

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



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: P785437

Luminaire Tested: LERS6D02D010-EC6DR300210IC9030-6LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P785437  
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: LERS6D02D010-EC6DR300210IC9030-6LBS1H  
Description: 6 INCH ROUND SHALLOW SEMI-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: 650.3 lumens  
Efficiency: N/A  
Efficacy: 127.5 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

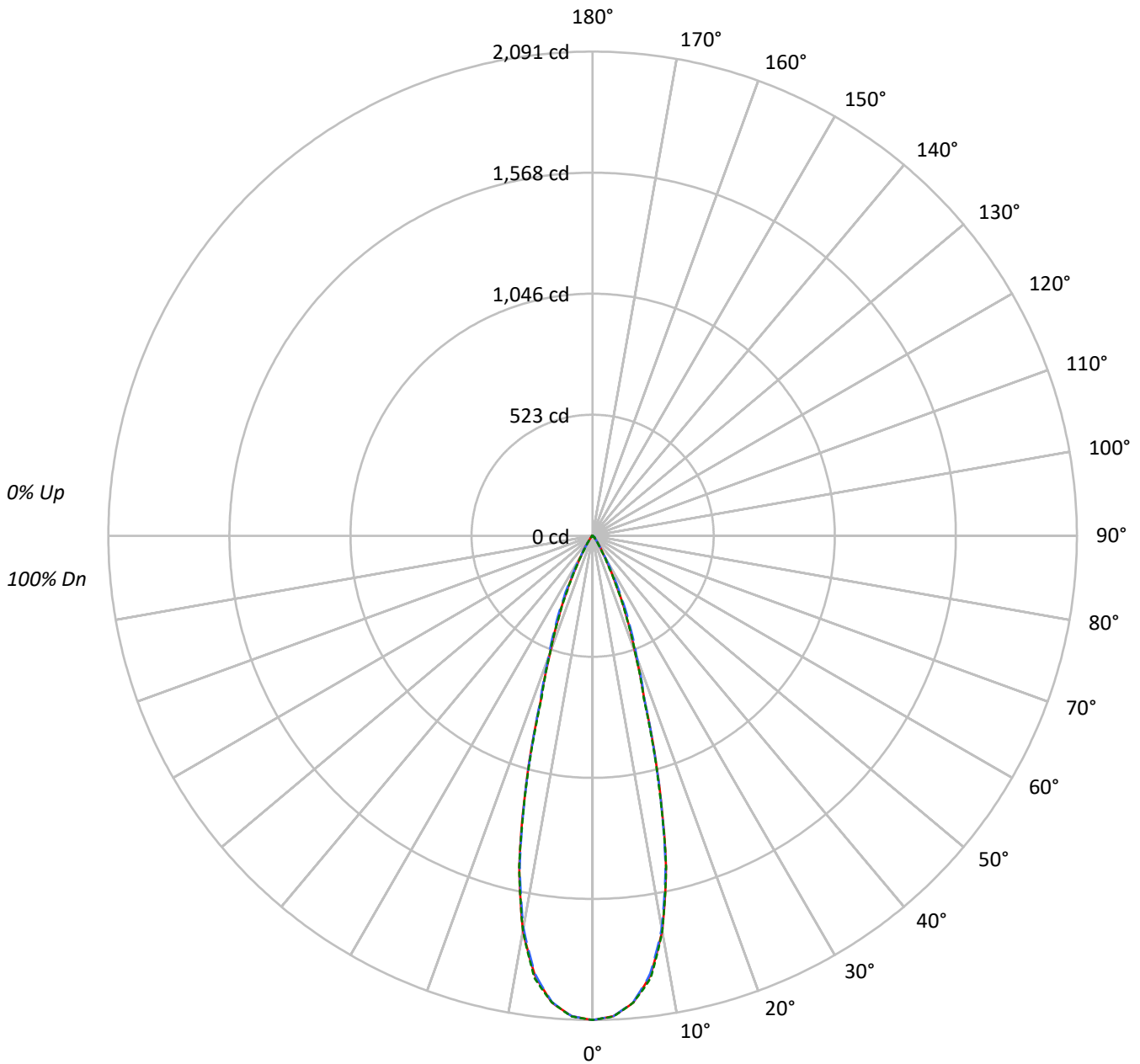


Downlight

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

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 160045 | 160045 | 160045 |
| 5°  | 155454 | 155270 | 155462 |
| 10° | 134649 | 133693 | 134611 |
| 15° | 87849  | 87382  | 86938  |
| 20° | 43685  | 45322  | 43628  |
| 25° | 22001  | 24813  | 21553  |
| 30° | 8812   | 9599   | 7672   |
| 35° | 4083   | 3915   | 3280   |
| 40° | 1769   | 1958   | 1659   |
| 45° | 1245   | 1548   | 1256   |
| 50° | 429    | 1119   | 453    |
| 55° | 240    | 467    | 267    |
| 60° | 168    | 199    | 168    |
| 65° | 109    | 109    | 109    |
| 70° | 67     | 45     | 67     |
| 75° | 0      | 30     | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1548 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 183.9  | 28.3      |
| 10°-20°   | 296.1  | 45.5      |
| 20°-30°   | 128.0  | 19.7      |
| 30°-40°   | 29.2   | 4.5       |
| 40°-50°   | 10.0   | 1.5       |
| 50°-60°   | 2.4    | 0.4       |
| 60°-70°   | 0.6    | 0.1       |
| 70°-80°   | 0.1    | 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°    | 607.9  | 93.5      |
| 0°-40°    | 637.1  | 98.0      |
| 0°-60°    | 649.6  | 99.9      |
| 0°-90°    | 650.3  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 650.3  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2091 | 2091  | 2091 | 2091  | 2091 |      |
| 5°  | 2023 | 2021  | 2021 | 2025  | 2023 | 184  |
| 15° | 1109 | 1095  | 1103 | 1099  | 1097 | 297  |
| 25° | 260  | 270   | 294  | 264   | 255  | 125  |
| 35° | 44   | 45    | 42   | 42    | 35   | 30   |
| 45° | 12   | 14    | 14   | 14    | 12   | 8    |
| 55° | 2    | 2     | 4    | 2     | 2    | 2    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 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°    | 2090.9 | 2090.9 | 2090.9 | 2090.9 | 2090.9 |
| 2.5°  | 2077.1 | 2075.6 | 2076.5 | 2077.5 | 2077.9 |
| 5°    | 2023.2 | 2021.2 | 2020.8 | 2025.0 | 2023.3 |
| 7.5°  | 1914.5 | 1911.7 | 1907.5 | 1917.0 | 1926.0 |
| 10°   | 1732.4 | 1729.3 | 1720.1 | 1724.7 | 1731.9 |
| 12.5° | 1463.5 | 1453.5 | 1453.3 | 1467.7 | 1465.8 |
| 15°   | 1108.6 | 1095.3 | 1102.7 | 1099.1 | 1097.1 |
| 17.5° | 745.5  | 740.4  | 750.2  | 747.3  | 734.4  |
| 20°   | 536.3  | 537.6  | 556.4  | 547.0  | 535.6  |
| 22.5° | 391.3  | 396.2  | 418.4  | 394.1  | 385.2  |
| 25°   | 260.5  | 270.4  | 293.8  | 263.5  | 255.2  |
| 27.5° | 160.2  | 164.8  | 188.5  | 158.2  | 153.7  |
| 30°   | 99.7   | 97.4   | 108.6  | 93.2   | 86.8   |
| 32.5° | 65.4   | 62.5   | 66.1   | 59.3   | 54.2   |
| 35°   | 43.7   | 44.7   | 41.9   | 41.6   | 35.1   |
| 37.5° | 27.3   | 31.4   | 27.7   | 29.6   | 22.6   |
| 40°   | 17.7   | 22.8   | 19.6   | 21.7   | 16.6   |
| 42.5° | 14.5   | 17.6   | 16.1   | 17.1   | 14.8   |
| 45°   | 11.5   | 14.3   | 14.3   | 14.3   | 11.6   |
| 47.5° | 6.4    | 9.5    | 12.2   | 9.8    | 6.8    |
| 50°   | 3.6    | 4.8    | 9.4    | 5.0    | 3.8    |
| 52.5° | 2.5    | 2.8    | 6.5    | 2.9    | 2.6    |
| 55°   | 1.8    | 2.0    | 3.5    | 2.1    | 2.0    |
| 57.5° | 1.4    | 1.5    | 1.8    | 1.5    | 1.4    |
| 60°   | 1.1    | 1.1    | 1.3    | 1.2    | 1.1    |
| 62.5° | 0.8    | 0.8    | 0.9    | 0.8    | 0.8    |
| 65°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 67.5° | 0.3    | 0.4    | 0.4    | 0.4    | 0.4    |
| 70°   | 0.3    | 0.2    | 0.2    | 0.2    | 0.3    |
| 72.5° | 0.2    | 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    |

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Scaled Data Report



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Scaled Data Report







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

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