

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: P763803

Luminaire Tested: LD6D30D010-EU6DR1515309024-6LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P763803  
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: LD6D30D010-EU6DR1515309024-6LBS1H  
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2955.9 lumens  
Efficiency: N/A  
Efficacy: 101.9 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): 29  
Input Voltage (V): NR  
Input Current (Ain): 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



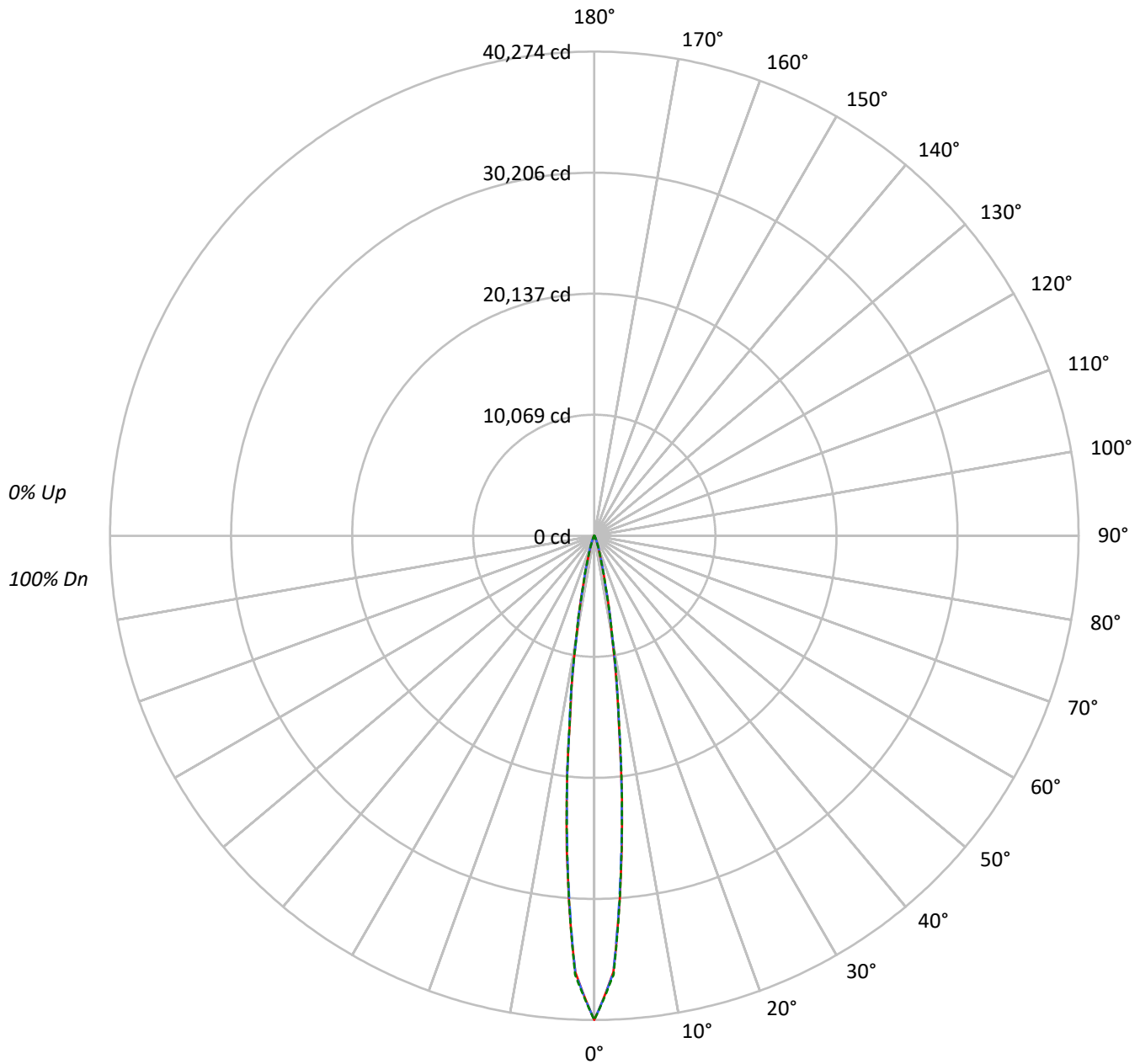
Downlight



TEST NUMBER: P763803

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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°  | 4531617 | 4531617 | 4531617 |
| 5°  | 2662992 | 2628510 | 2649303 |
| 10° | 794775  | 800346  | 812597  |
| 15° | 197695  | 201543  | 195324  |
| 20° | 59150   | 68494   | 60402   |
| 25° | 20854   | 26564   | 21119   |
| 30° | 7660    | 10087   | 7788    |
| 35° | 3842    | 4335    | 3711    |
| 40° | 2422    | 2663    | 2422    |
| 45° | 1792    | 1911    | 1792    |
| 50° | 1425    | 1425    | 1425    |
| 55° | 1183    | 1183    | 1183    |
| 60° | 955     | 955     | 955     |
| 65° | 728     | 728     | 728     |
| 70° | 622     | 622     | 622     |
| 75° | 385     | 385     | 514     |
| 80° | 268     | 268     | 268     |
| 85° | 141     | 141     | 141     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1911 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1917.1 | 64.9      |
| 10°-20°   | 788.6  | 26.7      |
| 20°-30°   | 156.6  | 5.3       |
| 30°-40°   | 39.1   | 1.3       |
| 40°-50°   | 20.6   | 0.7       |
| 50°-60°   | 15.2   | 0.5       |
| 60°-70°   | 10.7   | 0.4       |
| 70°-80°   | 6.1    | 0.2       |
| 80°-90°   | 1.8    | 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°    | 2862.3 | 96.8      |
| 0°-40°    | 2901.4 | 98.2      |
| 0°-60°    | 2937.2 | 99.4      |
| 0°-90°    | 2955.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2955.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 40274 | 40274 | 40274 | 40274 | 40274 |      |
| 5°  | 26203 | 25934 | 25864 | 26043 | 26068 | 1913 |
| 15° | 2276  | 2319  | 2320  | 2280  | 2249  | 780  |
| 25° | 268   | 304   | 341   | 302   | 271   | 141  |
| 35° | 53    | 56    | 60    | 56    | 51    | 36   |
| 45° | 26    | 26    | 27    | 26    | 26    | 20   |
| 55° | 17    | 17    | 17    | 17    | 17    | 15   |
| 65° | 10    | 10    | 10    | 10    | 10    | 11   |
| 75° | 5     | 5     | 5     | 5     | 7     | 6    |
| 85° | 2     | 2     | 2     | 2     | 2     | 2    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 40273.9 | 40273.9 | 40273.9 | 40273.9 | 40273.9 |
| 2.5°  | 36328.7 | 36359.4 | 36371.3 | 36407.1 | 36540.1 |
| 5°    | 26203.1 | 25933.7 | 25863.8 | 26042.9 | 26068.4 |
| 7.5°  | 15521.7 | 15576.3 | 15775.7 | 15820.1 | 15659.8 |
| 10°   | 8517.8  | 8587.7  | 8577.5  | 8638.9  | 8708.8  |
| 12.5° | 4356.1  | 4301.5  | 4284.5  | 4354.4  | 4257.2  |
| 15°   | 2276.1  | 2318.7  | 2320.4  | 2279.5  | 2248.8  |
| 17.5° | 1224.1  | 1273.6  | 1355.4  | 1288.9  | 1186.6  |
| 20°   | 722.9   | 767.2   | 837.1   | 782.6   | 738.2   |
| 22.5° | 446.7   | 482.5   | 531.9   | 489.3   | 453.5   |
| 25°   | 267.7   | 303.5   | 341.0   | 301.8   | 271.1   |
| 27.5° | 158.6   | 189.2   | 213.1   | 187.5   | 156.9   |
| 30°   | 102.3   | 119.3   | 134.7   | 117.6   | 104.0   |
| 32.5° | 71.6    | 78.4    | 85.2    | 78.4    | 71.6    |
| 35°   | 52.9    | 56.3    | 59.7    | 56.3    | 51.1    |
| 37.5° | 40.9    | 44.3    | 46.0    | 42.6    | 39.2    |
| 40°   | 34.1    | 35.8    | 37.5    | 35.8    | 34.1    |
| 42.5° | 29.0    | 30.7    | 30.7    | 30.7    | 29.0    |
| 45°   | 25.6    | 25.6    | 27.3    | 25.6    | 25.6    |
| 47.5° | 22.2    | 22.2    | 23.9    | 22.2    | 22.2    |
| 50°   | 20.5    | 20.5    | 20.5    | 20.5    | 20.5    |
| 52.5° | 18.8    | 18.8    | 18.8    | 18.8    | 18.8    |
| 55°   | 17.0    | 17.0    | 17.0    | 17.0    | 17.0    |
| 57.5° | 15.3    | 15.3    | 15.3    | 15.3    | 15.3    |
| 60°   | 13.6    | 13.6    | 13.6    | 13.6    | 13.6    |
| 62.5° | 11.9    | 11.9    | 11.9    | 11.9    | 11.9    |
| 65°   | 10.2    | 10.2    | 10.2    | 10.2    | 10.2    |
| 67.5° | 10.2    | 10.2    | 10.2    | 10.2    | 10.2    |
| 70°   | 8.5     | 8.5     | 8.5     | 8.5     | 8.5     |
| 72.5° | 6.8     | 6.8     | 6.8     | 6.8     | 6.8     |
| 75°   | 5.1     | 5.1     | 5.1     | 5.1     | 6.8     |
| 77.5° | 5.1     | 5.1     | 5.1     | 5.1     | 5.1     |
| 80°   | 3.4     | 3.4     | 3.4     | 3.4     | 3.4     |
| 82.5° | 3.4     | 3.4     | 3.4     | 3.4     | 3.4     |
| 85°   | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     |
| 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)