

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: P751442

Luminaire Tested: LD4D65D010-EU4DR3055659027-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D65D010-EU4DR3055659027-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 6307.6 lumens  
Efficiency: N/A  
Efficacy: 86.6 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

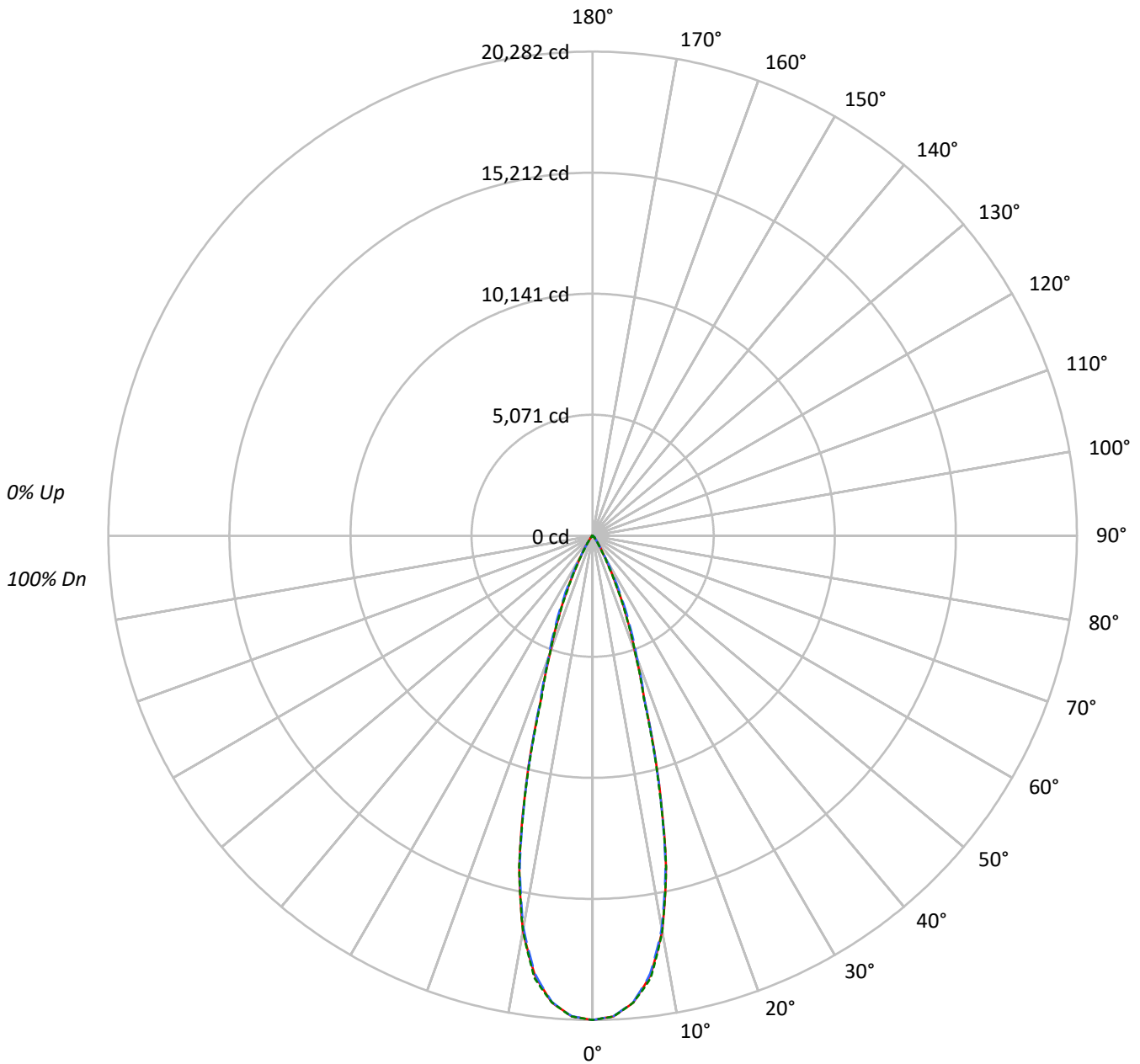
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 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°  | 1552453 | 1552453 | 1552453 |
| 5°  | 1507879 | 1506120 | 1507956 |
| 10° | 1306054 | 1296844 | 1305743 |
| 15° | 852138  | 847557  | 843302  |
| 20° | 423725  | 439625  | 423163  |
| 25° | 213446  | 240692  | 209072  |
| 30° | 85459   | 93113   | 74455   |
| 35° | 39638   | 37966   | 31826   |
| 40° | 17116   | 19005   | 16117   |
| 45° | 12070   | 14982   | 12178   |
| 50° | 4156    | 10908   | 4382    |
| 55° | 2389    | 4524    | 2522    |
| 60° | 1684    | 1975    | 1684    |
| 65° | 1087    | 1087    | 1087    |
| 70° | 671     | 448     | 671     |
| 75° | 0       | 296     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14982 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1783.5 | 28.3      |
| 10°-20°   | 2872.3 | 45.5      |
| 20°-30°   | 1241.2 | 19.7      |
| 30°-40°   | 282.9  | 4.5       |
| 40°-50°   | 97.1   | 1.5       |
| 50°-60°   | 23.7   | 0.4       |
| 60°-70°   | 6.2    | 0.1       |
| 70°-80°   | 0.7    | 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°    | 5897.0 | 93.5      |
| 0°-40°    | 6179.9 | 98.0      |
| 0°-60°    | 6300.8 | 99.9      |
| 0°-90°    | 6307.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6307.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 20282 | 20282 | 20282 | 20282 | 20282 |      |
| 5°  | 19625 | 19606 | 19602 | 19643 | 19626 | 1785 |
| 15° | 10753 | 10624 | 10696 | 10661 | 10642 | 2879 |
| 25° | 2527  | 2623  | 2850  | 2556  | 2476  | 1210 |
| 35° | 424   | 433   | 406   | 403   | 341   | 288  |
| 45° | 112   | 138   | 138   | 138   | 112   | 79   |
| 55° | 18    | 19    | 34    | 20    | 19    | 17   |
| 65° | 6     | 6     | 6     | 6     | 6     | 6    |
| 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°    | 20282.0 | 20282.0 | 20282.0 | 20282.0 | 20282.0 |
| 2.5°  | 20147.5 | 20133.6 | 20141.6 | 20151.5 | 20155.5 |
| 5°    | 19624.7 | 19605.8 | 19601.8 | 19642.7 | 19625.7 |
| 7.5°  | 18570.2 | 18543.3 | 18502.5 | 18595.1 | 18681.7 |
| 10°   | 16803.7 | 16773.8 | 16685.2 | 16729.0 | 16799.7 |
| 12.5° | 14195.8 | 14099.2 | 14097.2 | 14236.6 | 14217.7 |
| 15°   | 10753.4 | 10623.9 | 10695.6 | 10660.8 | 10641.9 |
| 17.5° | 7231.3  | 7181.5  | 7277.1  | 7248.3  | 7123.8  |
| 20°   | 5201.9  | 5214.9  | 5397.1  | 5305.5  | 5195.0  |
| 22.5° | 3795.9  | 3842.7  | 4058.8  | 3822.8  | 3736.2  |
| 25°   | 2527.3  | 2622.9  | 2849.9  | 2556.2  | 2475.5  |
| 27.5° | 1554.4  | 1598.2  | 1828.2  | 1534.5  | 1490.7  |
| 30°   | 966.9   | 945.0   | 1053.5  | 904.2   | 842.4   |
| 32.5° | 634.3   | 606.4   | 641.3   | 575.6   | 525.8   |
| 35°   | 424.2   | 433.2   | 406.3   | 403.3   | 340.6   |
| 37.5° | 264.9   | 304.7   | 268.9   | 286.8   | 219.1   |
| 40°   | 171.3   | 221.1   | 190.2   | 210.1   | 161.3   |
| 42.5° | 140.4   | 170.3   | 156.3   | 166.3   | 143.4   |
| 45°   | 111.5   | 138.4   | 138.4   | 138.4   | 112.5   |
| 47.5° | 61.7    | 92.6    | 118.5   | 94.6    | 65.7    |
| 50°   | 34.9    | 46.8    | 91.6    | 48.8    | 36.8    |
| 52.5° | 23.9    | 26.9    | 62.7    | 27.9    | 24.9    |
| 55°   | 17.9    | 18.9    | 33.9    | 19.9    | 18.9    |
| 57.5° | 13.9    | 14.9    | 17.9    | 14.9    | 13.9    |
| 60°   | 11.0    | 11.0    | 12.9    | 11.9    | 11.0    |
| 62.5° | 8.0     | 8.0     | 9.0     | 8.0     | 8.0     |
| 65°   | 6.0     | 6.0     | 6.0     | 6.0     | 6.0     |
| 67.5° | 3.0     | 4.0     | 4.0     | 4.0     | 4.0     |
| 70°   | 3.0     | 2.0     | 2.0     | 2.0     | 3.0     |
| 72.5° | 2.0     | 1.0     | 1.0     | 1.0     | 1.0     |
| 75°   | 0.0     | 0.0     | 1.0     | 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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