

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: P763798

Luminaire Tested: LD6D30D010-EU6DR1515309024-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P763798  
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-EU6DR1515309024-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2624.2 lumens  
Efficiency: N/A  
Efficacy: 90.5 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



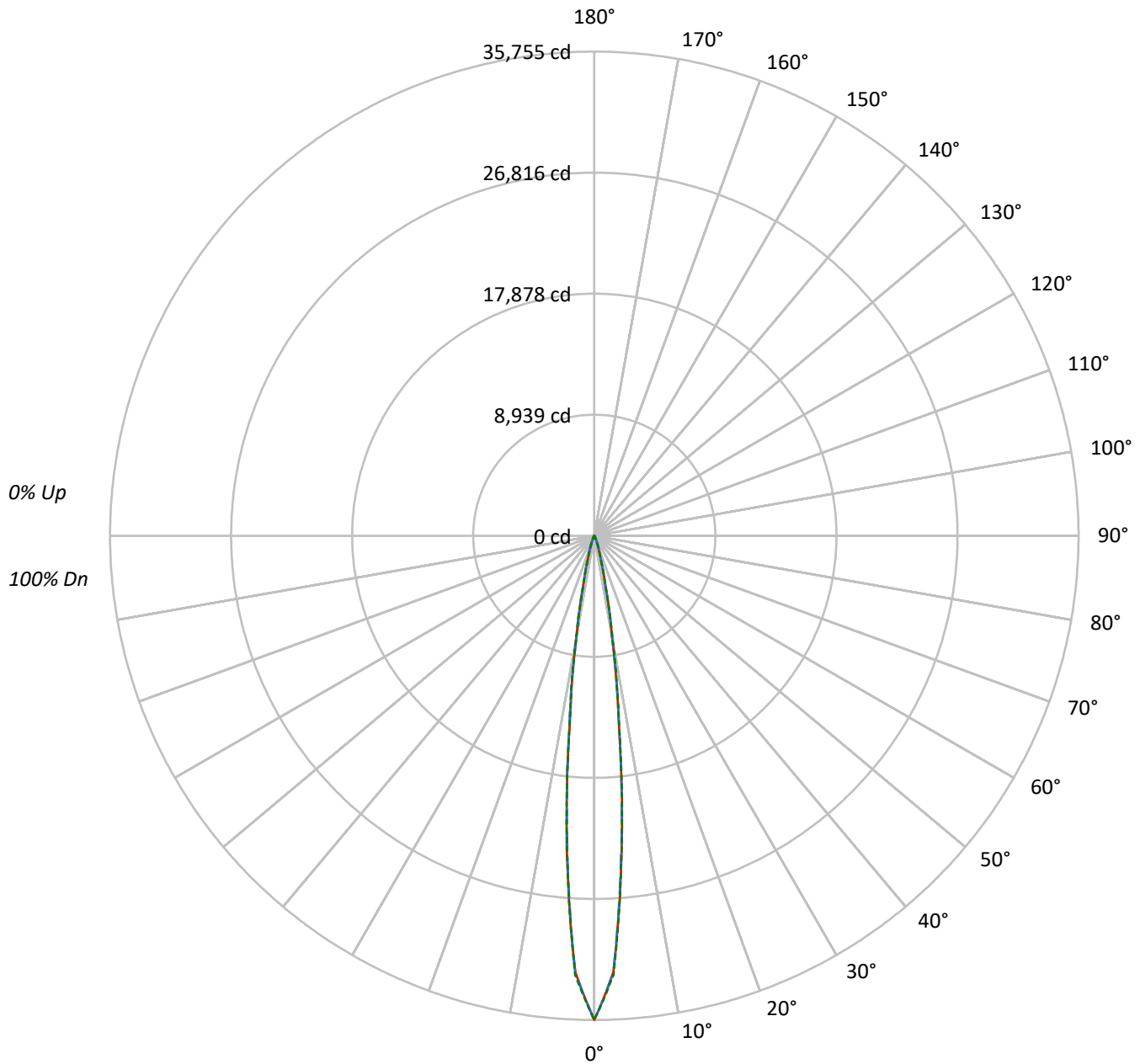
Downlight



TEST NUMBER: P763798

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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°  | 4023128 | 4023128 | 4023128 |
| 5°  | 2364183 | 2333572 | 2352028 |
| 10° | 705601  | 710537  | 721417  |
| 15° | 175512  | 178925  | 173410  |
| 20° | 52514   | 60811   | 53627   |
| 25° | 18509   | 23581   | 18751   |
| 30° | 6799    | 8956    | 6912    |
| 35° | 3406    | 3849    | 3297    |
| 40° | 2152    | 2365    | 2152    |
| 45° | 1589    | 1694    | 1589    |
| 50° | 1266    | 1266    | 1266    |
| 55° | 1051    | 1051    | 1051    |
| 60° | 850     | 850     | 850     |
| 65° | 649     | 649     | 649     |
| 70° | 556     | 556     | 556     |
| 75° | 340     | 340     | 461     |
| 80° | 236     | 236     | 236     |
| 85° | 125     | 125     | 125     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1694 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1702.0 | 64.9      |
| 10°-20°   | 700.1  | 26.7      |
| 20°-30°   | 139.1  | 5.3       |
| 30°-40°   | 34.7   | 1.3       |
| 40°-50°   | 18.2   | 0.7       |
| 50°-60°   | 13.5   | 0.5       |
| 60°-70°   | 9.6    | 0.4       |
| 70°-80°   | 5.4    | 0.2       |
| 80°-90°   | 1.6    | 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°    | 2541.1 | 96.8      |
| 0°-40°    | 2575.8 | 98.2      |
| 0°-60°    | 2607.6 | 99.4      |
| 0°-90°    | 2624.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2624.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 35755 | 35755 | 35755 | 35755 | 35755 |      |
| 5°  | 23263 | 23024 | 22962 | 23121 | 23143 | 1699 |
| 15° | 2021  | 2058  | 2060  | 2024  | 1996  | 693  |
| 25° | 238   | 269   | 303   | 268   | 241   | 125  |
| 35° | 47    | 50    | 53    | 50    | 45    | 32   |
| 45° | 23    | 23    | 24    | 23    | 23    | 18   |
| 55° | 15    | 15    | 15    | 15    | 15    | 14   |
| 65° | 9     | 9     | 9     | 9     | 9     | 10   |
| 75° | 4     | 4     | 4     | 4     | 6     | 5    |
| 85° | 2     | 2     | 2     | 2     | 2     | 2    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



TEST NUMBER: P763798

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 35754.8 | 35754.8 | 35754.8 | 35754.8 | 35754.8 |
| 2.5°  | 32252.3 | 32279.5 | 32290.1 | 32321.9 | 32440.0 |
| 5°    | 23262.9 | 23023.7 | 22961.7 | 23120.6 | 23143.3 |
| 7.5°  | 13780.0 | 13828.5 | 14005.6 | 14044.9 | 13902.6 |
| 10°   | 7562.1  | 7624.1  | 7615.0  | 7669.5  | 7731.6  |
| 12.5° | 3867.3  | 3818.9  | 3803.7  | 3865.8  | 3779.5  |
| 15°   | 2020.7  | 2058.5  | 2060.0  | 2023.7  | 1996.5  |
| 17.5° | 1086.8  | 1130.7  | 1203.3  | 1144.3  | 1053.5  |
| 20°   | 641.8   | 681.1   | 743.2   | 694.8   | 655.4   |
| 22.5° | 396.6   | 428.4   | 472.3   | 434.4   | 402.6   |
| 25°   | 237.6   | 269.4   | 302.7   | 267.9   | 240.7   |
| 27.5° | 140.8   | 168.0   | 189.2   | 166.5   | 139.3   |
| 30°   | 90.8    | 106.0   | 119.6   | 104.4   | 92.3    |
| 32.5° | 63.6    | 69.6    | 75.7    | 69.6    | 63.6    |
| 35°   | 46.9    | 49.9    | 53.0    | 49.9    | 45.4    |
| 37.5° | 36.3    | 39.4    | 40.9    | 37.8    | 34.8    |
| 40°   | 30.3    | 31.8    | 33.3    | 31.8    | 30.3    |
| 42.5° | 25.7    | 27.2    | 27.2    | 27.2    | 25.7    |
| 45°   | 22.7    | 22.7    | 24.2    | 22.7    | 22.7    |
| 47.5° | 19.7    | 19.7    | 21.2    | 19.7    | 19.7    |
| 50°   | 18.2    | 18.2    | 18.2    | 18.2    | 18.2    |
| 52.5° | 16.6    | 16.6    | 16.6    | 16.6    | 16.6    |
| 55°   | 15.1    | 15.1    | 15.1    | 15.1    | 15.1    |
| 57.5° | 13.6    | 13.6    | 13.6    | 13.6    | 13.6    |
| 60°   | 12.1    | 12.1    | 12.1    | 12.1    | 12.1    |
| 62.5° | 10.6    | 10.6    | 10.6    | 10.6    | 10.6    |
| 65°   | 9.1     | 9.1     | 9.1     | 9.1     | 9.1     |
| 67.5° | 9.1     | 9.1     | 9.1     | 9.1     | 9.1     |
| 70°   | 7.6     | 7.6     | 7.6     | 7.6     | 7.6     |
| 72.5° | 6.1     | 6.1     | 6.1     | 6.1     | 6.1     |
| 75°   | 4.5     | 4.5     | 4.5     | 4.5     | 6.1     |
| 77.5° | 4.5     | 4.5     | 4.5     | 4.5     | 4.5     |
| 80°   | 3.0     | 3.0     | 3.0     | 3.0     | 3.0     |
| 82.5° | 3.0     | 3.0     | 3.0     | 3.0     | 3.0     |
| 85°   | 1.5     | 1.5     | 1.5     | 1.5     | 1.5     |
| 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)