

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: P773433

Luminaire Tested: LD6D90BD010-EU6DR3070959035-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773433  
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: LD6D90BD010-EU6DR3070959035-6LBDP1LI  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11310.4 lumens  
Efficiency: N/A  
Efficacy: 114.4 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): 98.9  
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

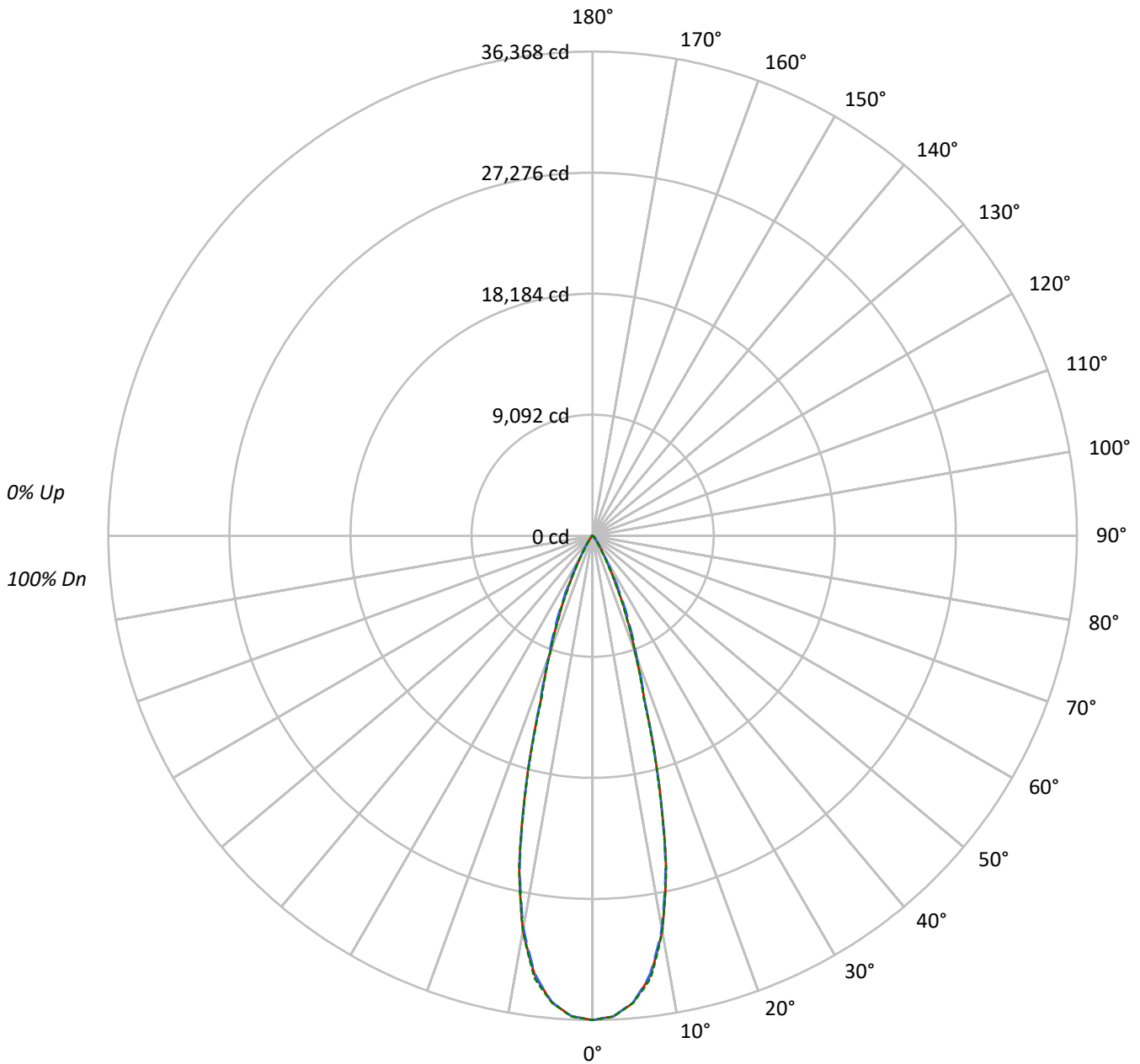


Downlight

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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°  | 2783753 | 2783753 | 2783753 |
| 5°  | 2703843 | 2700685 | 2703982 |
| 10° | 2341939 | 2325423 | 2341379 |
| 15° | 1527998 | 1519788 | 1512149 |
| 20° | 759803  | 788305  | 758785  |
| 25° | 382739  | 431597  | 374893  |
| 30° | 153241  | 166968  | 133514  |
| 35° | 71072   | 68073   | 57065   |
| 40° | 30686   | 34073   | 28907   |
| 45° | 21650   | 26867   | 21845   |
| 50° | 7443    | 19565   | 7871    |
| 55° | 4284    | 8100    | 4524    |
| 60° | 3001    | 3552    | 3001    |
| 65° | 1938    | 1938    | 1938    |
| 70° | 1209    | 806     | 1209    |
| 75° | 0       | 532     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 26867 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3198.0  | 28.3      |
| 10°-20°   | 5150.5  | 45.5      |
| 20°-30°   | 2225.7  | 19.7      |
| 30°-40°   | 507.3   | 4.5       |
| 40°-50°   | 174.2   | 1.5       |
| 50°-60°   | 42.5    | 0.4       |
| 60°-70°   | 11.0    | 0.1       |
| 70°-80°   | 1.2     | 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°    | 10574.2 | 93.5      |
| 0°-40°    | 11081.5 | 98.0      |
| 0°-60°    | 11298.2 | 99.9      |
| 0°-90°    | 11310.4 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 11310.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 36368 | 36368 | 36368 | 36368 | 36368 |      |
| 5°  | 35190 | 35156 | 35149 | 35222 | 35192 | 3201 |
| 15° | 19282 | 19050 | 19179 | 19116 | 19082 | 5163 |
| 25° | 4532  | 4703  | 5110  | 4584  | 4439  | 2169 |
| 35° | 761   | 777   | 728   | 723   | 611   | 516  |
| 45° | 200   | 248   | 248   | 248   | 202   | 142  |
| 55° | 32    | 34    | 61    | 36    | 34    | 31   |
| 65° | 11    | 11    | 11    | 11    | 11    | 11   |
| 75° | 0     | 0     | 2     | 0     | 0     | 2    |
| 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°    | 36368.3 | 36368.3 | 36368.3 | 36368.3 | 36368.3 |
| 2.5°  | 36127.3 | 36102.3 | 36116.6 | 36134.4 | 36141.6 |
| 5°    | 35189.9 | 35155.9 | 35148.8 | 35222.0 | 35191.7 |
| 7.5°  | 33299.0 | 33250.7 | 33177.5 | 33343.6 | 33498.9 |
| 10°   | 30131.4 | 30077.8 | 29918.9 | 29997.5 | 30124.2 |
| 12.5° | 25455.0 | 25281.8 | 25278.2 | 25528.2 | 25494.3 |
| 15°   | 19282.3 | 19050.2 | 19178.7 | 19116.2 | 19082.3 |
| 17.5° | 12966.8 | 12877.5 | 13048.9 | 12997.1 | 12773.9 |
| 20°   | 9327.8  | 9351.0  | 9677.7  | 9513.5  | 9315.3  |
| 22.5° | 6806.6  | 6890.5  | 7278.0  | 6854.8  | 6699.4  |
| 25°   | 4531.8  | 4703.2  | 5110.3  | 4583.5  | 4438.9  |
| 27.5° | 2787.3  | 2865.8  | 3278.3  | 2751.6  | 2673.0  |
| 30°   | 1733.8  | 1694.5  | 1889.1  | 1621.3  | 1510.6  |
| 32.5° | 1137.4  | 1087.4  | 1149.9  | 1032.1  | 942.8   |
| 35°   | 760.6   | 776.7   | 728.5   | 723.2   | 610.7   |
| 37.5° | 475.0   | 546.4   | 482.1   | 514.2   | 392.8   |
| 40°   | 307.1   | 396.4   | 341.0   | 376.8   | 289.3   |
| 42.5° | 251.8   | 305.3   | 280.3   | 298.2   | 257.1   |
| 45°   | 200.0   | 248.2   | 248.2   | 248.2   | 201.8   |
| 47.5° | 110.7   | 166.1   | 212.5   | 169.6   | 117.8   |
| 50°   | 62.5    | 83.9    | 164.3   | 87.5    | 66.1    |
| 52.5° | 42.9    | 48.2    | 112.5   | 50.0    | 44.6    |
| 55°   | 32.1    | 33.9    | 60.7    | 35.7    | 33.9    |
| 57.5° | 25.0    | 26.8    | 32.1    | 26.8    | 25.0    |
| 60°   | 19.6    | 19.6    | 23.2    | 21.4    | 19.6    |
| 62.5° | 14.3    | 14.3    | 16.1    | 14.3    | 14.3    |
| 65°   | 10.7    | 10.7    | 10.7    | 10.7    | 10.7    |
| 67.5° | 5.4     | 7.1     | 7.1     | 7.1     | 7.1     |
| 70°   | 5.4     | 3.6     | 3.6     | 3.6     | 5.4     |
| 72.5° | 3.6     | 1.8     | 1.8     | 1.8     | 1.8     |
| 75°   | 0.0     | 0.0     | 1.8     | 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     |

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  
Cooper Lighting Solutions Photometric Lab  
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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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