

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: P792780

Luminaire Tested: LER6D45BD010-EC6DR3040509027-6LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792780  
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: LER6D45BD010-EC6DR3040509027-6LBS1H  
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4892.8 lumens  
Efficiency: N/A  
Efficacy: 126.4 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): 38.7  
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

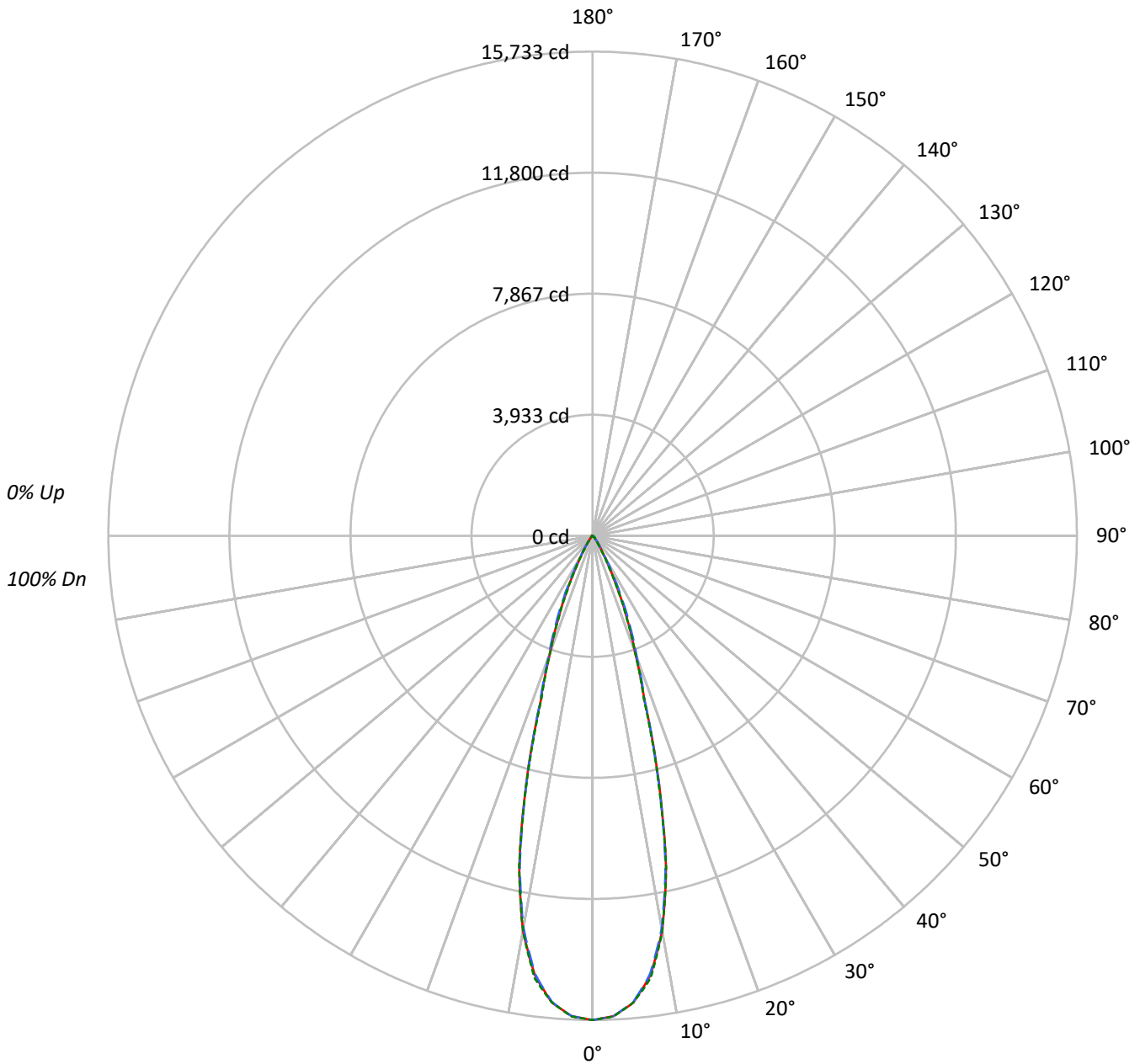


Downlight

TEST NUMBER: P792780

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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  | 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°  | 1204242 | 1204242 | 1204242 |
| 5°  | 1169671 | 1168303 | 1169733 |
| 10° | 1013112 | 1005969 | 1012871 |
| 15° | 661002  | 657452  | 654148  |
| 20° | 328690  | 341023  | 328251  |
| 25° | 165568  | 186708  | 162181  |
| 30° | 66289   | 72228   | 57759   |
| 35° | 30752   | 29453   | 24687   |
| 40° | 13279   | 14738   | 12500   |
| 45° | 9364    | 11626   | 9450    |
| 50° | 3215    | 8467    | 3406    |
| 55° | 1855    | 3510    | 1962    |
| 60° | 1301    | 1531    | 1301    |
| 65° | 833     | 833     | 833     |
| 70° | 515     | 336     | 515     |
| 75° | 0       | 237     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 11626 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1383.5 | 28.3      |
| 10°-20°   | 2228.1 | 45.5      |
| 20°-30°   | 962.8  | 19.7      |
| 30°-40°   | 219.4  | 4.5       |
| 40°-50°   | 75.4   | 1.5       |
| 50°-60°   | 18.4   | 0.4       |
| 60°-70°   | 4.8    | 0.1       |
| 70°-80°   | 0.5    | 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°    | 4574.4 | 93.5      |
| 0°-40°    | 4793.8 | 98.0      |
| 0°-60°    | 4887.6 | 99.9      |
| 0°-90°    | 4892.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4892.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 15733 | 15733 | 15733 | 15733 | 15733 |      |
| 5°  | 15223 | 15208 | 15205 | 15237 | 15224 | 1385 |
| 15° | 8341  | 8241  | 8297  | 8270  | 8255  | 2234 |
| 25° | 1960  | 2035  | 2211  | 1983  | 1920  | 938  |
| 35° | 329   | 336   | 315   | 313   | 264   | 223  |
| 45° | 86    | 107   | 107   | 107   | 87    | 61   |
| 55° | 14    | 15    | 26    | 15    | 15    | 14   |
| 65° | 5     | 5     | 5     | 5     | 5     | 5    |
| 75° | 0     | 0     | 1     | 0     | 0     | 1    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     | 0    |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 15732.8 | 15732.8 | 15732.8 | 15732.8 | 15732.8 |
| 2.5°  | 15628.5 | 15617.7 | 15623.9 | 15631.6 | 15634.7 |
| 5°    | 15223.0 | 15208.3 | 15205.2 | 15236.9 | 15223.8 |
| 7.5°  | 14405.0 | 14384.2 | 14352.5 | 14424.3 | 14491.5 |
| 10°   | 13034.7 | 13011.5 | 12942.8 | 12976.8 | 13031.6 |
| 12.5° | 11011.7 | 10936.8 | 10935.3 | 11043.4 | 11028.7 |
| 15°   | 8341.4  | 8241.0  | 8296.6  | 8269.6  | 8254.9  |
| 17.5° | 5609.4  | 5570.7  | 5644.9  | 5622.5  | 5525.9  |
| 20°   | 4035.2  | 4045.2  | 4186.6  | 4115.5  | 4029.8  |
| 22.5° | 2944.5  | 2980.8  | 3148.4  | 2965.4  | 2898.1  |
| 25°   | 1960.4  | 2034.6  | 2210.7  | 1982.8  | 1920.3  |
| 27.5° | 1205.8  | 1239.7  | 1418.2  | 1190.3  | 1156.3  |
| 30°   | 750.0   | 733.0   | 817.2   | 701.4   | 653.5   |
| 32.5° | 492.0   | 470.4   | 497.4   | 446.5   | 407.8   |
| 35°   | 329.1   | 336.0   | 315.2   | 312.8   | 264.2   |
| 37.5° | 205.5   | 236.4   | 208.6   | 222.5   | 169.9   |
| 40°   | 132.9   | 171.5   | 147.5   | 163.0   | 125.1   |
| 42.5° | 108.9   | 132.1   | 121.3   | 129.0   | 111.2   |
| 45°   | 86.5    | 107.4   | 107.4   | 107.4   | 87.3    |
| 47.5° | 47.9    | 71.8    | 91.9    | 73.4    | 51.0    |
| 50°   | 27.0    | 36.3    | 71.1    | 37.8    | 28.6    |
| 52.5° | 18.5    | 20.9    | 48.7    | 21.6    | 19.3    |
| 55°   | 13.9    | 14.7    | 26.3    | 15.4    | 14.7    |
| 57.5° | 10.8    | 11.6    | 13.9    | 11.6    | 10.8    |
| 60°   | 8.5     | 8.5     | 10.0    | 9.3     | 8.5     |
| 62.5° | 6.2     | 6.2     | 7.0     | 6.2     | 6.2     |
| 65°   | 4.6     | 4.6     | 4.6     | 4.6     | 4.6     |
| 67.5° | 2.3     | 3.1     | 3.1     | 3.1     | 3.1     |
| 70°   | 2.3     | 1.5     | 1.5     | 1.5     | 2.3     |
| 72.5° | 1.5     | 0.8     | 0.8     | 0.8     | 0.8     |
| 75°   | 0.0     | 0.0     | 0.8     | 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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