

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: P757150

Luminaire Tested: LD6D02D010-EU6DR300210IC9030-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P757150  
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: LD6D02D010-EU6DR300210IC9030-6LBDP1LI  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 371.6 lumens  
Efficiency: N/A  
Efficacy: 72.9 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): 5.1  
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



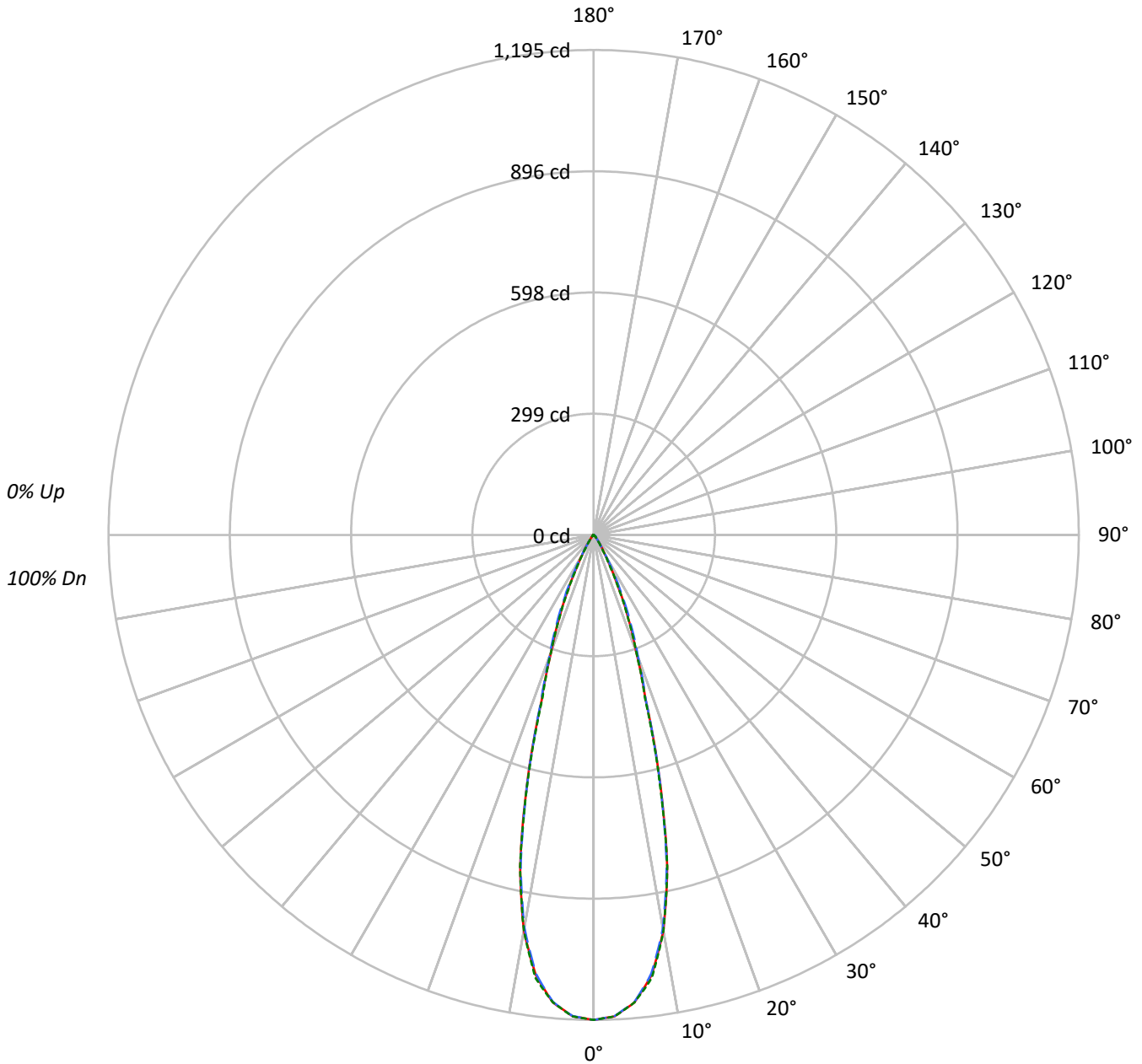
Downlight



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 50  |     |     |     |     |     |     |     |     | 30 |    |   |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 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 | 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  | 87  | 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°  | 91469 | 91469 | 91469 |
| 5°  | 88845 | 88745 | 88845 |
| 10° | 76955 | 76411 | 76931 |
| 15° | 50209 | 49939 | 49686 |
| 20° | 24966 | 25903 | 24934 |
| 25° | 12576 | 14180 | 12322 |
| 30° | 5038  | 5489  | 4384  |
| 35° | 2336  | 2233  | 1878  |
| 40° | 1009  | 1119  | 949   |
| 45° | 714   | 877   | 714   |
| 50° | 250   | 643   | 262   |
| 55° | 133   | 267   | 147   |
| 60° | 92    | 107   | 92    |
| 65° | 54    | 54    | 54    |
| 70° | 45    | 22    | 45    |
| 75° | 0     | 30    | 0     |
| 80° | 0     | 0     | 0     |
| 85° | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 877 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 105.1  | 28.3      |
| 10°-20°   | 169.2  | 45.5      |
| 20°-30°   | 73.1   | 19.7      |
| 30°-40°   | 16.7   | 4.5       |
| 40°-50°   | 5.7    | 1.5       |
| 50°-60°   | 1.4    | 0.4       |
| 60°-70°   | 0.3    | 0.1       |
| 70°-80°   | 0.0    | 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°    | 347.4  | 93.5      |
| 0°-40°    | 364.1  | 98.0      |
| 0°-60°    | 371.2  | 99.9      |
| 0°-90°    | 371.6  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 371.6  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1195 | 1195  | 1195 | 1195  | 1195 |      |
| 5°  | 1156 | 1155  | 1155 | 1157  | 1156 | 105  |
| 15° | 634  | 626   | 630  | 628   | 627  | 170  |
| 25° | 149  | 154   | 168  | 151   | 146  | 71   |
| 35° | 25   | 26    | 24   | 24    | 20   | 17   |
| 45° | 7    | 8     | 8    | 8     | 7    | 5    |
| 55° | 1    | 1     | 2    | 1     | 1    | 1    |
| 65° | 0    | 0     | 0    | 0     | 0    | 0    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 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°    | 1195.0 | 1195.0 | 1195.0 | 1195.0 | 1195.0 |
| 2.5°  | 1187.1 | 1186.3 | 1186.8 | 1187.3 | 1187.6 |
| 5°    | 1156.3 | 1155.2 | 1155.0 | 1157.4 | 1156.3 |
| 7.5°  | 1094.2 | 1092.6 | 1090.2 | 1095.6 | 1100.8 |
| 10°   | 990.1  | 988.3  | 983.1  | 985.6  | 989.8  |
| 12.5° | 836.4  | 830.7  | 830.6  | 838.8  | 837.7  |
| 15°   | 633.6  | 625.9  | 630.2  | 628.1  | 627.0  |
| 17.5° | 426.0  | 423.1  | 428.8  | 427.1  | 419.7  |
| 20°   | 306.5  | 307.3  | 318.0  | 312.6  | 306.1  |
| 22.5° | 223.7  | 226.4  | 239.1  | 225.2  | 220.1  |
| 25°   | 148.9  | 154.5  | 167.9  | 150.6  | 145.9  |
| 27.5° | 91.6   | 94.2   | 107.7  | 90.4   | 87.8   |
| 30°   | 57.0   | 55.7   | 62.1   | 53.3   | 49.6   |
| 32.5° | 37.4   | 35.8   | 37.8   | 33.9   | 31.0   |
| 35°   | 25.0   | 25.5   | 23.9   | 23.8   | 20.1   |
| 37.5° | 15.6   | 17.9   | 15.8   | 16.9   | 12.9   |
| 40°   | 10.1   | 13.0   | 11.2   | 12.4   | 9.5    |
| 42.5° | 8.3    | 10.0   | 9.2    | 9.8    | 8.4    |
| 45°   | 6.6    | 8.1    | 8.1    | 8.1    | 6.6    |
| 47.5° | 3.6    | 5.4    | 7.0    | 5.6    | 3.9    |
| 50°   | 2.1    | 2.8    | 5.4    | 2.9    | 2.2    |
| 52.5° | 1.4    | 1.6    | 3.7    | 1.7    | 1.5    |
| 55°   | 1.0    | 1.1    | 2.0    | 1.1    | 1.1    |
| 57.5° | 0.8    | 0.9    | 1.0    | 0.9    | 0.8    |
| 60°   | 0.6    | 0.6    | 0.7    | 0.7    | 0.6    |
| 62.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 65°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    |
| 67.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 70°   | 0.2    | 0.1    | 0.1    | 0.1    | 0.2    |
| 72.5° | 0.1    | 0.1    | 0.1    | 0.1    | 0.1    |
| 75°   | 0.0    | 0.0    | 0.1    | 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    |

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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Scaled Data Report



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