

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: P763826

Luminaire Tested: LD6D30D010-EU6DR1515309030-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P763826  
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-EU6DR1515309030-6LBDP1LI  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3379.6 lumens  
Efficiency: N/A  
Efficacy: 116.5 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 (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



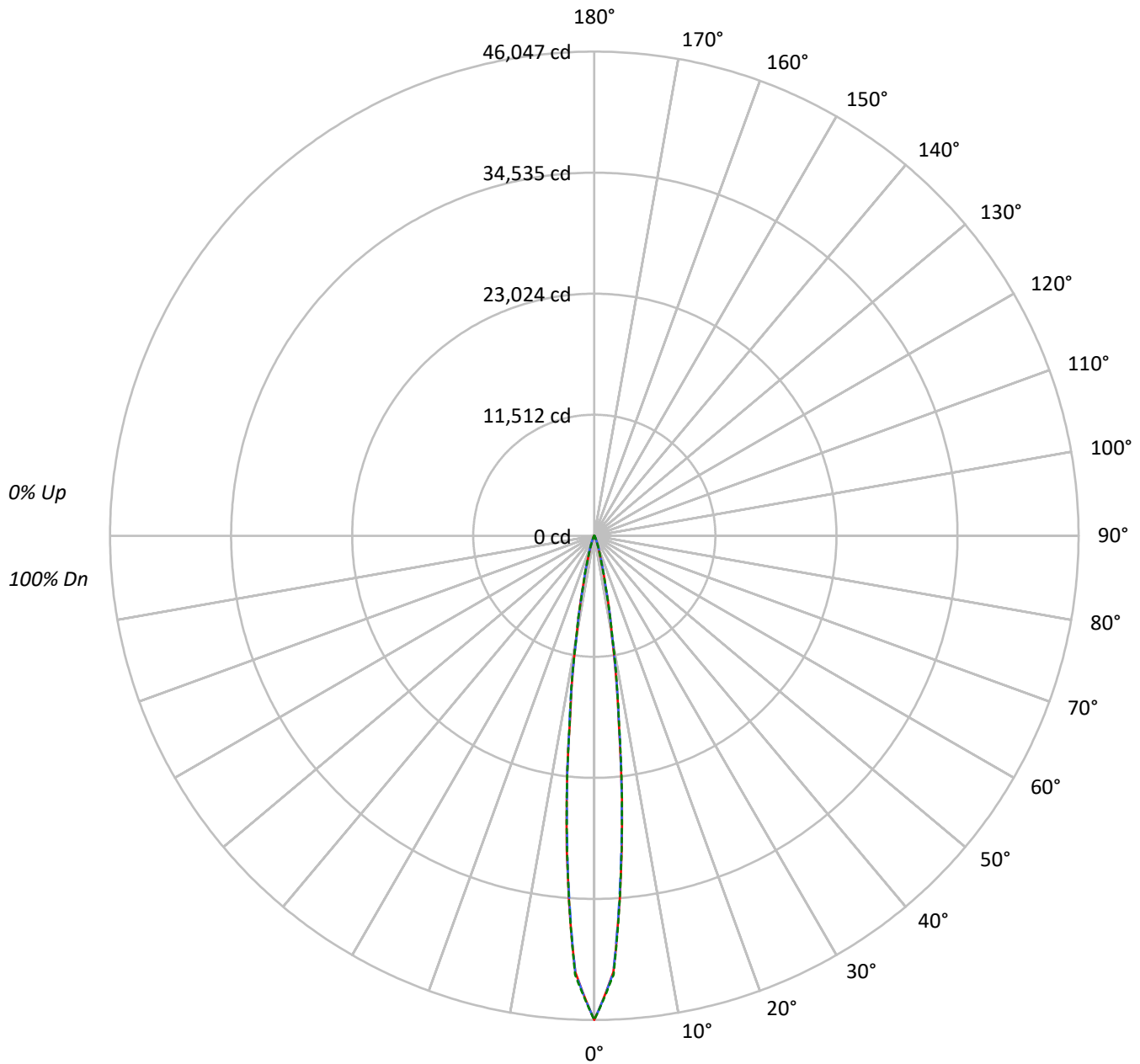
Downlight



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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |  | 20  |     |     |  |     | 20  |     |  |     |     | 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°  | 5181251 | 5181251 | 5181251 |
| 5°  | 3044751 | 3005329 | 3029100 |
| 10° | 908713  | 915086  | 929092  |
| 15° | 226036  | 230440  | 223326  |
| 20° | 67627   | 78313   | 69067   |
| 25° | 23838   | 30373   | 24141   |
| 30° | 8761    | 11532   | 8903    |
| 35° | 4386    | 4953    | 4248    |
| 40° | 2770    | 3047    | 2770    |
| 45° | 2044    | 2184    | 2044    |
| 50° | 1627    | 1627    | 1627    |
| 55° | 1357    | 1357    | 1357    |
| 60° | 1095    | 1095    | 1095    |
| 65° | 835     | 835     | 835     |
| 70° | 709     | 709     | 709     |
| 75° | 438     | 438     | 590     |
| 80° | 307     | 307     | 307     |
| 85° | 158     | 158     | 158     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 2184 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2191.9 | 64.9      |
| 10°-20°   | 901.6  | 26.7      |
| 20°-30°   | 179.1  | 5.3       |
| 30°-40°   | 44.7   | 1.3       |
| 40°-50°   | 23.5   | 0.7       |
| 50°-60°   | 17.4   | 0.5       |
| 60°-70°   | 12.3   | 0.4       |
| 70°-80°   | 7.0    | 0.2       |
| 80°-90°   | 2.1    | 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°    | 3272.6 | 96.8      |
| 0°-40°    | 3317.3 | 98.2      |
| 0°-60°    | 3358.2 | 99.4      |
| 0°-90°    | 3379.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3379.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 46047 | 46047 | 46047 | 46047 | 46047 |      |
| 5°  | 29960 | 29652 | 29572 | 29776 | 29806 | 2188 |
| 15° | 2602  | 2651  | 2653  | 2606  | 2571  | 892  |
| 25° | 306   | 347   | 390   | 345   | 310   | 161  |
| 35° | 60    | 64    | 68    | 64    | 58    | 41   |
| 45° | 29    | 29    | 31    | 29    | 29    | 23   |
| 55° | 20    | 20    | 20    | 20    | 20    | 17   |
| 65° | 12    | 12    | 12    | 12    | 12    | 12   |
| 75° | 6     | 6     | 6     | 6     | 8     | 7    |
| 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°    | 46047.4 | 46047.4 | 46047.4 | 46047.4 | 46047.4 |
| 2.5°  | 41536.6 | 41571.7 | 41585.4 | 41626.3 | 41778.3 |
| 5°    | 29959.5 | 29651.5 | 29571.6 | 29776.2 | 29805.5 |
| 7.5°  | 17746.8 | 17809.2 | 18037.3 | 18088.0 | 17904.7 |
| 10°   | 9738.9  | 9818.8  | 9807.2  | 9877.3  | 9957.3  |
| 12.5° | 4980.6  | 4918.2  | 4898.7  | 4978.6  | 4867.5  |
| 15°   | 2602.4  | 2651.1  | 2653.1  | 2606.3  | 2571.2  |
| 17.5° | 1399.6  | 1456.2  | 1549.7  | 1473.7  | 1356.7  |
| 20°   | 826.5   | 877.2   | 957.1   | 894.7   | 844.1   |
| 22.5° | 510.7   | 551.7   | 608.2   | 559.5   | 518.5   |
| 25°   | 306.0   | 347.0   | 389.9   | 345.0   | 309.9   |
| 27.5° | 181.3   | 216.4   | 243.7   | 214.4   | 179.3   |
| 30°   | 117.0   | 136.5   | 154.0   | 134.5   | 118.9   |
| 32.5° | 81.9    | 89.7    | 97.5    | 89.7    | 81.9    |
| 35°   | 60.4    | 64.3    | 68.2    | 64.3    | 58.5    |
| 37.5° | 46.8    | 50.7    | 52.6    | 48.7    | 44.8    |
| 40°   | 39.0    | 40.9    | 42.9    | 40.9    | 39.0    |
| 42.5° | 33.1    | 35.1    | 35.1    | 35.1    | 33.1    |
| 45°   | 29.2    | 29.2    | 31.2    | 29.2    | 29.2    |
| 47.5° | 25.3    | 25.3    | 27.3    | 25.3    | 25.3    |
| 50°   | 23.4    | 23.4    | 23.4    | 23.4    | 23.4    |
| 52.5° | 21.4    | 21.4    | 21.4    | 21.4    | 21.4    |
| 55°   | 19.5    | 19.5    | 19.5    | 19.5    | 19.5    |
| 57.5° | 17.5    | 17.5    | 17.5    | 17.5    | 17.5    |
| 60°   | 15.6    | 15.6    | 15.6    | 15.6    | 15.6    |
| 62.5° | 13.6    | 13.6    | 13.6    | 13.6    | 13.6    |
| 65°   | 11.7    | 11.7    | 11.7    | 11.7    | 11.7    |
| 67.5° | 11.7    | 11.7    | 11.7    | 11.7    | 11.7    |
| 70°   | 9.7     | 9.7     | 9.7     | 9.7     | 9.7     |
| 72.5° | 7.8     | 7.8     | 7.8     | 7.8     | 7.8     |
| 75°   | 5.8     | 5.8     | 5.8     | 5.8     | 7.8     |
| 77.5° | 5.8     | 5.8     | 5.8     | 5.8     | 5.8     |
| 80°   | 3.9     | 3.9     | 3.9     | 3.9     | 3.9     |
| 82.5° | 3.9     | 3.9     | 3.9     | 3.9     | 3.9     |
| 85°   | 1.9     | 1.9     | 1.9     | 1.9     | 1.9     |
| 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)