

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: P758204

Luminaire Tested: LD6D05D010-EU6DR300210IC9050-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P758204  
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-EU6DR300210IC9050-6LBDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 617.2 lumens  
Efficiency: N/A  
Efficacy: 82.3 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<sub>in</sub>): 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



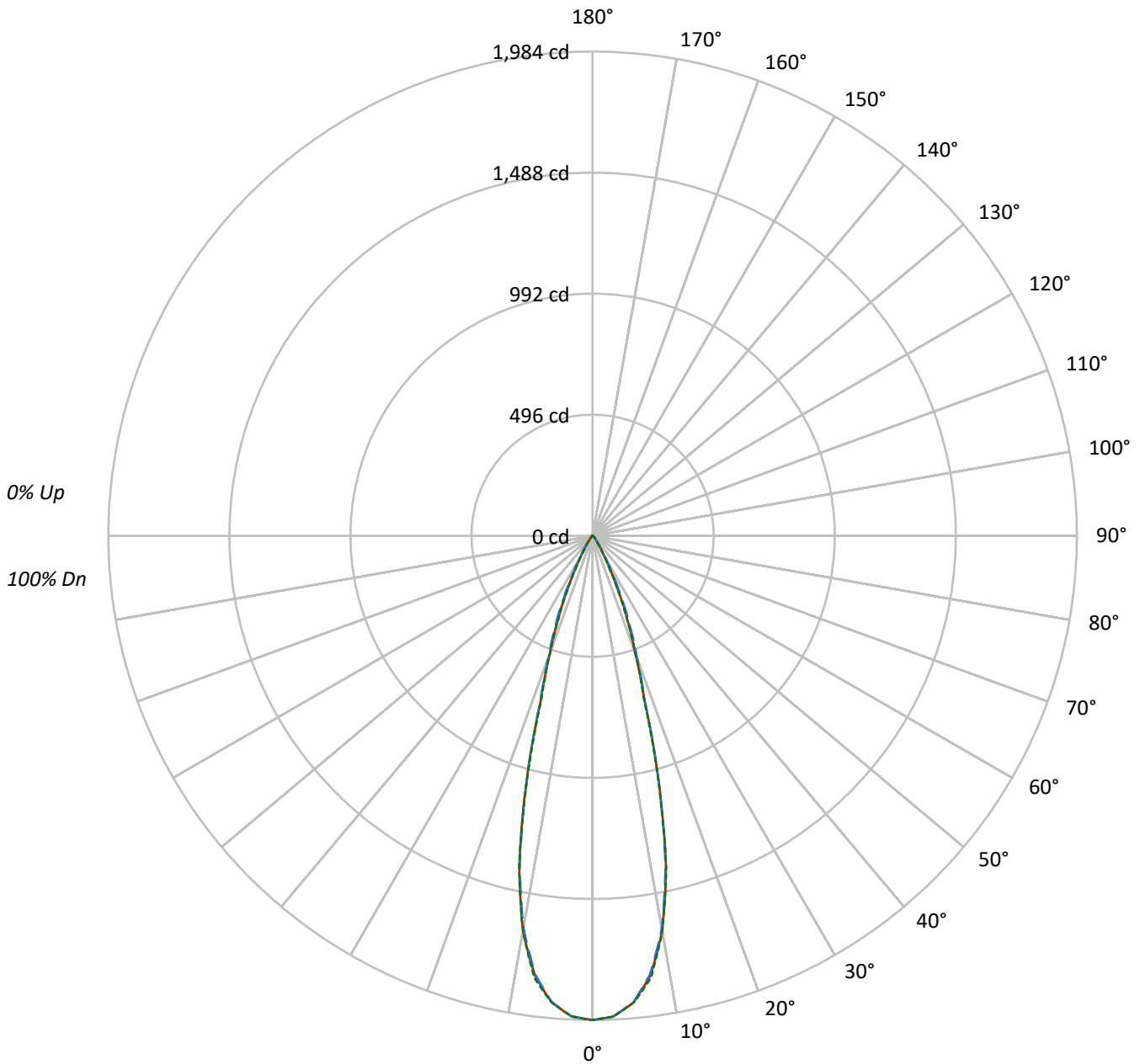
Downlight



TEST NUMBER: P758204

CATALOG NUMBER: LD6D05D010-EU6DR300210IC9050-6LBDP1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P758204

CATALOG NUMBER: LD6D05D010-EU6DR300210IC9050-6LBDP1MW

**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°  | 151893 | 151893 | 151893 |
| 5°  | 147532 | 147356 | 147540 |
| 10° | 127786 | 126885 | 127755 |
| 15° | 83372  | 82928  | 82508  |
| 20° | 41461  | 43009  | 41404  |
| 25° | 20886  | 23555  | 20455  |
| 30° | 8361   | 9112   | 7283   |
| 35° | 3878   | 3719   | 3112   |
| 40° | 1669   | 1859   | 1579   |
| 45° | 1180   | 1461   | 1191   |
| 50° | 405    | 1060   | 429    |
| 55° | 240    | 440    | 240    |
| 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: 1461 cd/sqm



TEST NUMBER: P758204

CATALOG NUMBER: LD6D05D010-EU6DR300210IC9050-6LBDP1MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 174.5  | 28.3      |
| 10°-20°   | 281.0  | 45.5      |
| 20°-30°   | 121.4  | 19.7      |
| 30°-40°   | 27.7   | 4.5       |
| 40°-50°   | 9.5    | 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°    | 577.0  | 93.5      |
| 0°-40°    | 604.7  | 98.0      |
| 0°-60°    | 616.5  | 99.9      |
| 0°-90°    | 617.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 617.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1984 | 1984  | 1984 | 1984  | 1984 |      |
| 5°  | 1920 | 1918  | 1918 | 1922  | 1920 | 175  |
| 15° | 1052 | 1039  | 1046 | 1043  | 1041 | 282  |
| 25° | 247  | 257   | 279  | 250   | 242  | 118  |
| 35° | 42   | 42    | 40   | 40    | 33   | 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    |      |



TEST NUMBER: P758204

CATALOG NUMBER: LD6D05D010-EU6DR300210IC9050-6LBDP1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1984.4 | 1984.4 | 1984.4 | 1984.4 | 1984.4 |
| 2.5°  | 1971.2 | 1969.9 | 1970.7 | 1971.6 | 1972.0 |
| 5°    | 1920.1 | 1918.2 | 1917.8 | 1921.8 | 1920.2 |
| 7.5°  | 1816.9 | 1814.3 | 1810.3 | 1819.3 | 1827.8 |
| 10°   | 1644.1 | 1641.2 | 1632.5 | 1636.8 | 1643.7 |
| 12.5° | 1388.9 | 1379.5 | 1379.3 | 1392.9 | 1391.1 |
| 15°   | 1052.1 | 1039.4 | 1046.5 | 1043.1 | 1041.2 |
| 17.5° | 707.5  | 702.7  | 712.0  | 709.2  | 697.0  |
| 20°   | 509.0  | 510.2  | 528.0  | 519.1  | 508.3  |
| 22.5° | 371.4  | 376.0  | 397.1  | 374.0  | 365.5  |
| 25°   | 247.3  | 256.6  | 278.9  | 250.1  | 242.2  |
| 27.5° | 152.1  | 156.4  | 178.9  | 150.1  | 145.9  |
| 30°   | 94.6   | 92.5   | 103.1  | 88.5   | 82.4   |
| 32.5° | 62.1   | 59.4   | 62.7   | 56.3   | 51.5   |
| 35°   | 41.5   | 42.4   | 39.8   | 39.5   | 33.3   |
| 37.5° | 25.9   | 29.8   | 26.3   | 28.1   | 21.4   |
| 40°   | 16.7   | 21.7   | 18.6   | 20.6   | 15.8   |
| 42.5° | 13.8   | 16.7   | 15.3   | 16.3   | 14.0   |
| 45°   | 10.9   | 13.5   | 13.5   | 13.5   | 11.0   |
| 47.5° | 6.0    | 9.1    | 11.6   | 9.3    | 6.4    |
| 50°   | 3.4    | 4.6    | 8.9    | 4.8    | 3.6    |
| 52.5° | 2.3    | 2.6    | 6.1    | 2.8    | 2.5    |
| 55°   | 1.8    | 1.8    | 3.3    | 1.9    | 1.8    |
| 57.5° | 1.4    | 1.5    | 1.8    | 1.5    | 1.4    |
| 60°   | 1.1    | 1.1    | 1.3    | 1.1    | 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



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)