

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: P763812

Luminaire Tested: LD6D30D010-EU6DR1515309027-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P763812  
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-EU6DR1515309027-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3117.3 lumens  
Efficiency: N/A  
Efficacy: 107.5 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



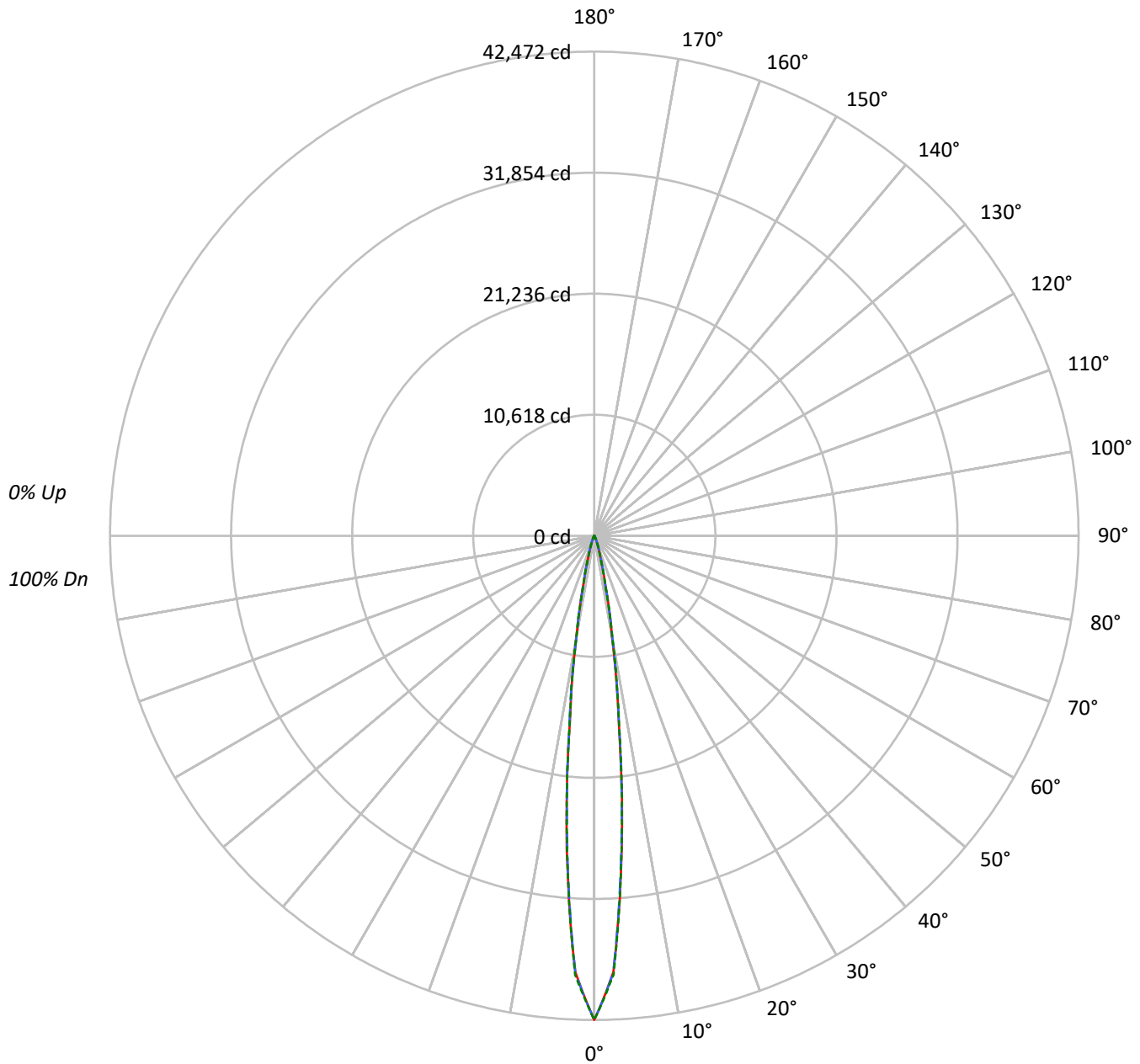
Downlight



TEST NUMBER: P763812

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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  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 100 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 |  | 104 | 103 | 103 |  | 98  |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 |  | 102 | 101 | 100 |  | 96  |
| 3   | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99  |  | 100 | 99  | 97  |  | 94  |
| 4   | 108 | 103 | 100 | 98  | 106 | 102 | 99  | 97  | 100 | 98  | 96  |  | 99  | 97  | 95  |  | 93  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 98  | 96  | 94  |  | 97  | 95  | 93  |  | 92  |
| 6   | 104 | 99  | 95  | 93  | 102 | 98  | 95  | 93  | 97  | 94  | 92  |  | 96  | 93  | 92  |  | 90  |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  |  | 94  | 92  | 90  |  | 89  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  |  | 93  | 91  | 89  |  | 88  |
| 9   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  |  | 92  | 89  | 88  |  | 87  |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 89  | 87  |  | 91  | 88  | 87  |  | 86  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 4778936 | 4778936 | 4778936 |
| 5°  | 2808322 | 2771959 | 2793890 |
| 10° | 838154  | 844023  | 856946  |
| 15° | 208482  | 212539  | 205981  |
| 20° | 62374   | 72233   | 63699   |
| 25° | 21991   | 28013   | 22272   |
| 30° | 8080    | 10633   | 8214    |
| 35° | 4045    | 4568    | 3914    |
| 40° | 2557    | 2812    | 2557    |
| 45° | 1890    | 2016    | 1890    |
| 50° | 1502    | 1502    | 1502    |
| 55° | 1253    | 1253    | 1253    |
| 60° | 1011    | 1011    | 1011    |
| 65° | 771     | 771     | 771     |
| 70° | 658     | 658     | 658     |
| 75° | 408     | 408     | 544     |
| 80° | 284     | 284     | 284     |
| 85° | 149     | 149     | 149     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 2016 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2021.7 | 64.9      |
| 10°-20°   | 831.6  | 26.7      |
| 20°-30°   | 165.2  | 5.3       |
| 30°-40°   | 41.2   | 1.3       |
| 40°-50°   | 21.7   | 0.7       |
| 50°-60°   | 16.1   | 0.5       |
| 60°-70°   | 11.4   | 0.4       |
| 70°-80°   | 6.5    | 0.2       |
| 80°-90°   | 2.0    | 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°    | 3018.5 | 96.8      |
| 0°-40°    | 3059.7 | 98.2      |
| 0°-60°    | 3097.5 | 99.4      |
| 0°-90°    | 3117.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3117.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 42472 | 42472 | 42472 | 42472 | 42472 |      |
| 5°  | 27633 | 27349 | 27275 | 27464 | 27491 | 2018 |
| 15° | 2400  | 2445  | 2447  | 2404  | 2372  | 823  |
| 25° | 282   | 320   | 360   | 318   | 286   | 148  |
| 35° | 56    | 59    | 63    | 59    | 54    | 38   |
| 45° | 27    | 27    | 29    | 27    | 27    | 21   |
| 55° | 18    | 18    | 18    | 18    | 18    | 16   |
| 65° | 11    | 11    | 11    | 11    | 11    | 11   |
| 75° | 5     | 5     | 5     | 5     | 7     | 6    |
| 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°    | 42471.9 | 42471.9 | 42471.9 | 42471.9 | 42471.9 |
| 2.5°  | 38311.3 | 38343.7 | 38356.3 | 38394.1 | 38534.3 |
| 5°    | 27633.1 | 27349.1 | 27275.3 | 27464.1 | 27491.1 |
| 7.5°  | 16368.8 | 16426.3 | 16636.7 | 16683.5 | 16514.4 |
| 10°   | 8982.7  | 9056.4  | 9045.6  | 9110.4  | 9184.1  |
| 12.5° | 4593.8  | 4536.3  | 4518.3  | 4592.0  | 4489.6  |
| 15°   | 2400.3  | 2445.3  | 2447.0  | 2403.9  | 2371.5  |
| 17.5° | 1290.9  | 1343.1  | 1429.4  | 1359.3  | 1251.4  |
| 20°   | 762.3   | 809.1   | 882.8   | 825.3   | 778.5   |
| 22.5° | 471.1   | 508.8   | 561.0   | 516.0   | 478.3   |
| 25°   | 282.3   | 320.0   | 359.6   | 318.2   | 285.9   |
| 27.5° | 167.2   | 199.6   | 224.7   | 197.8   | 165.4   |
| 30°   | 107.9   | 125.9   | 142.0   | 124.1   | 109.7   |
| 32.5° | 75.5    | 82.7    | 89.9    | 82.7    | 75.5    |
| 35°   | 55.7    | 59.3    | 62.9    | 59.3    | 53.9    |
| 37.5° | 43.2    | 46.7    | 48.5    | 44.9    | 41.4    |
| 40°   | 36.0    | 37.8    | 39.6    | 37.8    | 36.0    |
| 42.5° | 30.6    | 32.4    | 32.4    | 32.4    | 30.6    |
| 45°   | 27.0    | 27.0    | 28.8    | 27.0    | 27.0    |
| 47.5° | 23.4    | 23.4    | 25.2    | 23.4    | 23.4    |
| 50°   | 21.6    | 21.6    | 21.6    | 21.6    | 21.6    |
| 52.5° | 19.8    | 19.8    | 19.8    | 19.8    | 19.8    |
| 55°   | 18.0    | 18.0    | 18.0    | 18.0    | 18.0    |
| 57.5° | 16.2    | 16.2    | 16.2    | 16.2    | 16.2    |
| 60°   | 14.4    | 14.4    | 14.4    | 14.4    | 14.4    |
| 62.5° | 12.6    | 12.6    | 12.6    | 12.6    | 12.6    |
| 65°   | 10.8    | 10.8    | 10.8    | 10.8    | 10.8    |
| 67.5° | 10.8    | 10.8    | 10.8    | 10.8    | 10.8    |
| 70°   | 9.0     | 9.0     | 9.0     | 9.0     | 9.0     |
| 72.5° | 7.2     | 7.2     | 7.2     | 7.2     | 7.2     |
| 75°   | 5.4     | 5.4     | 5.4     | 5.4     | 7.2     |
| 77.5° | 5.4     | 5.4     | 5.4     | 5.4     | 5.4     |
| 80°   | 3.6     | 3.6     | 3.6     | 3.6     | 3.6     |
| 82.5° | 3.6     | 3.6     | 3.6     | 3.6     | 3.6     |
| 85°   | 1.8     | 1.8     | 1.8     | 1.8     | 1.8     |
| 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)