

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: P758201

Luminaire Tested: LD6D05D010-EU6DR300210IC9050-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P758201
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-EU6DR300210IC9050-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 557.0 lumens
Efficiency: N/A
Efficacy: 74.3 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



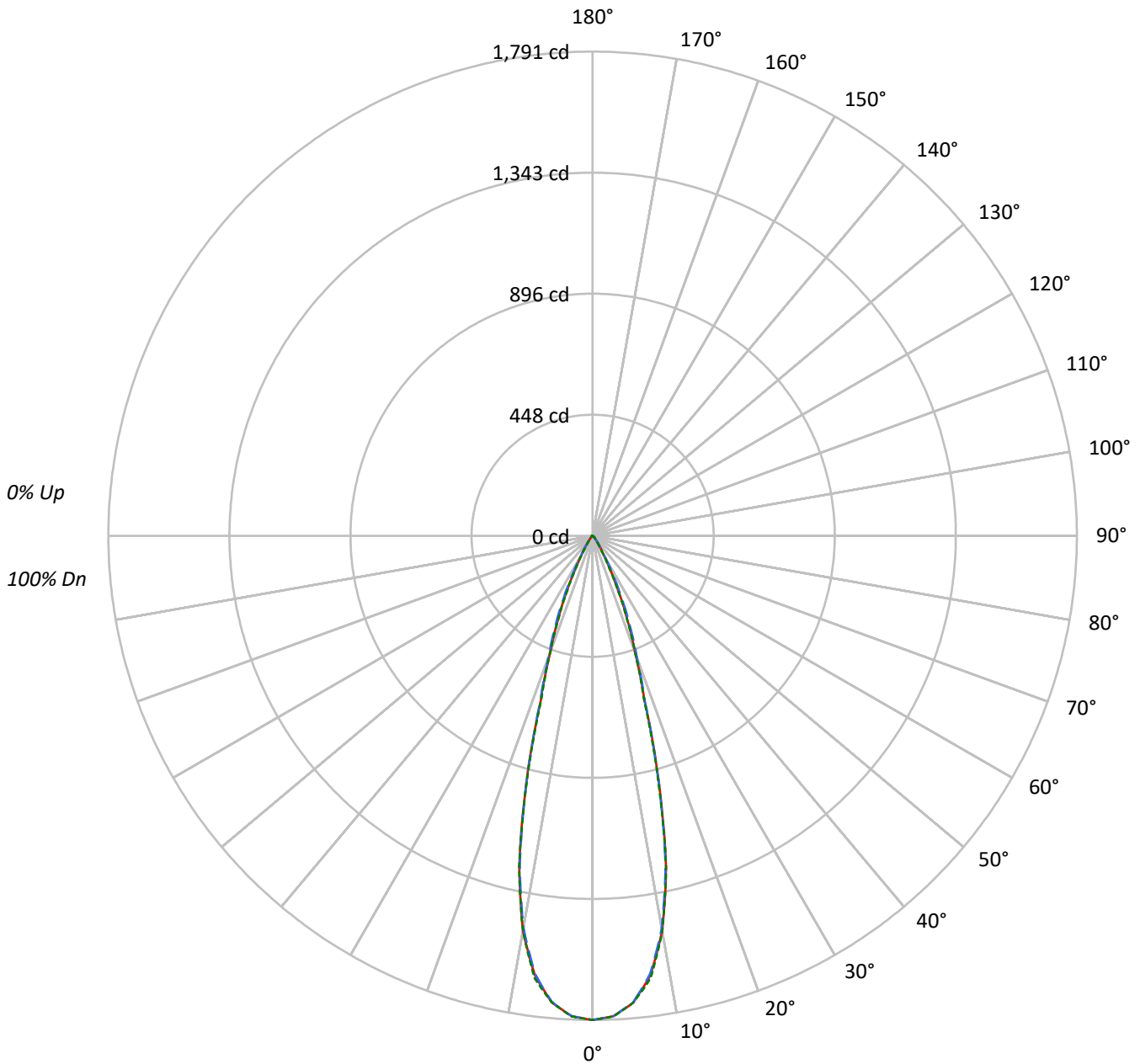
Downlight



TEST NUMBER: P758201

CATALOG NUMBER: LD6D05D010-EU6DR300210IC9050-6LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P758201

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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 | | | | | | 100 | | | | | | | | | | | | | |
| 1 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | 96 | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | 92 | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | 89 | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | 85 | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | 82 | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | 79 | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | 77 | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | 74 | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | 72 | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | 69 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 137082 | 137082 | 137082 |
| 5° | 133149 | 132995 | 133156 |
| 10° | 115327 | 114511 | 115304 |
| 15° | 75250 | 74846 | 74465 |
| 20° | 37413 | 38822 | 37364 |
| 25° | 18851 | 21249 | 18462 |
| 30° | 7548 | 8220 | 6576 |
| 35° | 3504 | 3355 | 2813 |
| 40° | 1509 | 1679 | 1429 |
| 45° | 1072 | 1321 | 1072 |
| 50° | 369 | 965 | 393 |
| 55° | 214 | 400 | 227 |
| 60° | 153 | 168 | 153 |
| 65° | 91 | 91 | 91 |
| 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: 1321 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 157.5 | 28.3 |
| 10°-20° | 253.6 | 45.5 |
| 20°-30° | 109.6 | 19.7 |
| 30°-40° | 25.0 | 4.5 |
| 40°-50° | 8.6 | 1.5 |
| 50°-60° | 2.1 | 0.4 |
| 60°-70° | 0.5 | 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° | 520.7 | 93.5 |
| 0°-40° | 545.7 | 98.0 |
| 0°-60° | 556.4 | 99.9 |
| 0°-90° | 557.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 557.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1791 | 1791 | 1791 | 1791 | 1791 | |
| 5° | 1733 | 1731 | 1731 | 1734 | 1733 | 158 |
| 15° | 950 | 938 | 944 | 941 | 940 | 254 |
| 25° | 223 | 232 | 252 | 226 | 219 | 107 |
| 35° | 38 | 38 | 36 | 36 | 30 | 25 |
| 45° | 10 | 12 | 12 | 12 | 10 | 7 |
| 55° | 2 | 2 | 3 | 2 | 2 | 2 |
| 65° | 0 | 0 | 0 | 0 | 0 | 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° | 1790.9 | 1790.9 | 1790.9 | 1790.9 | 1790.9 |
| 2.5° | 1779.1 | 1777.9 | 1778.6 | 1779.4 | 1779.8 |
| 5° | 1732.9 | 1731.2 | 1730.9 | 1734.5 | 1733.0 |
| 7.5° | 1639.8 | 1637.4 | 1633.8 | 1642.0 | 1649.6 |
| 10° | 1483.8 | 1481.2 | 1473.3 | 1477.2 | 1483.5 |
| 12.5° | 1253.5 | 1245.0 | 1244.9 | 1257.1 | 1255.4 |
| 15° | 949.6 | 938.1 | 944.5 | 941.4 | 939.7 |
| 17.5° | 638.6 | 634.1 | 642.6 | 640.0 | 629.0 |
| 20° | 459.3 | 460.5 | 476.6 | 468.5 | 458.7 |
| 22.5° | 335.2 | 339.3 | 358.4 | 337.6 | 329.9 |
| 25° | 223.2 | 231.6 | 251.6 | 225.7 | 218.6 |
| 27.5° | 137.3 | 141.1 | 161.5 | 135.5 | 131.6 |
| 30° | 85.4 | 83.4 | 93.0 | 79.8 | 74.4 |
| 32.5° | 56.0 | 53.6 | 56.6 | 50.8 | 46.4 |
| 35° | 37.5 | 38.3 | 35.9 | 35.6 | 30.1 |
| 37.5° | 23.4 | 26.9 | 23.7 | 25.3 | 19.4 |
| 40° | 15.1 | 19.5 | 16.8 | 18.6 | 14.3 |
| 42.5° | 12.4 | 15.0 | 13.8 | 14.7 | 12.7 |
| 45° | 9.9 | 12.2 | 12.2 | 12.2 | 9.9 |
| 47.5° | 5.4 | 8.2 | 10.5 | 8.4 | 5.8 |
| 50° | 3.1 | 4.1 | 8.1 | 4.3 | 3.3 |
| 52.5° | 2.1 | 2.3 | 5.6 | 2.5 | 2.2 |
| 55° | 1.6 | 1.7 | 3.0 | 1.8 | 1.7 |
| 57.5° | 1.2 | 1.3 | 1.6 | 1.3 | 1.2 |
| 60° | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 |
| 62.5° | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 |
| 65° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 67.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





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

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