

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



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: P756928

Luminaire Tested: LD6D02D010-EU6DR150210IC9035-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756928  
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: LD6D02D010-EU6DR150210IC9035-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 386.4 lumens  
Efficiency: N/A  
Efficacy: 75.8 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): 5.1  
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



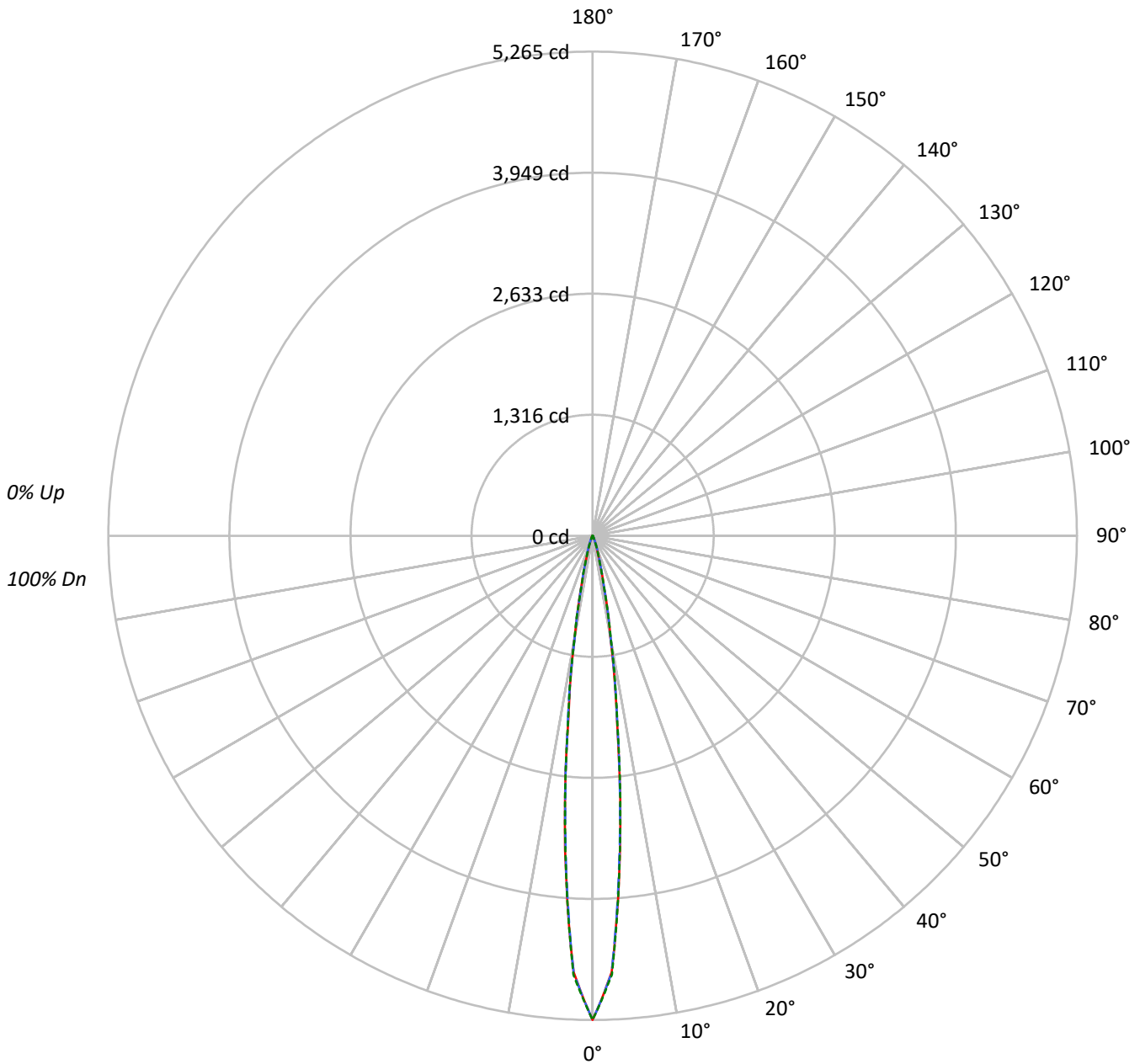
Downlight



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### Luminous Intensity Polar Plot





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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 | 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 | 99  | 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  | 99  | 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  | 88  | 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°  | 592440 | 592440 | 592440 |
| 5°  | 348140 | 343638 | 346351 |
| 10° | 103907 | 104635 | 106231 |
| 15° | 25849  | 26352  | 25536  |
| 20° | 7732   | 8951   | 7896   |
| 25° | 2727   | 3474   | 2758   |
| 30° | 1003   | 1318   | 1018   |
| 35° | 501    | 566    | 487    |
| 40° | 320    | 348    | 320    |
| 45° | 231    | 252    | 231    |
| 50° | 188    | 188    | 188    |
| 55° | 153    | 153    | 153    |
| 60° | 126    | 126    | 126    |
| 65° | 93     | 93     | 93     |
| 70° | 80     | 80     | 80     |
| 75° | 53     | 53     | 68     |
| 80° | 32     | 32     | 32     |
| 85° | 17     | 17     | 17     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 252 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 250.6  | 64.9      |
| 10°-20°   | 103.1  | 26.7      |
| 20°-30°   | 20.5   | 5.3       |
| 30°-40°   | 5.1    | 1.3       |
| 40°-50°   | 2.7    | 0.7       |
| 50°-60°   | 2.0    | 0.5       |
| 60°-70°   | 1.4    | 0.4       |
| 70°-80°   | 0.8    | 0.2       |
| 80°-90°   | 0.2    | 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°    | 374.2  | 96.8      |
| 0°-40°    | 379.3  | 98.2      |
| 0°-60°    | 384.0  | 99.4      |
| 0°-90°    | 386.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 386.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5265 | 5265  | 5265 | 5265  | 5265 |      |
| 5°  | 3426 | 3390  | 3381 | 3405  | 3408 | 250  |
| 15° | 298  | 303   | 303  | 298   | 294  | 102  |
| 25° | 35   | 40    | 45   | 40    | 35   | 18   |
| 35° | 7    | 7     | 8    | 7     | 7    | 5    |
| 45° | 3    | 3     | 4    | 3     | 3    | 3    |
| 55° | 2    | 2     | 2    | 2     | 2    | 2    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 75° | 1    | 1     | 1    | 1     | 1    | 1    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5265.2 | 5265.2 | 5265.2 | 5265.2 | 5265.2 |
| 2.5°  | 4749.4 | 4753.4 | 4755.0 | 4759.6 | 4777.0 |
| 5°    | 3425.6 | 3390.4 | 3381.3 | 3404.7 | 3408.0 |
| 7.5°  | 2029.2 | 2036.3 | 2062.4 | 2068.2 | 2047.3 |
| 10°   | 1113.6 | 1122.7 | 1121.4 | 1129.4 | 1138.5 |
| 12.5° | 569.5  | 562.4  | 560.1  | 569.3  | 556.6  |
| 15°   | 297.6  | 303.1  | 303.4  | 298.0  | 294.0  |
| 17.5° | 160.0  | 166.5  | 177.2  | 168.5  | 155.1  |
| 20°   | 94.5   | 100.3  | 109.4  | 102.3  | 96.5   |
| 22.5° | 58.4   | 63.1   | 69.5   | 64.0   | 59.3   |
| 25°   | 35.0   | 39.7   | 44.6   | 39.5   | 35.4   |
| 27.5° | 20.7   | 24.7   | 27.9   | 24.5   | 20.5   |
| 30°   | 13.4   | 15.6   | 17.6   | 15.4   | 13.6   |
| 32.5° | 9.4    | 10.3   | 11.1   | 10.3   | 9.4    |
| 35°   | 6.9    | 7.4    | 7.8    | 7.4    | 6.7    |
| 37.5° | 5.3    | 5.8    | 6.0    | 5.6    | 5.1    |
| 40°   | 4.5    | 4.7    | 4.9    | 4.7    | 4.5    |
| 42.5° | 3.8    | 4.0    | 4.0    | 4.0    | 3.8    |
| 45°   | 3.3    | 3.3    | 3.6    | 3.3    | 3.3    |
| 47.5° | 2.9    | 2.9    | 3.1    | 2.9    | 2.9    |
| 50°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 52.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 55°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 57.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 60°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 62.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 65°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 67.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 70°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 72.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 75°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.9    |
| 77.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 80°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 82.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 85°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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Scaled Data Report



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Scaled Data Report







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

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