

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: P761967

Luminaire Tested: LD6D20D010-EU6DR1515309035-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P761967  
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: LD6D20D010-EU6DR1515309035-6LBDP1LI  
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 2146.9 lumens  
Efficiency: N/A  
Efficacy: 92.9 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): 23.1  
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



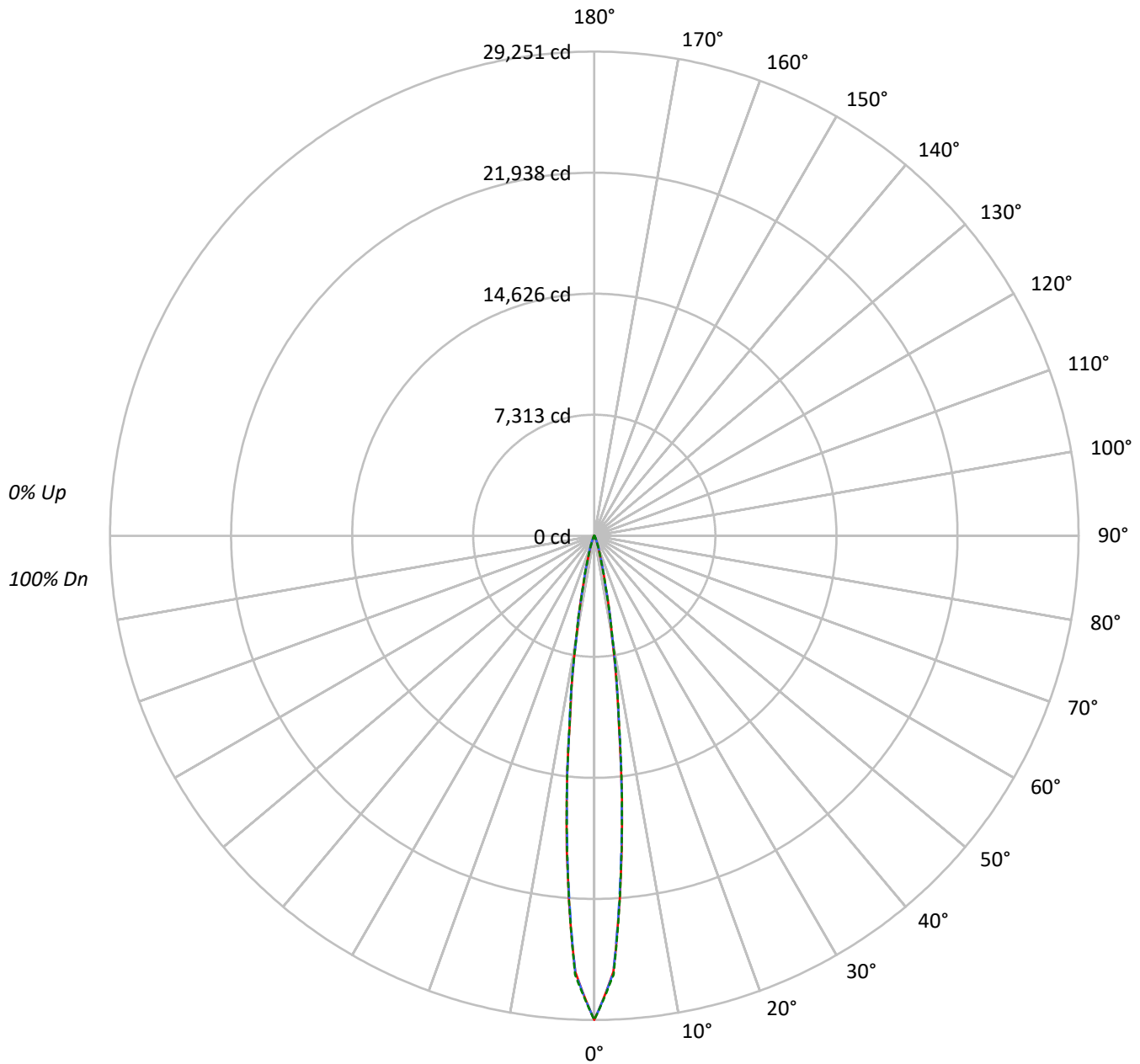
Downlight



TEST NUMBER: P761967

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 |  | 104 | 103 | 103 |  | 101 |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 |  | 102 | 101 | 100 |  | 100 |
| 3   | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99  |  | 100 | 99  | 97  |  | 98  |
| 4   | 108 | 103 | 100 | 98  | 106 | 102 | 99  | 97  | 100 | 98  | 96  |  | 99  | 97  | 95  |  | 97  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 98  | 96  | 94  |  | 97  | 95  | 93  |  | 96  |
| 6   | 104 | 99  | 95  | 93  | 102 | 98  | 95  | 93  | 97  | 94  | 92  |  | 96  | 93  | 92  |  | 95  |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  |  | 94  | 92  | 90  |  | 93  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  |  | 93  | 91  | 89  |  | 92  |
| 9   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  |  | 92  | 89  | 88  |  | 91  |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 89  | 87  |  | 91  | 88  | 87  |  | 90  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 3291276 | 3291276 | 3291276 |
| 5°  | 1934110 | 1909068 | 1924160 |
| 10° | 577238  | 581288  | 590180  |
| 15° | 143583  | 146380  | 141863  |
| 20° | 42957   | 49748   | 43873   |
| 25° | 15144   | 19296   | 15339   |
| 30° | 5564    | 7323    | 5654    |
| 35° | 2789    | 3144    | 2694    |
| 40° | 1761    | 1932    | 1761    |
| 45° | 1302    | 1386    | 1302    |
| 50° | 1036    | 1036    | 1036    |
| 55° | 863     | 863     | 863     |
| 60° | 695     | 695     | 695     |
| 65° | 528     | 528     | 528     |
| 70° | 453     | 453     | 453     |
| 75° | 280     | 280     | 378     |
| 80° | 197     | 197     | 197     |
| 85° | 100     | 100     | 100     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1386 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1392.4 | 64.9      |
| 10°-20°   | 572.7  | 26.7      |
| 20°-30°   | 113.8  | 5.3       |
| 30°-40°   | 28.4   | 1.3       |
| 40°-50°   | 14.9   | 0.7       |
| 50°-60°   | 11.1   | 0.5       |
| 60°-70°   | 7.8    | 0.4       |
| 70°-80°   | 4.5    | 0.2       |
| 80°-90°   | 1.3    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 2078.9 | 96.8      |
| 0°-40°    | 2107.3 | 98.2      |
| 0°-60°    | 2133.3 | 99.4      |
| 0°-90°    | 2146.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2146.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 29251 | 29251 | 29251 | 29251 | 29251 |      |
| 5°  | 19031 | 18835 | 18785 | 18915 | 18933 | 1390 |
| 15° | 1653  | 1684  | 1685  | 1656  | 1633  | 567  |
| 25° | 194   | 220   | 248   | 219   | 197   | 102  |
| 35° | 38    | 41    | 43    | 41    | 37    | 26   |
| 45° | 19    | 19    | 20    | 19    | 19    | 15   |
| 55° | 12    | 12    | 12    | 12    | 12    | 11   |
| 65° | 7     | 7     | 7     | 7     | 7     | 8    |
| 75° | 4     | 4     | 4     | 4     | 5     | 4    |
| 85° | 1     | 1     | 1     | 1     | 1     | 1    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 29250.6 | 29250.6 | 29250.6 | 29250.6 | 29250.6 |
| 2.5°  | 26385.2 | 26407.5 | 26416.1 | 26442.2 | 26538.7 |
| 5°    | 19031.1 | 18835.4 | 18784.7 | 18914.7 | 18933.2 |
| 7.5°  | 11273.3 | 11312.9 | 11457.8 | 11490.0 | 11373.6 |
| 10°   | 6186.4  | 6237.2  | 6229.8  | 6274.3  | 6325.1  |
| 12.5° | 3163.8  | 3124.2  | 3111.8  | 3162.6  | 3092.0  |
| 15°   | 1653.1  | 1684.1  | 1685.3  | 1655.6  | 1633.3  |
| 17.5° | 889.1   | 925.0   | 984.4   | 936.1   | 861.8   |
| 20°   | 525.0   | 557.2   | 608.0   | 568.4   | 536.2   |
| 22.5° | 324.4   | 350.4   | 386.3   | 355.4   | 329.4   |
| 25°   | 194.4   | 220.4   | 247.7   | 219.2   | 196.9   |
| 27.5° | 115.2   | 137.4   | 154.8   | 136.2   | 113.9   |
| 30°   | 74.3    | 86.7    | 97.8    | 85.4    | 75.5    |
| 32.5° | 52.0    | 57.0    | 61.9    | 57.0    | 52.0    |
| 35°   | 38.4    | 40.9    | 43.3    | 40.9    | 37.1    |
| 37.5° | 29.7    | 32.2    | 33.4    | 31.0    | 28.5    |
| 40°   | 24.8    | 26.0    | 27.2    | 26.0    | 24.8    |
| 42.5° | 21.1    | 22.3    | 22.3    | 22.3    | 21.1    |
| 45°   | 18.6    | 18.6    | 19.8    | 18.6    | 18.6    |
| 47.5° | 16.1    | 16.1    | 17.3    | 16.1    | 16.1    |
| 50°   | 14.9    | 14.9    | 14.9    | 14.9    | 14.9    |
| 52.5° | 13.6    | 13.6    | 13.6    | 13.6    | 13.6    |
| 55°   | 12.4    | 12.4    | 12.4    | 12.4    | 12.4    |
| 57.5° | 11.1    | 11.1    | 11.1    | 11.1    | 11.1    |
| 60°   | 9.9     | 9.9     | 9.9     | 9.9     | 9.9     |
| 62.5° | 8.7     | 8.7     | 8.7     | 8.7     | 8.7     |
| 65°   | 7.4     | 7.4     | 7.4     | 7.4     | 7.4     |
| 67.5° | 7.4     | 7.4     | 7.4     | 7.4     | 7.4     |
| 70°   | 6.2     | 6.2     | 6.2     | 6.2     | 6.2     |
| 72.5° | 5.0     | 5.0     | 5.0     | 5.0     | 5.0     |
| 75°   | 3.7     | 3.7     | 3.7     | 3.7     | 5.0     |
| 77.5° | 3.7     | 3.7     | 3.7     | 3.7     | 3.7     |
| 80°   | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     |
| 82.5° | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     |
| 85°   | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     |
| 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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— 0°-180°    - - 45°-225°    - - - 90°-270°







(END OF REPORT)