | 98 | 96 | 94 | 97 | 95 | 93 | 96 | 94 | 92 | 92 | | | | | | | | | | | | | | | | | | | |
| 6 | 104 | 99 | 95 | 93 | 102 | 98 | 95 | 93 | 97 | 94 | 92 | 96 | 93 | 92 | 95 | 93 | 91 | 90 | | | | | | | | | | | | | | | | | | | |
| 7 | 102 | 97 | 94 | 91 | 101 | 96 | 93 | 91 | 95 | 93 | 91 | 94 | 92 | 90 | 93 | 91 | 90 | 89 | | | | | | | | | | | | | | | | | | | |
| 8 | 100 | 95 | 92 | 90 | 99 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 92 | 90 | 89 | 88 | | | | | | | | | | | | | | | | | | | |
| 9 | 99 | 93 | 90 | 88 | 98 | 93 | 90 | 88 | 92 | 90 | 88 | 92 | 89 | 88 | 91 | 89 | 87 | 87 | | | | | | | | | | | | | | | | | | | |
| 10 | 97 | 92 | 89 | 87 | 96 | 92 | 89 | 87 | 91 | 89 | 87 | 91 | 88 | 87 | 90 | 88 | 86 | 86 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1312005 | 1312005 | 1312005 |
| 5° | 770998 | 761007 | 767034 |
| 10° | 230106 | 231720 | 235266 |
| 15° | 57239 | 58350 | 56552 |
| 20° | 17126 | 19834 | 17486 |
| 25° | 6037 | 7689 | 6115 |
| 30° | 2216 | 2920 | 2254 |
| 35° | 1111 | 1256 | 1075 |
| 40° | 703 | 774 | 703 |
| 45° | 518 | 553 | 518 |
| 50° | 410 | 410 | 410 |
| 55° | 341 | 341 | 341 |
| 60° | 274 | 274 | 274 |
| 65° | 214 | 214 | 214 |
| 70° | 183 | 183 | 183 |
| 75° | 113 | 113 | 151 |
| 80° | 79 | 79 | 79 |
| 85° | 42 | 42 | 42 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 553 cd/sqm



TEST NUMBER: P759930

CATALOG NUMBER: LD6D10D010-EU6DR150210IC9024-6LBDP1B

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 555.0 | 64.9 |
| 10°-20° | 228.3 | 26.7 |
| 20°-30° | 45.4 | 5.3 |
| 30°-40° | 11.3 | 1.3 |
| 40°-50° | 5.9 | 0.7 |
| 50°-60° | 4.4 | 0.5 |
| 60°-70° | 3.1 | 0.4 |
| 70°-80° | 1.8 | 0.2 |
| 80°-90° | 0.5 | 0.1 |
| 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° | 828.7 | 96.8 |
| 0°-40° | 840.0 | 98.2 |
| 0°-60° | 850.4 | 99.4 |
| 0°-90° | 855.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 855.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 11660 | 11660 | 11660 | 11660 | 11660 | |
| 5° | 7586 | 7508 | 7488 | 7540 | 7547 | 554 |
| 15° | 659 | 671 | 672 | 660 | 651 | 226 |
| 25° | 78 | 88 | 99 | 87 | 78 | 41 |
| 35° | 15 | 16 | 17 | 16 | 15 | 10 |
| 45° | 7 | 7 | 8 | 7 | 7 | 6 |
| 55° | 5 | 5 | 5 | 5 | 5 | 4 |
| 65° | 3 | 3 | 3 | 3 | 3 | 3 |
| 75° | 2 | 2 | 2 | 2 | 2 | 2 |
| 85° | 0 | 0 | 0 | 0 | 0 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P759930

CATALOG NUMBER: LD6D10D010-EU6DR150210IC9024-6LBDP1B

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 11660.2 | 11660.2 | 11660.2 | 11660.2 | 11660.2 |
| 2.5° | 10517.9 | 10526.8 | 10530.3 | 10540.6 | 10579.1 |
| 5° | 7586.4 | 7508.4 | 7488.1 | 7540.0 | 7547.4 |
| 7.5° | 4493.9 | 4509.7 | 4567.4 | 4580.2 | 4533.8 |
| 10° | 2466.1 | 2486.3 | 2483.4 | 2501.1 | 2521.4 |
| 12.5° | 1261.2 | 1245.4 | 1240.5 | 1260.7 | 1232.6 |
| 15° | 659.0 | 671.3 | 671.8 | 660.0 | 651.1 |
| 17.5° | 354.4 | 368.7 | 392.4 | 373.2 | 343.6 |
| 20° | 209.3 | 222.1 | 242.4 | 226.6 | 213.7 |
| 22.5° | 129.3 | 139.7 | 154.0 | 141.7 | 131.3 |
| 25° | 77.5 | 87.9 | 98.7 | 87.4 | 78.5 |
| 27.5° | 45.9 | 54.8 | 61.7 | 54.3 | 45.4 |
| 30° | 29.6 | 34.6 | 39.0 | 34.1 | 30.1 |
| 32.5° | 20.7 | 22.7 | 24.7 | 22.7 | 20.7 |
| 35° | 15.3 | 16.3 | 17.3 | 16.3 | 14.8 |
| 37.5° | 11.8 | 12.8 | 13.3 | 12.3 | 11.4 |
| 40° | 9.9 | 10.4 | 10.9 | 10.4 | 9.9 |
| 42.5° | 8.4 | 8.9 | 8.9 | 8.9 | 8.4 |
| 45° | 7.4 | 7.4 | 7.9 | 7.4 | 7.4 |
| 47.5° | 6.4 | 6.4 | 6.9 | 6.4 | 6.4 |
| 50° | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 52.5° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 55° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 57.5° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 60° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 62.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 65° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 67.5° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 70° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 72.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 75° | 1.5 | 1.5 | 1.5 | 1.5 | 2.0 |
| 77.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 80° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 82.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 85° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 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

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

Scaled Data Report





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

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)