

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: P792301

Luminaire Tested: LER6D40BD010-EC6DR3040509027-6LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792301  
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: LER6D40BD010-EC6DR3040509027-6LBS1LI  
Description: 6 INCH ROUND SHALLOW 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: 4690.1 lumens  
Efficiency: N/A  
Efficacy: 133.2 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): 35.2  
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

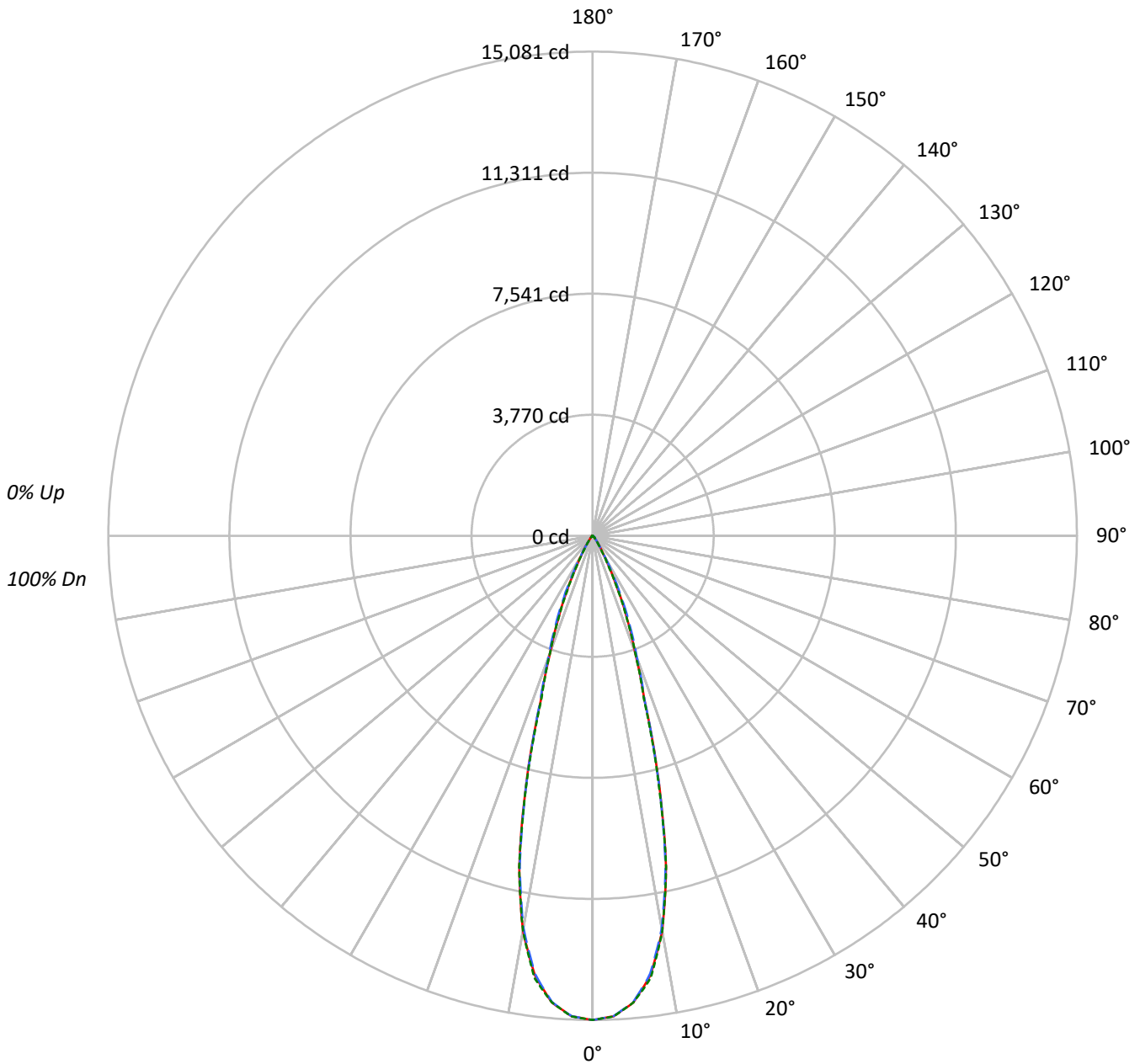


Downlight

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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  | 86  | 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°  | 1154343 | 1154343 | 1154343 |
| 5°  | 1121203 | 1119897 | 1121265 |
| 10° | 971133  | 964285  | 970900  |
| 15° | 633616  | 630216  | 627046  |
| 20° | 315071  | 326890  | 314647  |
| 25° | 158710  | 178971  | 155459  |
| 30° | 63540   | 69241   | 55364   |
| 35° | 29472   | 28229   | 23660   |
| 40° | 12730   | 14129   | 11980   |
| 45° | 8974    | 11139   | 9060    |
| 50° | 3084    | 8109    | 3263    |
| 55° | 1775    | 3363    | 1882    |
| 60° | 1240    | 1470    | 1240    |
| 65° | 797     | 797     | 797     |
| 70° | 492     | 336     | 492     |
| 75° | 0       | 207     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11139 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1326.1 | 28.3      |
| 10°-20°   | 2135.8 | 45.5      |
| 20°-30°   | 922.9  | 19.7      |
| 30°-40°   | 210.4  | 4.5       |
| 40°-50°   | 72.2   | 1.5       |
| 50°-60°   | 17.6   | 0.4       |
| 60°-70°   | 4.6    | 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°    | 4384.8 | 93.5      |
| 0°-40°    | 4595.2 | 98.0      |
| 0°-60°    | 4685.0 | 99.9      |
| 0°-90°    | 4690.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4690.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 15081 | 15081 | 15081 | 15081 | 15081 |      |
| 5°  | 14592 | 14578 | 14575 | 14606 | 14593 | 1327 |
| 15° | 7996  | 7900  | 7953  | 7927  | 7913  | 2141 |
| 25° | 1879  | 1950  | 2119  | 1901  | 1841  | 900  |
| 35° | 315   | 322   | 302   | 300   | 253   | 214  |
| 45° | 83    | 103   | 103   | 103   | 84    | 59   |
| 55° | 13    | 14    | 25    | 15    | 14    | 13   |
| 65° | 4     | 4     | 4     | 4     | 4     | 4    |
| 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°    | 15080.9 | 15080.9 | 15080.9 | 15080.9 | 15080.9 |
| 2.5°  | 14980.9 | 14970.6 | 14976.5 | 14983.9 | 14986.9 |
| 5°    | 14592.2 | 14578.1 | 14575.2 | 14605.5 | 14593.0 |
| 7.5°  | 13808.1 | 13788.1 | 13757.8 | 13826.6 | 13891.0 |
| 10°   | 12494.6 | 12472.4 | 12406.5 | 12439.1 | 12491.6 |
| 12.5° | 10555.4 | 10483.6 | 10482.1 | 10585.8 | 10571.7 |
| 15°   | 7995.8  | 7899.5  | 7952.9  | 7926.9  | 7912.9  |
| 17.5° | 5376.9  | 5339.9  | 5411.0  | 5389.5  | 5297.0  |
| 20°   | 3868.0  | 3877.6  | 4013.1  | 3945.0  | 3862.8  |
| 22.5° | 2822.5  | 2857.3  | 3018.0  | 2842.5  | 2778.1  |
| 25°   | 1879.2  | 1950.3  | 2119.1  | 1900.7  | 1840.7  |
| 27.5° | 1155.8  | 1188.4  | 1359.4  | 1141.0  | 1108.4  |
| 30°   | 718.9   | 702.7   | 783.4   | 672.3   | 626.4   |
| 32.5° | 471.6   | 450.9   | 476.8   | 428.0   | 390.9   |
| 35°   | 315.4   | 322.1   | 302.1   | 299.9   | 253.2   |
| 37.5° | 197.0   | 226.6   | 199.9   | 213.2   | 162.9   |
| 40°   | 127.4   | 164.4   | 141.4   | 156.2   | 119.9   |
| 42.5° | 104.4   | 126.6   | 116.2   | 123.7   | 106.6   |
| 45°   | 82.9    | 102.9   | 102.9   | 102.9   | 83.7    |
| 47.5° | 45.9    | 68.9    | 88.1    | 70.3    | 48.9    |
| 50°   | 25.9    | 34.8    | 68.1    | 36.3    | 27.4    |
| 52.5° | 17.8    | 20.0    | 46.6    | 20.7    | 18.5    |
| 55°   | 13.3    | 14.1    | 25.2    | 14.8    | 14.1    |
| 57.5° | 10.4    | 11.1    | 13.3    | 11.1    | 10.4    |
| 60°   | 8.1     | 8.1     | 9.6     | 8.9     | 8.1     |
| 62.5° | 5.9     | 5.9     | 6.7     | 5.9     | 5.9     |
| 65°   | 4.4     | 4.4     | 4.4     | 4.4     | 4.4     |
| 67.5° | 2.2     | 3.0     | 3.0     | 3.0     | 3.0     |
| 70°   | 2.2     | 1.5     | 1.5     | 1.5     | 2.2     |
| 72.5° | 1.5     | 0.7     | 0.7     | 0.7     | 0.7     |
| 75°   | 0.0     | 0.0     | 0.7     | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal  
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Scaled Data Report







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

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Scaled Data Report



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Scaled Data Report



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