

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: P761969

Luminaire Tested: LD6D20D010-EU6DR1515309035-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P761969  
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: LD6D20D010-EU6DR1515309035-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

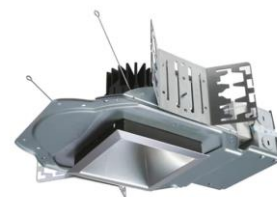
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2020.0 lumens  
Efficiency: N/A  
Efficacy: 87.4 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): 23.1  
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



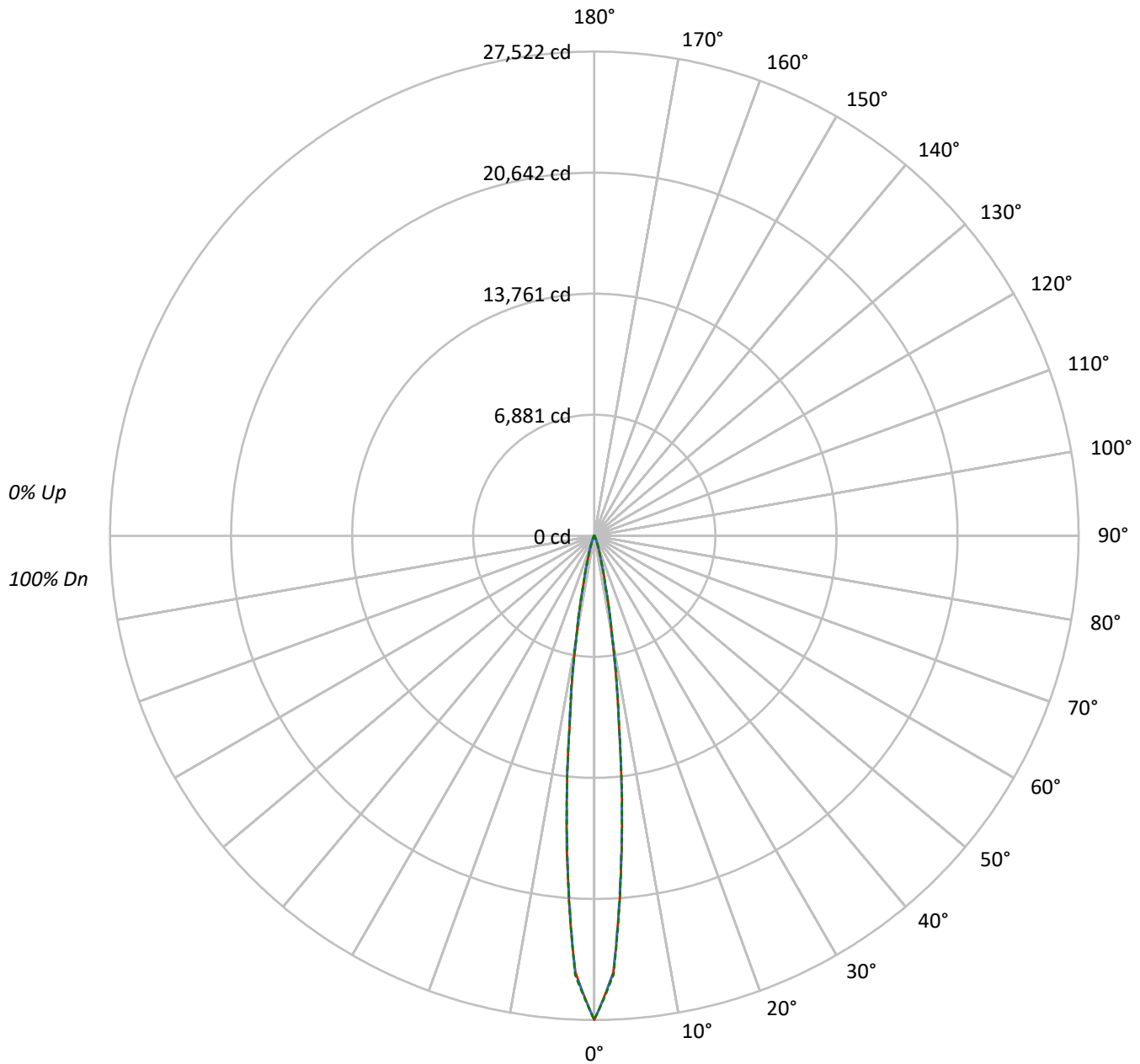
Downlight



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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°  | 3096763 | 3096763 | 3096763 |
| 5°  | 1819808 | 1796240 | 1810448 |
| 10° | 543125  | 546932  | 555301  |
| 15° | 135097  | 137729  | 133482  |
| 20° | 40420   | 46811   | 41280   |
| 25° | 14248   | 18151   | 14435   |
| 30° | 5234    | 6889    | 5324    |
| 35° | 2622    | 2963    | 2542    |
| 40° | 1655    | 1818    | 1655    |
| 45° | 1225    | 1302    | 1225    |
| 50° | 974     | 974     | 974     |
| 55° | 814     | 814     | 814     |
| 60° | 653     | 653     | 653     |
| 65° | 500     | 500     | 500     |
| 70° | 424     | 424     | 424     |
| 75° | 265     | 265     | 355     |
| 80° | 181     | 181     | 181     |
| 85° | 100     | 100     | 100     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1302 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1310.1 | 64.9      |
| 10°-20°   | 538.9  | 26.7      |
| 20°-30°   | 107.0  | 5.3       |
| 30°-40°   | 26.7   | 1.3       |
| 40°-50°   | 14.0   | 0.7       |
| 50°-60°   | 10.4   | 0.5       |
| 60°-70°   | 7.4    | 0.4       |
| 70°-80°   | 4.2    | 0.2       |
| 80°-90°   | 1.3    | 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°    | 1956.0 | 96.8      |
| 0°-40°    | 1982.7 | 98.2      |
| 0°-60°    | 2007.2 | 99.4      |
| 0°-90°    | 2020.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2020.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 27522 | 27522 | 27522 | 27522 | 27522 |      |
| 5°  | 17906 | 17722 | 17674 | 17797 | 17814 | 1308 |
| 15° | 1555  | 1584  | 1586  | 1558  | 1537  | 533  |
| 25° | 183   | 207   | 233   | 206   | 185   | 96   |
| 35° | 36    | 38    | 41    | 38    | 35    | 25   |
| 45° | 18    | 18    | 19    | 18    | 18    | 14   |
| 55° | 12    | 12    | 12    | 12    | 12    | 10   |
| 65° | 7     | 7     | 7     | 7     | 7     | 7    |
| 75° | 4     | 4     | 4     | 4     | 5     | 4    |
| 85° | 1     | 1     | 1     | 1     | 1     | 1    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 27521.9 | 27521.9 | 27521.9 | 27521.9 | 27521.9 |
| 2.5°  | 24825.9 | 24846.9 | 24855.0 | 24879.5 | 24970.4 |
| 5°    | 17906.4 | 17722.3 | 17674.5 | 17796.9 | 17814.3 |
| 7.5°  | 10607.0 | 10644.3 | 10780.6 | 10810.9 | 10701.4 |
| 10°   | 5820.8  | 5868.6  | 5861.6  | 5903.5  | 5951.3  |
| 12.5° | 2976.8  | 2939.5  | 2927.9  | 2975.7  | 2909.2  |
| 15°   | 1555.4  | 1584.5  | 1585.7  | 1557.7  | 1536.8  |
| 17.5° | 836.5   | 870.3   | 926.3   | 880.8   | 810.9   |
| 20°   | 494.0   | 524.3   | 572.1   | 534.8   | 504.5   |
| 22.5° | 305.3   | 329.7   | 363.5   | 334.4   | 309.9   |
| 25°   | 182.9   | 207.4   | 233.0   | 206.2   | 185.3   |
| 27.5° | 108.4   | 129.3   | 145.6   | 128.2   | 107.2   |
| 30°   | 69.9    | 81.6    | 92.0    | 80.4    | 71.1    |
| 32.5° | 48.9    | 53.6    | 58.3    | 53.6    | 48.9    |
| 35°   | 36.1    | 38.4    | 40.8    | 38.4    | 35.0    |
| 37.5° | 28.0    | 30.3    | 31.5    | 29.1    | 26.8    |
| 40°   | 23.3    | 24.5    | 25.6    | 24.5    | 23.3    |
| 42.5° | 19.8    | 21.0    | 21.0    | 21.0    | 19.8    |
| 45°   | 17.5    | 17.5    | 18.6    | 17.5    | 17.5    |
| 47.5° | 15.1    | 15.1    | 16.3    | 15.1    | 15.1    |
| 50°   | 14.0    | 14.0    | 14.0    | 14.0    | 14.0    |
| 52.5° | 12.8    | 12.8    | 12.8    | 12.8    | 12.8    |
| 55°   | 11.7    | 11.7    | 11.7    | 11.7    | 11.7    |
| 57.5° | 10.5    | 10.5    | 10.5    | 10.5    | 10.5    |
| 60°   | 9.3     | 9.3     | 9.3     | 9.3     | 9.3     |
| 62.5° | 8.2     | 8.2     | 8.2     | 8.2     | 8.2     |
| 65°   | 7.0     | 7.0     | 7.0     | 7.0     | 7.0     |
| 67.5° | 7.0     | 7.0     | 7.0     | 7.0     | 7.0     |
| 70°   | 5.8     | 5.8     | 5.8     | 5.8     | 5.8     |
| 72.5° | 4.7     | 4.7     | 4.7     | 4.7     | 4.7     |
| 75°   | 3.5     | 3.5     | 3.5     | 3.5     | 4.7     |
| 77.5° | 3.5     | 3.5     | 3.5     | 3.5     | 3.5     |
| 80°   | 2.3     | 2.3     | 2.3     | 2.3     | 2.3     |
| 82.5° | 2.3     | 2.3     | 2.3     | 2.3     | 2.3     |
| 85°   | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     |
| 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)