

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: P761938

Luminaire Tested: LD6D20D010-EU6DR1515309027-6LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P761938  
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-EU6DR1515309027-6LBCSSQMW  
Description: 6 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1766.6 lumens  
Efficiency: N/A  
Efficacy: 76.5 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): 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



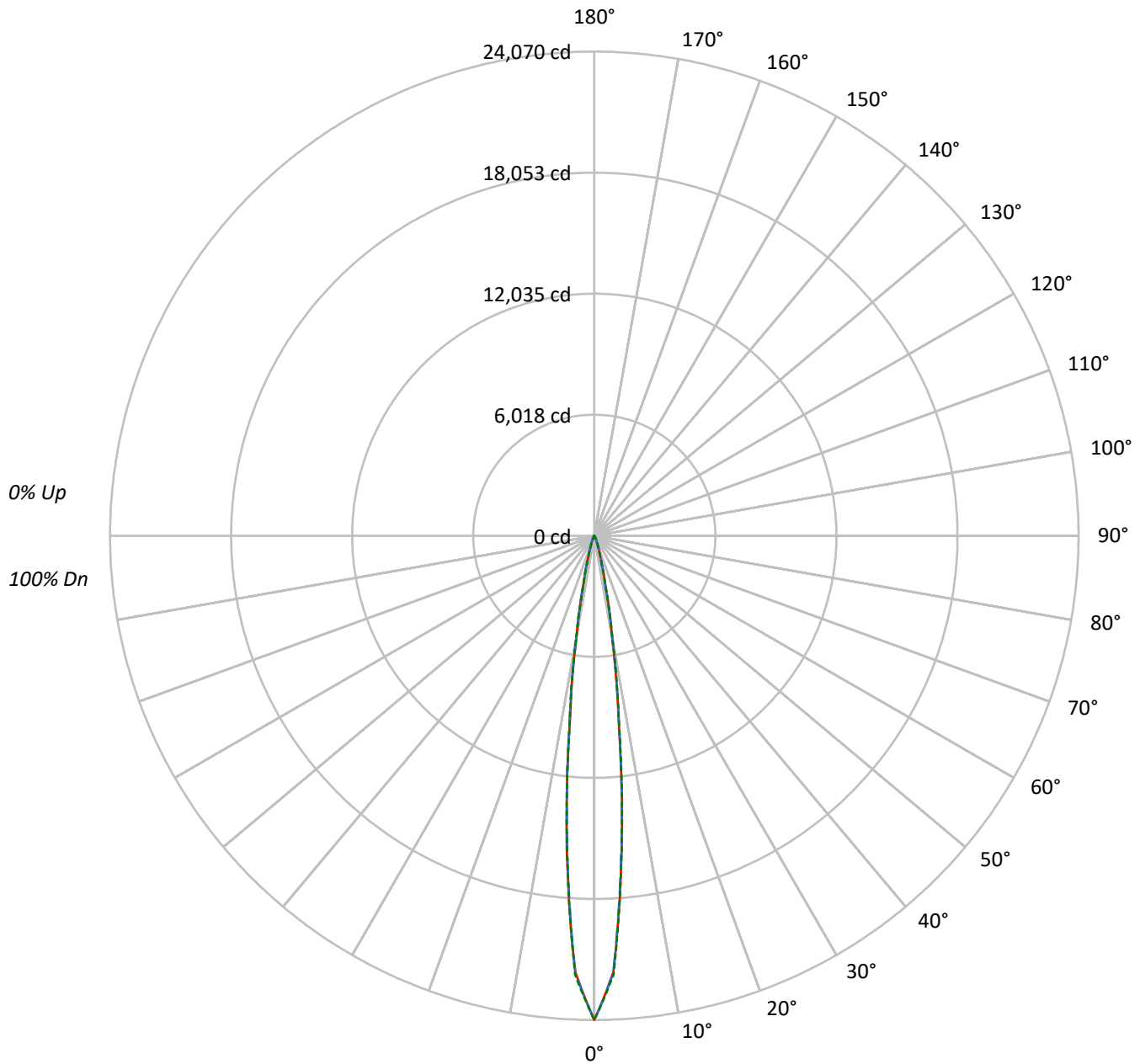
Downlight



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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°  | 2708389 | 2708389 | 2708389 |
| 5°  | 1591580 | 1570969 | 1583399 |
| 10° | 475010  | 478341  | 485657  |
| 15° | 118151  | 120453  | 116736  |
| 20° | 35347   | 40936   | 36100   |
| 25° | 12464   | 15876   | 12620   |
| 30° | 4575    | 6028    | 4658    |
| 35° | 2295    | 2593    | 2222    |
| 40° | 1449    | 1591    | 1449    |
| 45° | 1071    | 1141    | 1071    |
| 50° | 848     | 848     | 848     |
| 55° | 710     | 710     | 710     |
| 60° | 576     | 576     | 576     |
| 65° | 435     | 435     | 435     |
| 70° | 373     | 373     | 373     |
| 75° | 234     | 234     | 310     |
| 80° | 158     | 158     | 158     |
| 85° | 83      | 83      | 83      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1141 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1145.8 | 64.9      |
| 10°-20°   | 471.3  | 26.7      |
| 20°-30°   | 93.6   | 5.3       |
| 30°-40°   | 23.4   | 1.3       |
| 40°-50°   | 12.3   | 0.7       |
| 50°-60°   | 9.1    | 0.5       |
| 60°-70°   | 6.4    | 0.4       |
| 70°-80°   | 3.7    | 0.2       |
| 80°-90°   | 1.1    | 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       |
| 0°-30°    | 1710.7 | 96.8      |
| 0°-40°    | 1734.1 | 98.2      |
| 0°-60°    | 1755.5 | 99.4      |
| 0°-90°    | 1766.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1766.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 24070 | 24070 | 24070 | 24070 | 24070 |      |
| 5°  | 15661 | 15500 | 15458 | 15565 | 15580 | 1144 |
| 15° | 1360  | 1386  | 1387  | 1362  | 1344  | 466  |
| 25° | 160   | 181   | 204   | 180   | 162   | 84   |
| 35° | 32    | 34    | 36    | 34    | 31    | 21   |
| 45° | 15    | 15    | 16    | 15    | 15    | 12   |
| 55° | 10    | 10    | 10    | 10    | 10    | 9    |
| 65° | 6     | 6     | 6     | 6     | 6     | 6    |
| 75° | 3     | 3     | 3     | 3     | 4     | 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°    | 24070.3 | 24070.3 | 24070.3 | 24070.3 | 24070.3 |
| 2.5°  | 21712.4 | 21730.7 | 21737.9 | 21759.3 | 21838.7 |
| 5°    | 15660.7 | 15499.7 | 15457.9 | 15564.9 | 15580.2 |
| 7.5°  | 9276.8  | 9309.4  | 9428.6  | 9455.1  | 9359.3  |
| 10°   | 5090.8  | 5132.6  | 5126.5  | 5163.2  | 5204.9  |
| 12.5° | 2603.5  | 2570.9  | 2560.7  | 2602.5  | 2544.4  |
| 15°   | 1360.3  | 1385.8  | 1386.8  | 1362.4  | 1344.0  |
| 17.5° | 731.6   | 761.2   | 810.1   | 770.3   | 709.2   |
| 20°   | 432.0   | 458.5   | 500.3   | 467.7   | 441.2   |
| 22.5° | 267.0   | 288.4   | 317.9   | 292.4   | 271.0   |
| 25°   | 160.0   | 181.4   | 203.8   | 180.4   | 162.0   |
| 27.5° | 94.8    | 113.1   | 127.4   | 112.1   | 93.7    |
| 30°   | 61.1    | 71.3    | 80.5    | 70.3    | 62.2    |
| 32.5° | 42.8    | 46.9    | 50.9    | 46.9    | 42.8    |
| 35°   | 31.6    | 33.6    | 35.7    | 33.6    | 30.6    |
| 37.5° | 24.5    | 26.5    | 27.5    | 25.5    | 23.4    |
| 40°   | 20.4    | 21.4    | 22.4    | 21.4    | 20.4    |
| 42.5° | 17.3    | 18.3    | 18.3    | 18.3    | 17.3    |
| 45°   | 15.3    | 15.3    | 16.3    | 15.3    | 15.3    |
| 47.5° | 13.2    | 13.2    | 14.3    | 13.2    | 13.2    |
| 50°   | 12.2    | 12.2    | 12.2    | 12.2    | 12.2    |
| 52.5° | 11.2    | 11.2    | 11.2    | 11.2    | 11.2    |
| 55°   | 10.2    | 10.2    | 10.2    | 10.2    | 10.2    |
| 57.5° | 9.2     | 9.2     | 9.2     | 9.2     | 9.2     |
| 60°   | 8.2     | 8.2     | 8.2     | 8.2     | 8.2     |
| 62.5° | 7.1     | 7.1     | 7.1     | 7.1     | 7.1     |
| 65°   | 6.1     | 6.1     | 6.1     | 6.1     | 6.1     |
| 67.5° | 6.1     | 6.1     | 6.1     | 6.1     | 6.1     |
| 70°   | 5.1     | 5.1     | 5.1     | 5.1     | 5.1     |
| 72.5° | 4.1     | 4.1     | 4.1     | 4.1     | 4.1     |
| 75°   | 3.1     | 3.1     | 3.1     | 3.1     | 4.1     |
| 77.5° | 3.1     | 3.1     | 3.1     | 3.1     | 3.1     |
| 80°   | 2.0     | 2.0     | 2.0     | 2.0     | 2.0     |
| 82.5° | 2.0     | 2.0     | 2.0     | 2.0     | 2.0     |
| 85°   | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     |
| 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)