

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: P758162

Luminaire Tested: LD6D05D010-EU6DR300210IC9030-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P758162  
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-EU6DR300210IC9030-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 519.5 lumens  
Efficiency: N/A  
Efficacy: 69.3 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



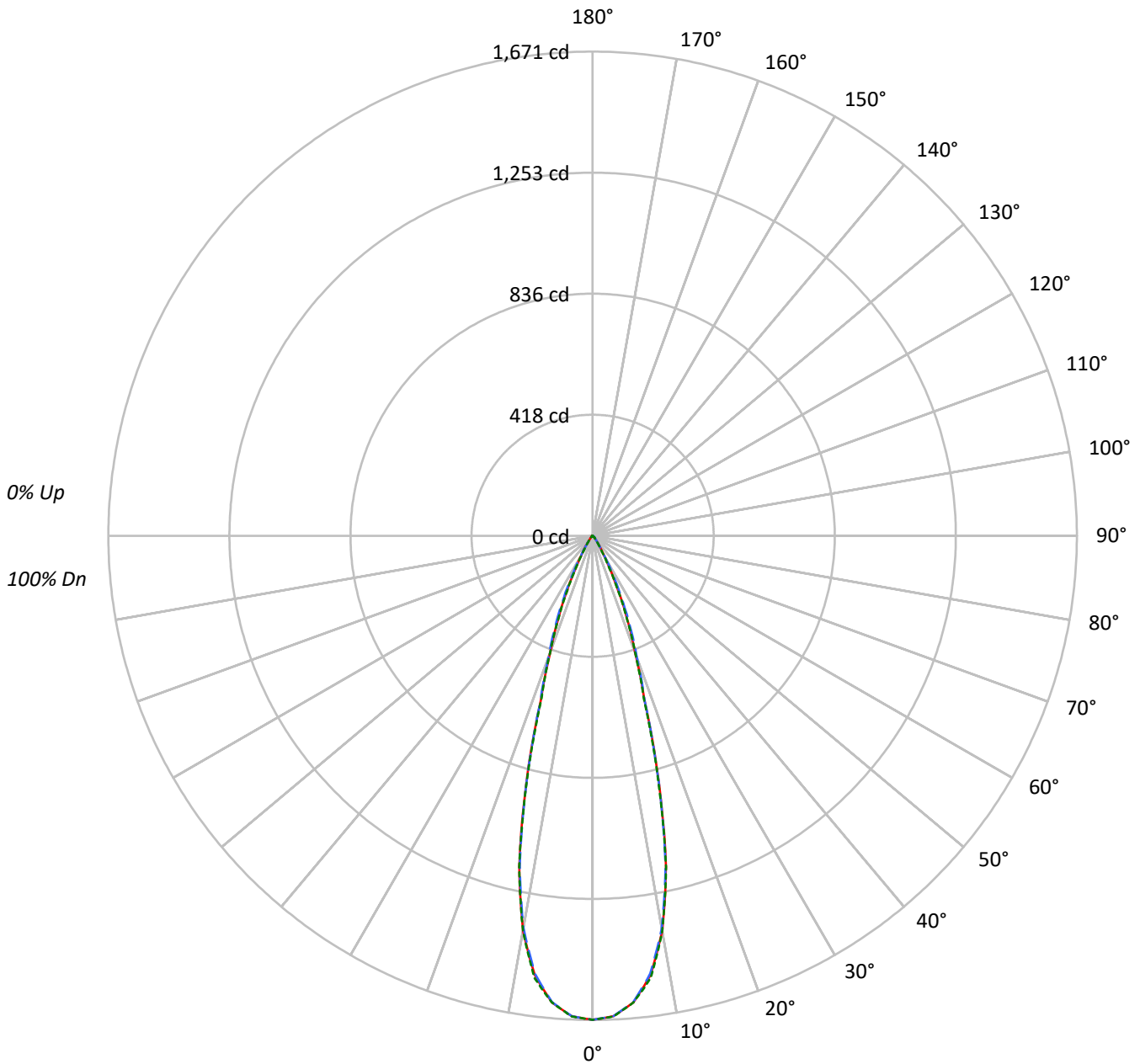
Downlight



TEST NUMBER: P758162

CATALOG NUMBER: LD6D05D010-EU6DR300210IC9030-6LBDP1B

### Luminous Intensity Polar Plot





TEST NUMBER: P758162

CATALOG NUMBER: LD6D05D010-EU6DR300210IC9030-6LBDP1B

**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 | 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°  | 127873 | 127873 | 127873 |
| 5°  | 124197 | 124051 | 124205 |
| 10° | 107578 | 106816 | 107547 |
| 15° | 70186  | 69814  | 69465  |
| 20° | 34904  | 36215  | 34855  |
| 25° | 17584  | 19822  | 17221  |
| 30° | 7035   | 7672   | 6134   |
| 35° | 3261   | 3130   | 2626   |
| 40° | 1409   | 1559   | 1329   |
| 45° | 996    | 1234   | 1007   |
| 50° | 345    | 905    | 357    |
| 55° | 200    | 374    | 200    |
| 60° | 138    | 168    | 138    |
| 65° | 91     | 91     | 91     |
| 70° | 45     | 45     | 45     |
| 75° | 0      | 30     | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1234 cd/sqm



TEST NUMBER: P758162

CATALOG NUMBER: LD6D05D010-EU6DR300210IC9030-6LBDP1B

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.9  | 28.3      |
| 10°-20°   | 236.6  | 45.5      |
| 20°-30°   | 102.2  | 19.7      |
| 30°-40°   | 23.3   | 4.5       |
| 40°-50°   | 8.0    | 1.5       |
| 50°-60°   | 2.0    | 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°    | 485.7  | 93.5      |
| 0°-40°    | 509.0  | 98.0      |
| 0°-60°    | 519.0  | 99.9      |
| 0°-90°    | 519.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 519.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1671 | 1671  | 1671 | 1671  | 1671 |      |
| 5°  | 1616 | 1615  | 1614 | 1618  | 1616 | 147  |
| 15° | 886  | 875   | 881  | 878   | 877  | 237  |
| 25° | 208  | 216   | 235  | 211   | 204  | 100  |
| 35° | 35   | 36    | 34   | 33    | 28   | 24   |
| 45° | 9    | 11    | 11   | 11    | 9    | 7    |
| 55° | 2    | 2     | 3    | 2     | 2    | 1    |
| 65° | 0    | 0     | 0    | 0     | 0    | 0    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P758162

CATALOG NUMBER: LD6D05D010-EU6DR300210IC9030-6LBDP1B

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1670.6 | 1670.6 | 1670.6 | 1670.6 | 1670.6 |
| 2.5°  | 1659.5 | 1658.3 | 1659.0 | 1659.8 | 1660.1 |
| 5°    | 1616.4 | 1614.9 | 1614.5 | 1617.9 | 1616.5 |
| 7.5°  | 1529.5 | 1527.4 | 1524.0 | 1531.6 | 1538.8 |
| 10°   | 1384.1 | 1381.6 | 1374.3 | 1377.9 | 1383.7 |
| 12.5° | 1169.3 | 1161.3 | 1161.1 | 1172.6 | 1171.1 |
| 15°   | 885.7  | 875.1  | 881.0  | 878.1  | 876.6  |
| 17.5° | 595.6  | 591.5  | 599.4  | 597.0  | 586.8  |
| 20°   | 428.5  | 429.5  | 444.6  | 437.0  | 427.9  |
| 22.5° | 312.7  | 316.5  | 334.3  | 314.9  | 307.7  |
| 25°   | 208.2  | 216.1  | 234.7  | 210.6  | 203.9  |
| 27.5° | 128.1  | 131.7  | 150.6  | 126.4  | 122.8  |
| 30°   | 79.6   | 77.9   | 86.8   | 74.5   | 69.4   |
| 32.5° | 52.3   | 50.0   | 52.8   | 47.4   | 43.3   |
| 35°   | 34.9   | 35.7   | 33.5   | 33.2   | 28.1   |
| 37.5° | 21.8   | 25.1   | 22.2   | 23.6   | 18.0   |
| 40°   | 14.1   | 18.2   | 15.6   | 17.3   | 13.3   |
| 42.5° | 11.6   | 14.0   | 12.9   | 13.7   | 11.8   |
| 45°   | 9.2    | 11.4   | 11.4   | 11.4   | 9.3    |
| 47.5° | 5.1    | 7.6    | 9.7    | 7.8    | 5.4    |
| 50°   | 2.9    | 3.8    | 7.6    | 4.0    | 3.0    |
| 52.5° | 1.9    | 2.2    | 5.2    | 2.3    | 2.1    |
| 55°   | 1.5    | 1.5    | 2.8    | 1.7    | 1.5    |
| 57.5° | 1.1    | 1.2    | 1.5    | 1.2    | 1.1    |
| 60°   | 0.9    | 0.9    | 1.1    | 1.0    | 0.9    |
| 62.5° | 0.6    | 0.6    | 0.7    | 0.6    | 0.6    |
| 65°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 67.5° | 0.2    | 0.3    | 0.3    | 0.3    | 0.3    |
| 70°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 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)