

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: P748902

Luminaire Tested: LD4D45BD010-EU4DR6540509035-4LBSQW1MW

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748902  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D45BD010-EU4DR6540509035-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

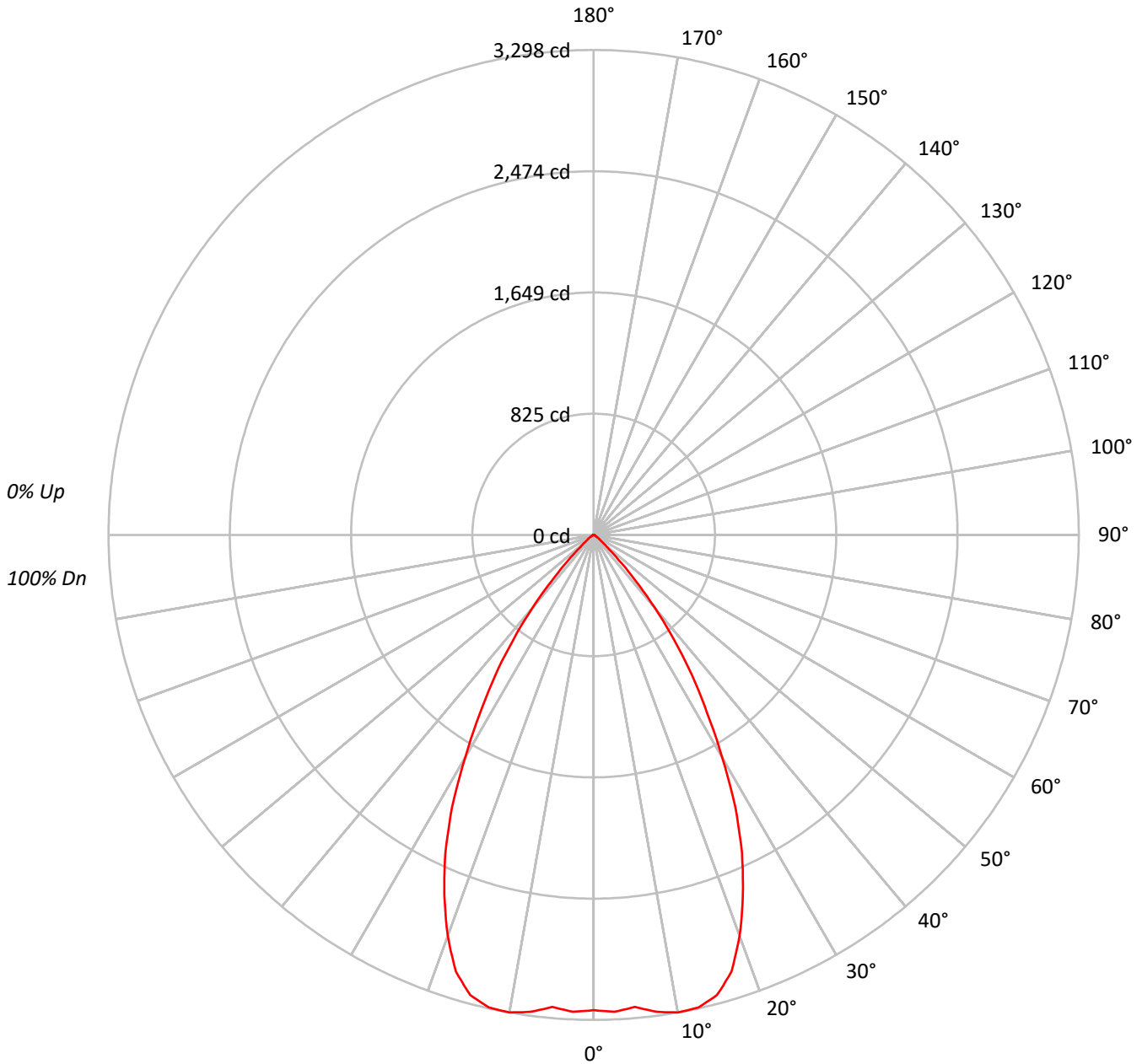
Lumens per Lamp: N/A  
Luminaire Lumens: 3282.7 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|---|
| RF  | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |    |    | 20 |   |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 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   | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |    |    |    |   |
| 2   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 94  | 98  | 95  | 92  | 95  | 92  | 90  | 92  | 90  | 88  | 87  |    |    |    |   |
| 3   | 102 | 96  | 91  | 87  | 100 | 94  | 90  | 86  | 92  | 88  | 85  | 89  | 86  | 83  | 87  | 84  | 82  | 80  |    |    |    |   |
| 4   | 97  | 89  | 84  | 79  | 95  | 88  | 83  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 75  |    |    |    |   |
| 5   | 92  | 83  | 78  | 73  | 90  | 83  | 77  | 73  | 81  | 76  | 72  | 79  | 75  | 72  | 77  | 74  | 71  | 69  |    |    |    |   |
| 6   | 87  | 78  | 72  | 68  | 86  | 77  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 65  |    |    |    |   |
| 7   | 83  | 73  | 67  | 63  | 81  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 66  | 62  | 69  | 65  | 62  | 60  |    |    |    |   |
| 8   | 79  | 69  | 63  | 59  | 77  | 68  | 63  | 59  | 67  | 62  | 58  | 66  | 62  | 58  | 65  | 61  | 58  | 57  |    |    |    |   |
| 9   | 75  | 65  | 59  | 55  | 74  | 65  | 59  | 55  | 64  | 58  | 55  | 63  | 58  | 55  | 62  | 58  | 54  | 53  |    |    |    |   |
| 10  | 71  | 61  | 56  | 52  | 70  | 61  | 55  | 52  | 60  | 55  | 51  | 59  | 55  | 51  | 59  | 54  | 51  | 50  |    |    |    |   |

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

|     | 0°     |
|-----|--------|
| 0°  | 353131 |
| 5°  | 353427 |
| 10° | 365868 |
| 15° | 366470 |
| 20° | 337401 |
| 25° | 287478 |
| 30° | 220080 |
| 35° | 155484 |
| 40° | 91782  |
| 45° | 37254  |
| 50° | 13513  |
| 55° | 7524   |
| 60° | 4305   |
| 65° | 2379   |
| 70° | 2492   |
| 75° | 1942   |
| 80° | 2013   |
| 85° | 1755   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 37254 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 311.2  | 9.5       |
| 10°-20°   | 897.7  | 27.3      |
| 20°-30°   | 1077.1 | 32.8      |
| 30°-40°   | 723.8  | 22.1      |
| 40°-50°   | 216.7  | 6.6       |
| 50°-60°   | 38.2   | 1.2       |
| 60°-70°   | 10.9   | 0.3       |
| 70°-80°   | 5.3    | 0.2       |
| 80°-90°   | 1.7    | 0.1       |
| 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°    | 2286.0 | 69.6      |
| 0°-40°    | 3009.9 | 91.7      |
| 0°-60°    | 3264.8 | 99.5      |
| 0°-90°    | 3282.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3282.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3232 |      |
| 5°  | 3222 | 311  |
| 15° | 3240 | 898  |
| 25° | 2385 | 1077 |
| 35° | 1166 | 724  |
| 45° | 241  | 217  |
| 55° | 40   | 38   |
| 65° | 9    | 11   |
| 75° | 5    | 5    |
| 85° | 1    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3232.0 |
| 2.5°  | 3245.8 |
| 5°    | 3222.4 |
| 7.5°  | 3271.0 |
| 10°   | 3297.7 |
| 12.5° | 3291.2 |
| 15°   | 3239.8 |
| 17.5° | 3114.0 |
| 20°   | 2901.8 |
| 22.5° | 2651.9 |
| 25°   | 2384.6 |
| 27.5° | 2082.9 |
| 30°   | 1744.4 |
| 32.5° | 1437.6 |
| 35°   | 1165.7 |
| 37.5° | 897.0  |
| 40°   | 643.5  |
| 42.5° | 420.2  |
| 45°   | 241.1  |
| 47.5° | 127.7  |
| 50°   | 79.5   |
| 52.5° | 55.1   |
| 55°   | 39.5   |
| 57.5° | 28.5   |
| 60°   | 19.7   |
| 62.5° | 12.9   |
| 65°   | 9.2    |
| 67.5° | 8.3    |
| 70°   | 7.8    |
| 72.5° | 6.0    |
| 75°   | 4.6    |
| 77.5° | 4.1    |
| 80°   | 3.2    |
| 82.5° | 2.3    |
| 85°   | 1.4    |
| 87.5° | 0.9    |
| 90°   | 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

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Scaled Data Report



— 0°-180°

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Scaled Data Report



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