

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: P774177

Luminaire Tested: LD6D95BD010-EU6DR3070959024-6LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P774177  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD6D95BD010-EU6DR3070959024-6LBS1H  
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9848.0 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.2  
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

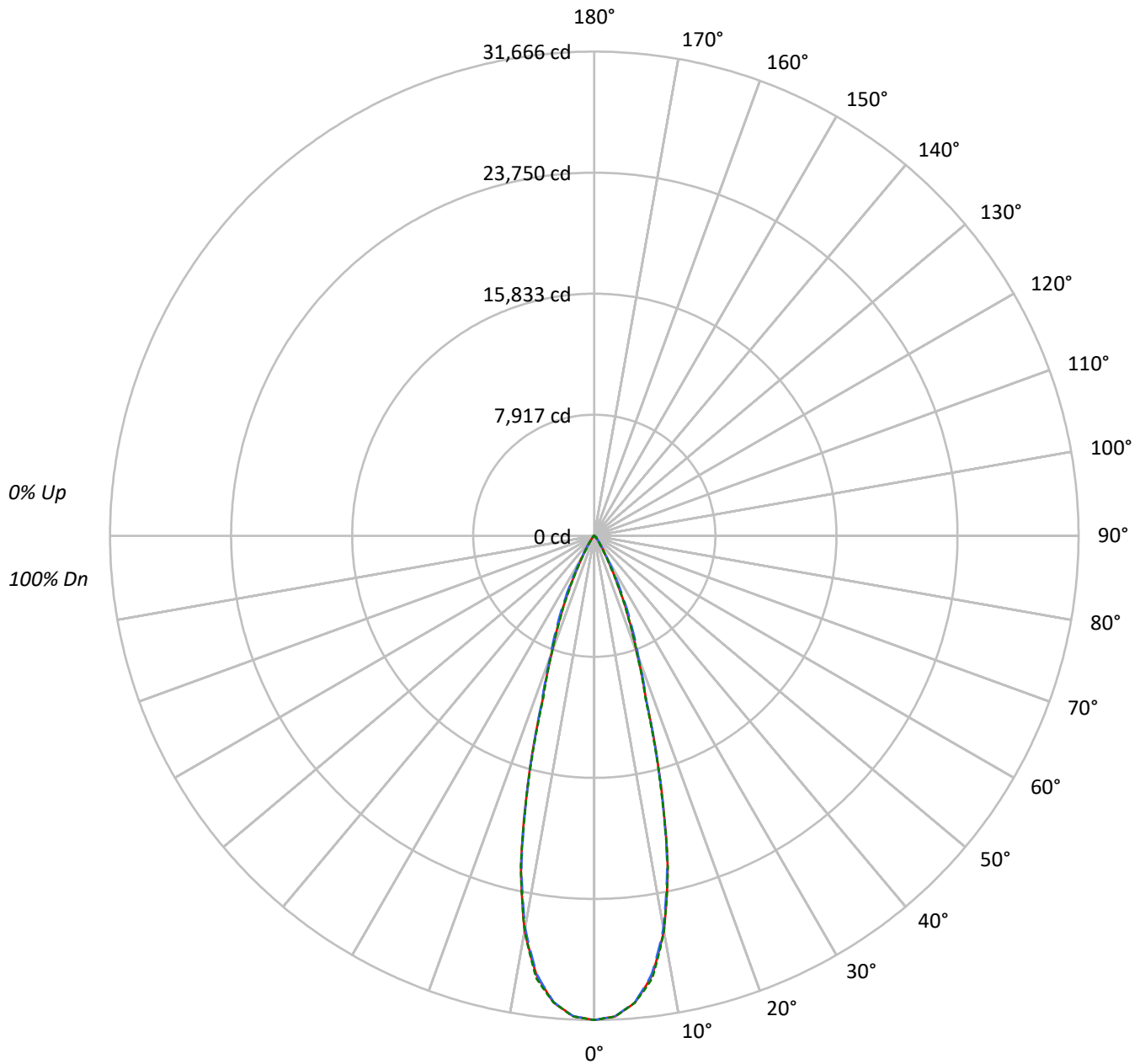


Downlight

TEST NUMBER: P774177

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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  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 96  |    |    |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  | 92  |    |    |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 89  |    |    |
| 4   | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  | 94  | 91  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 85  |    |    |
| 5   | 100 | 94  | 89  | 86  | 98  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 86  | 84  | 88  | 86  | 83  | 82  |    |    |
| 6   | 97  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 83  | 80  | 79  |    |    |
| 7   | 94  | 87  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 78  | 84  | 81  | 78  | 83  | 80  | 78  | 77  |    |    |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 76  | 81  | 78  | 75  | 80  | 77  | 75  | 74  |    |    |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 73  | 72  |    |    |
| 10  | 85  | 78  | 74  | 71  | 85  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 71  | 76  | 73  | 70  | 69  |    |    |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 2423831 | 2423831 | 2423831 |
| 5°  | 2354248 | 2351498 | 2354364 |
| 10° | 2039133 | 2024754 | 2038651 |
| 15° | 1330436 | 1323288 | 1316640 |
| 20° | 661559  | 686387  | 660680  |
| 25° | 333248  | 375788  | 326424  |
| 30° | 133426  | 145384  | 116252  |
| 35° | 61887   | 59270   | 49683   |
| 40° | 26719   | 29666   | 25170   |
| 45° | 18846   | 23393   | 19019   |
| 50° | 6478    | 17028   | 6847    |
| 55° | 3737    | 7059    | 3937    |
| 60° | 2618    | 3092    | 2618    |
| 65° | 1684    | 1684    | 1684    |
| 70° | 1052    | 694     | 1052    |
| 75° | 0       | 473     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 23393 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2784.6 | 28.3      |
| 10°-20°   | 4484.5 | 45.5      |
| 20°-30°   | 1937.9 | 19.7      |
| 30°-40°   | 441.7  | 4.5       |
| 40°-50°   | 151.7  | 1.5       |
| 50°-60°   | 37.0   | 0.4       |
| 60°-70°   | 9.6    | 0.1       |
| 70°-80°   | 1.0    | 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°    | 9207.0 | 93.5      |
| 0°-40°    | 9648.7 | 98.0      |
| 0°-60°    | 9837.4 | 99.9      |
| 0°-90°    | 9848.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9848.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 31666 | 31666 | 31666 | 31666 | 31666 |      |
| 5°  | 30640 | 30610 | 30604 | 30668 | 30642 | 2787 |
| 15° | 16789 | 16587 | 16699 | 16645 | 16615 | 4496 |
| 25° | 3946  | 4095  | 4450  | 3991  | 3865  | 1889 |
| 35° | 662   | 676   | 634   | 630   | 532   | 449  |
| 45° | 174   | 216   | 216   | 216   | 176   | 124  |
| 55° | 28    | 30    | 53    | 31    | 30    | 27   |
| 65° | 9     | 9     | 9     | 9     | 9     | 9    |
| 75° | 0     | 0     | 2     | 0     | 0     | 1    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 31666.1 | 31666.1 | 31666.1 | 31666.1 | 31666.1 |
| 2.5°  | 31456.2 | 31434.4 | 31446.9 | 31462.4 | 31468.6 |
| 5°    | 30640.0 | 30610.4 | 30604.2 | 30668.0 | 30641.5 |
| 7.5°  | 28993.5 | 28951.6 | 28887.8 | 29032.4 | 29167.7 |
| 10°   | 26235.5 | 26188.9 | 26050.5 | 26118.9 | 26229.3 |
| 12.5° | 22163.8 | 22013.0 | 22009.8 | 22227.5 | 22198.0 |
| 15°   | 16789.2 | 16587.1 | 16699.0 | 16644.6 | 16615.1 |
| 17.5° | 11290.2 | 11212.5 | 11361.7 | 11316.6 | 11122.3 |
| 20°   | 8121.7  | 8141.9  | 8426.5  | 8283.4  | 8110.9  |
| 22.5° | 5926.5  | 5999.6  | 6336.9  | 5968.5  | 5833.2  |
| 25°   | 3945.8  | 4095.1  | 4449.5  | 3990.9  | 3865.0  |
| 27.5° | 2426.9  | 2495.3  | 2854.4  | 2395.8  | 2327.4  |
| 30°   | 1509.6  | 1475.4  | 1644.9  | 1411.7  | 1315.3  |
| 32.5° | 990.3   | 946.8   | 1001.2  | 898.6   | 820.9   |
| 35°   | 662.3   | 676.3   | 634.3   | 629.7   | 531.7   |
| 37.5° | 413.5   | 475.7   | 419.8   | 447.8   | 342.0   |
| 40°   | 267.4   | 345.1   | 296.9   | 328.0   | 251.9   |
| 42.5° | 219.2   | 265.9   | 244.1   | 259.6   | 223.9   |
| 45°   | 174.1   | 216.1   | 216.1   | 216.1   | 175.7   |
| 47.5° | 96.4    | 144.6   | 185.0   | 147.7   | 102.6   |
| 50°   | 54.4    | 73.1    | 143.0   | 76.2    | 57.5    |
| 52.5° | 37.3    | 42.0    | 97.9    | 43.5    | 38.9    |
| 55°   | 28.0    | 29.5    | 52.9    | 31.1    | 29.5    |
| 57.5° | 21.8    | 23.3    | 28.0    | 23.3    | 21.8    |
| 60°   | 17.1    | 17.1    | 20.2    | 18.7    | 17.1    |
| 62.5° | 12.4    | 12.4    | 14.0    | 12.4    | 12.4    |
| 65°   | 9.3     | 9.3     | 9.3     | 9.3     | 9.3     |
| 67.5° | 4.7     | 6.2     | 6.2     | 6.2     | 6.2     |
| 70°   | 4.7     | 3.1     | 3.1     | 3.1     | 4.7     |
| 72.5° | 3.1     | 1.6     | 1.6     | 1.6     | 1.6     |
| 75°   | 0.0     | 0.0     | 1.6     | 0.0     | 0.0     |
| 77.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 80°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 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)