

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: P762044

Luminaire Tested: LD6D20D010-EU6DR2015309035-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P762044  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD6D20D010-EU6DR2015309035-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2145.3 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
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



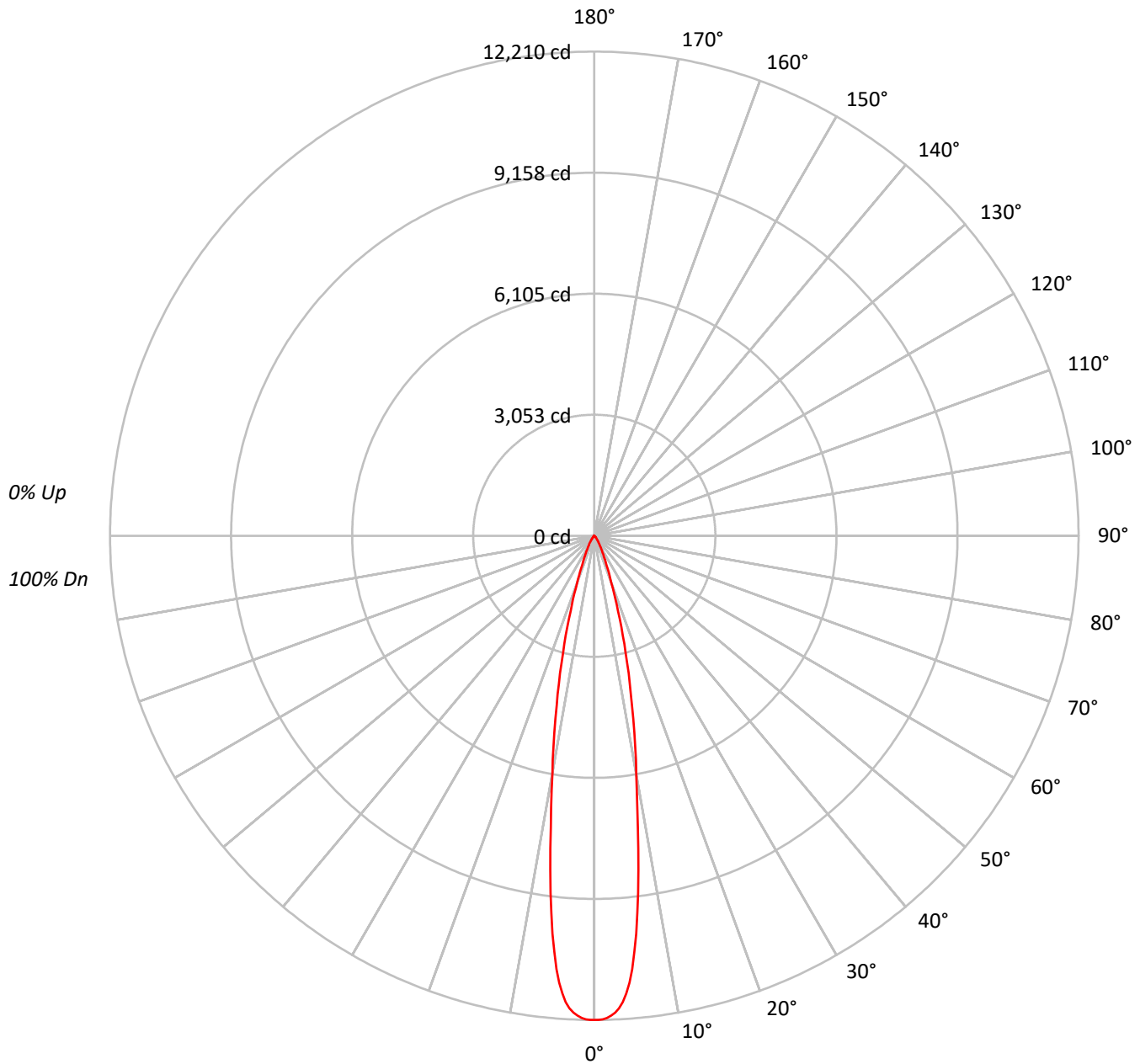
Downlight



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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   | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 108 | 107 | 106 | 104 |  | 103 | 102 | 101 |  | 100 |
| 2   | 111 | 108 | 105 | 102 | 109 | 106 | 104 | 101 | 103 | 101 | 99  |  | 100 | 99  | 97  |  | 98  |
| 3   | 108 | 103 | 100 | 97  | 106 | 102 | 99  | 96  | 100 | 97  | 95  |  | 97  | 95  | 93  |  | 95  |
| 4   | 105 | 99  | 96  | 93  | 103 | 98  | 95  | 92  | 96  | 93  | 91  |  | 95  | 92  | 90  |  | 93  |
| 5   | 102 | 96  | 92  | 89  | 100 | 95  | 91  | 89  | 94  | 90  | 88  |  | 92  | 89  | 87  |  | 91  |
| 6   | 99  | 93  | 89  | 86  | 98  | 92  | 88  | 86  | 91  | 87  | 85  |  | 90  | 87  | 84  |  | 88  |
| 7   | 96  | 90  | 86  | 83  | 95  | 89  | 86  | 83  | 88  | 85  | 82  |  | 87  | 84  | 82  |  | 86  |
| 8   | 94  | 87  | 83  | 81  | 93  | 87  | 83  | 80  | 86  | 83  | 80  |  | 85  | 82  | 80  |  | 84  |
| 9   | 91  | 85  | 81  | 78  | 91  | 85  | 81  | 78  | 84  | 80  | 78  |  | 83  | 80  | 78  |  | 82  |
| 10  | 89  | 83  | 79  | 76  | 88  | 82  | 79  | 76  | 82  | 78  | 76  |  | 81  | 78  | 76  |  | 81  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1334128 |
| 5°  | 1203641 |
| 10° | 675552  |
| 15° | 343395  |
| 20° | 145388  |
| 25° | 67113   |
| 30° | 35528   |
| 35° | 19140   |
| 40° | 10241   |
| 45° | 6042    |
| 50° | 3519    |
| 55° | 1867    |
| 60° | 1180    |
| 65° | 853     |
| 70° | 351     |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6042 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 869.4  | 40.5      |
| 10°-20°   | 856.1  | 39.9      |
| 20°-30°   | 279.6  | 13.0      |
| 30°-40°   | 95.2   | 4.4       |
| 40°-50°   | 32.0   | 1.5       |
| 50°-60°   | 9.6    | 0.4       |
| 60°-70°   | 3.2    | 0.1       |
| 70°-80°   | 0.1    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 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°    | 2005.1 | 93.5      |
| 0°-40°    | 2100.3 | 97.9      |
| 0°-60°    | 2141.9 | 99.8      |
| 0°-90°    | 2145.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2145.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 12210 |      |
| 5°  | 10974 | 869  |
| 15° | 3036  | 856  |
| 25° | 557   | 280  |
| 35° | 144   | 95   |
| 45° | 39    | 32   |
| 55° | 10    | 10   |
| 65° | 3     | 3    |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 12210.5 |
| 0.5°  | 12210.5 |
| 1°    | 12195.3 |
| 1.5°  | 12164.9 |
| 2°    | 12109.4 |
| 2.5°  | 12035.5 |
| 3°    | 11931.1 |
| 3.5°  | 11785.4 |
| 4°    | 11569.0 |
| 4.5°  | 11305.9 |
| 5°    | 10974.3 |
| 5.5°  | 10538.2 |
| 6°    | 10091.4 |
| 6.5°  | 9579.2  |
| 7°    | 9078.0  |
| 7.5°  | 8490.8  |
| 8°    | 7966.7  |
| 8.5°  | 7439.4  |
| 9°    | 6952.3  |
| 9.5°  | 6505.4  |
| 10°   | 6089.0  |
| 12.5° | 4372.1  |
| 15°   | 3035.8  |
| 17.5° | 1983.3  |
| 20°   | 1250.4  |
| 22.5° | 810.0   |
| 25°   | 556.7   |
| 27.5° | 391.4   |
| 30°   | 281.6   |
| 32.5° | 202.2   |
| 35°   | 143.5   |
| 37.5° | 100.0   |
| 40°   | 71.8    |
| 42.5° | 52.2    |
| 45°   | 39.1    |
| 47.5° | 30.4    |
| 50°   | 20.7    |
| 52.5° | 13.0    |
| 55°   | 9.8     |
| 57.5° | 7.6     |
| 60°   | 5.4     |
| 62.5° | 4.3     |
| 65°   | 3.3     |



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CANDELA DISTRIBUTION (continued):

|       | 0°  |
|-------|-----|
| 72.5° | 0.0 |
| 75°   | 0.0 |
| 77.5° | 0.0 |
| 80°   | 0.0 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |



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— 0°-180°







|       |     |
|-------|-----|
| 67.5° | 2.2 |
| 70°   | 1.1 |



(END OF REPORT)