

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: P763855

Luminaire Tested: LD6D30D010-EU6DR1515309040-6LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P763855  
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-EU6DR1515309040-6LBS1H  
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3675.7 lumens  
Efficiency: N/A  
Efficacy: 126.7 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



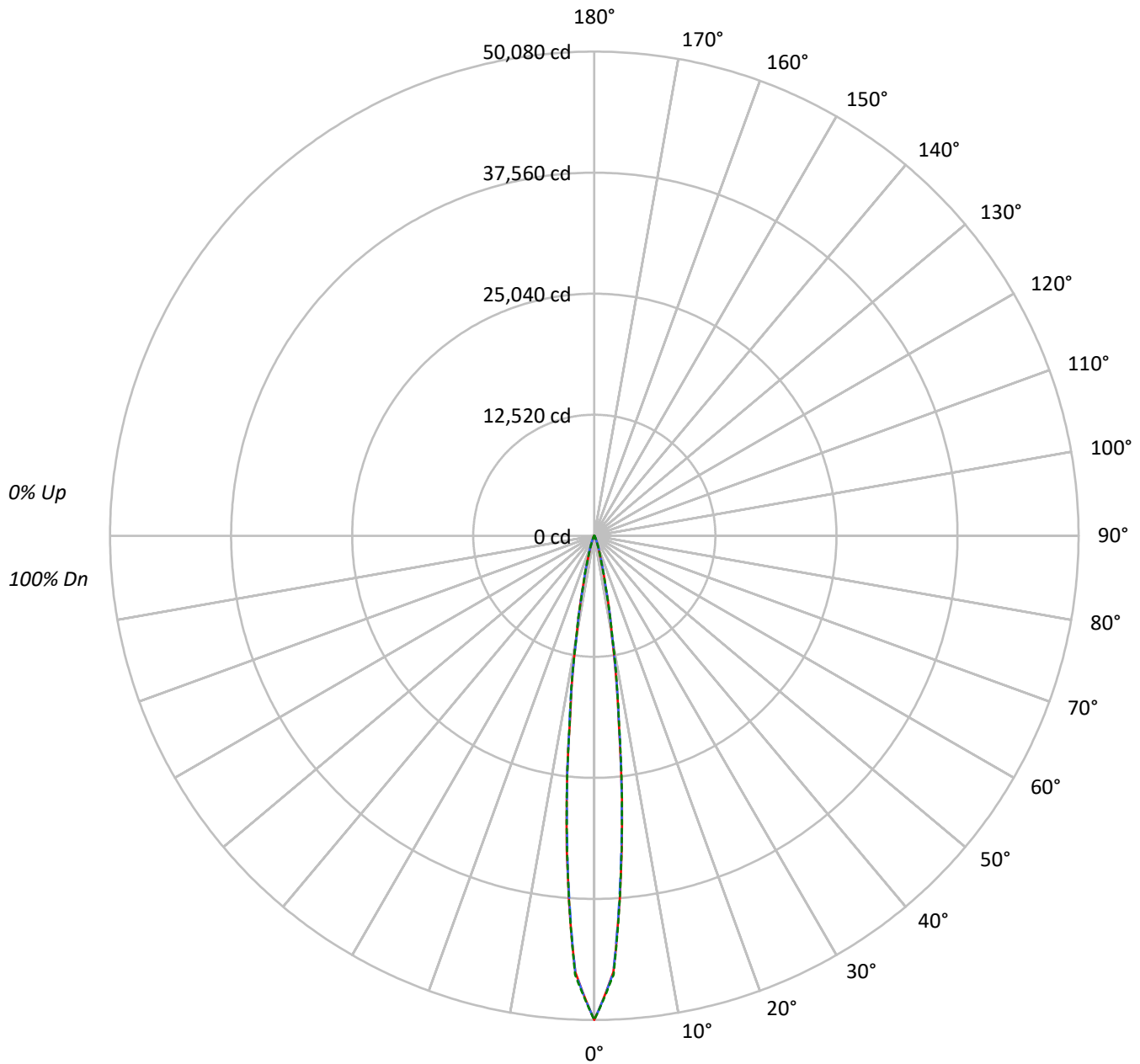
Downlight



TEST NUMBER: P763855

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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  |     |  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 |  | 108 | 107 | 106 |  | 104 | 103 | 103 |  | 101 | 100 | 100 |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 |  | 105 | 103 | 102 |  | 102 | 101 | 100 |  | 100 | 98  | 98  |
| 3   | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 |  | 103 | 100 | 99  |  | 100 | 99  | 97  |  | 98  | 97  | 96  |
| 4   | 108 | 103 | 100 | 98  | 106 | 102 | 99  | 97  |  | 100 | 98  | 96  |  | 99  | 97  | 95  |  | 97  | 95  | 94  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  |  | 98  | 96  | 94  |  | 97  | 95  | 93  |  | 96  | 94  | 92  |
| 6   | 104 | 99  | 95  | 93  | 102 | 98  | 95  | 93  |  | 97  | 94  | 92  |  | 96  | 93  | 92  |  | 95  | 93  | 91  |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  |  | 95  | 93  | 91  |  | 94  | 92  | 90  |  | 93  | 91  | 90  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  |  | 94  | 91  | 89  |  | 93  | 91  | 89  |  | 92  | 90  | 89  |
| 9   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  |  | 92  | 90  | 88  |  | 92  | 89  | 88  |  | 91  | 89  | 88  |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  |  | 91  | 89  | 87  |  | 91  | 88  | 87  |  | 90  | 88  | 86  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 5635044 | 5635044 | 5635044 |
| 5°  | 3311415 | 3268538 | 3294392 |
| 10° | 988305  | 995228  | 1010456 |
| 15° | 245831  | 250617  | 242886  |
| 20° | 73551   | 85178   | 75113   |
| 25° | 25933   | 33030   | 26260   |
| 30° | 9525    | 12543   | 9682    |
| 35° | 4771    | 5388    | 4619    |
| 40° | 3011    | 3309    | 3011    |
| 45° | 2226    | 2373    | 2226    |
| 50° | 1766    | 1766    | 1766    |
| 55° | 1476    | 1476    | 1476    |
| 60° | 1194    | 1194    | 1194    |
| 65° | 906     | 906     | 906     |
| 70° | 775     | 775     | 775     |
| 75° | 484     | 484     | 642     |
| 80° | 331     | 331     | 331     |
| 85° | 174     | 174     | 174     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 2373 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2383.9 | 64.9      |
| 10°-20°   | 980.6  | 26.7      |
| 20°-30°   | 194.8  | 5.3       |
| 30°-40°   | 48.6   | 1.3       |
| 40°-50°   | 25.6   | 0.7       |
| 50°-60°   | 18.9   | 0.5       |
| 60°-70°   | 13.4   | 0.4       |
| 70°-80°   | 7.6    | 0.2       |
| 80°-90°   | 2.3    | 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°    | 3559.3 | 96.8      |
| 0°-40°    | 3607.9 | 98.2      |
| 0°-60°    | 3652.4 | 99.4      |
| 0°-90°    | 3675.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3675.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 50080 | 50080 | 50080 | 50080 | 50080 |      |
| 5°  | 32583 | 32248 | 32162 | 32384 | 32416 | 2379 |
| 15° | 2830  | 2883  | 2885  | 2834  | 2796  | 970  |
| 25° | 333   | 377   | 424   | 375   | 337   | 175  |
| 35° | 66    | 70    | 74    | 70    | 64    | 45   |
| 45° | 32    | 32    | 34    | 32    | 32    | 25   |
| 55° | 21    | 21    | 21    | 21    | 21    | 19   |
| 65° | 13    | 13    | 13    | 13    | 13    | 13   |
| 75° | 6     | 6     | 6     | 6     | 8     | 8    |
| 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°    | 50080.4 | 50080.4 | 50080.4 | 50080.4 | 50080.4 |
| 2.5°  | 45174.6 | 45212.7 | 45227.6 | 45272.1 | 45437.5 |
| 5°    | 32583.4 | 32248.5 | 32161.5 | 32384.1 | 32415.9 |
| 7.5°  | 19301.2 | 19369.0 | 19617.1 | 19672.2 | 19472.9 |
| 10°   | 10591.9 | 10678.8 | 10666.1 | 10742.4 | 10829.3 |
| 12.5° | 5416.8  | 5348.9  | 5327.7  | 5414.7  | 5293.8  |
| 15°   | 2830.3  | 2883.3  | 2885.4  | 2834.5  | 2796.4  |
| 17.5° | 1522.2  | 1583.7  | 1685.5  | 1602.8  | 1475.6  |
| 20°   | 898.9   | 954.0   | 1041.0  | 973.1   | 918.0   |
| 22.5° | 555.5   | 600.0   | 661.5   | 608.5   | 563.9   |
| 25°   | 332.9   | 377.4   | 424.0   | 375.3   | 337.1   |
| 27.5° | 197.2   | 235.3   | 265.0   | 233.2   | 195.0   |
| 30°   | 127.2   | 148.4   | 167.5   | 146.3   | 129.3   |
| 32.5° | 89.0    | 97.5    | 106.0   | 97.5    | 89.0    |
| 35°   | 65.7    | 70.0    | 74.2    | 70.0    | 63.6    |
| 37.5° | 50.9    | 55.1    | 57.2    | 53.0    | 48.8    |
| 40°   | 42.4    | 44.5    | 46.6    | 44.5    | 42.4    |
| 42.5° | 36.0    | 38.2    | 38.2    | 38.2    | 36.0    |
| 45°   | 31.8    | 31.8    | 33.9    | 31.8    | 31.8    |
| 47.5° | 27.6    | 27.6    | 29.7    | 27.6    | 27.6    |
| 50°   | 25.4    | 25.4    | 25.4    | 25.4    | 25.4    |
| 52.5° | 23.3    | 23.3    | 23.3    | 23.3    | 23.3    |
| 55°   | 21.2    | 21.2    | 21.2    | 21.2    | 21.2    |
| 57.5° | 19.1    | 19.1    | 19.1    | 19.1    | 19.1    |
| 60°   | 17.0    | 17.0    | 17.0    | 17.0    | 17.0    |
| 62.5° | 14.8    | 14.8    | 14.8    | 14.8    | 14.8    |
| 65°   | 12.7    | 12.7    | 12.7    | 12.7    | 12.7    |
| 67.5° | 12.7    | 12.7    | 12.7    | 12.7    | 12.7    |
| 70°   | 10.6    | 10.6    | 10.6    | 10.6    | 10.6    |
| 72.5° | 8.5     | 8.5     | 8.5     | 8.5     | 8.5     |
| 75°   | 6.4     | 6.4     | 6.4     | 6.4     | 8.5     |
| 77.5° | 6.4     | 6.4     | 6.4     | 6.4     | 6.4     |
| 80°   | 4.2     | 4.2     | 4.2     | 4.2     | 4.2     |
| 82.5° | 4.2     | 4.2     | 4.2     | 4.2     | 4.2     |
| 85°   | 2.1     | 2.1     | 2.1     | 2.1     | 2.1     |
| 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)