

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: P791650

Luminaire Tested: LER6D30D010-EC6DR6020359040-6LBDP1MW

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P791650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER6D30D010-EC6DR6020359040-6LB DP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5480.5 lumens  
Efficiency: N/A  
Efficacy: 189.0 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

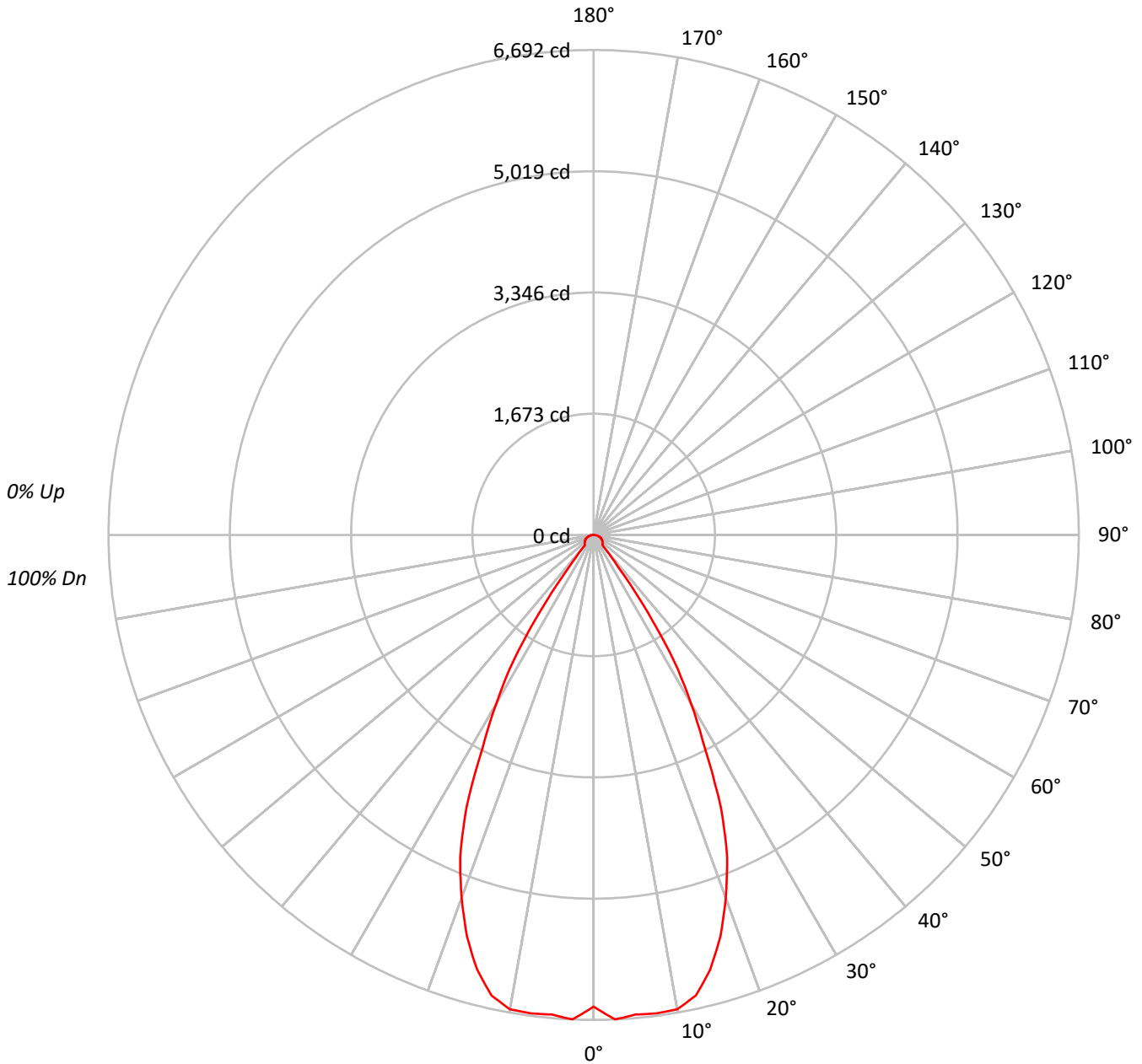
Input Watts (W): 29  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 96  | 95  | 93  |    |    |
| 2   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 97  | 94  | 92  | 94  | 92  | 90  | 92  | 90  | 88  | 86  |    |    |
| 3   | 102 | 96  | 90  | 86  | 100 | 94  | 89  | 86  | 91  | 88  | 84  | 89  | 86  | 83  | 87  | 84  | 82  | 80  |    |    |
| 4   | 97  | 89  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 75  |    |    |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 78  | 74  | 81  | 77  | 73  | 80  | 76  | 72  | 78  | 75  | 72  | 70  |    |    |
| 6   | 88  | 79  | 73  | 69  | 87  | 78  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 68  | 74  | 70  | 67  | 66  |    |    |
| 7   | 84  | 75  | 69  | 65  | 83  | 74  | 68  | 64  | 73  | 68  | 64  | 72  | 67  | 64  | 71  | 67  | 63  | 62  |    |    |
| 8   | 80  | 71  | 65  | 61  | 79  | 70  | 65  | 61  | 69  | 64  | 60  | 68  | 64  | 60  | 67  | 63  | 60  | 59  |    |    |
| 9   | 77  | 67  | 61  | 57  | 75  | 67  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 57  | 55  |    |    |
| 10  | 73  | 64  | 58  | 54  | 72  | 63  | 58  | 54  | 62  | 58  | 54  | 62  | 57  | 54  | 61  | 57  | 54  | 53  |    |    |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 711145 |
| 5°  | 728636 |
| 10° | 737438 |
| 15° | 702512 |
| 20° | 619397 |
| 25° | 500982 |
| 30° | 338875 |
| 35° | 169810 |
| 40° | 27542  |
| 45° | 26963  |
| 50° | 27503  |
| 55° | 27907  |
| 60° | 28692  |
| 65° | 29343  |
| 70° | 30029  |
| 75° | 30395  |
| 80° | 29321  |
| 85° | 24446  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 75°  
 Luminance: 30395 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 634.9  | 11.6      |
| 10°-20°   | 1717.9 | 31.3      |
| 20°-30°   | 1848.3 | 33.7      |
| 30°-40°   | 803.4  | 14.7      |
| 40°-50°   | 135.0  | 2.5       |
| 50°-60°   | 131.2  | 2.4       |
| 60°-70°   | 112.2  | 2.0       |
| 70°-80°   | 75.1   | 1.4       |
| 80°-90°   | 22.5   | 0.4       |
| 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°    | 4201.1 | 76.7      |
| 0°-40°    | 5004.5 | 91.3      |
| 0°-60°    | 5270.7 | 96.2      |
| 0°-90°    | 5480.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5480.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 6509 |      |
| 5°  | 6643 | 635  |
| 15° | 6211 | 1718 |
| 25° | 4156 | 1848 |
| 35° | 1273 | 803  |
| 45° | 174  | 135  |
| 55° | 146  | 131  |
| 65° | 114  | 112  |
| 75° | 72   | 75   |
| 85° | 20   | 22   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 6508.7 |
| 2.5°  | 6691.7 |
| 5°    | 6643.4 |
| 7.5°  | 6658.6 |
| 10°   | 6646.8 |
| 12.5° | 6509.6 |
| 15°   | 6210.6 |
| 17.5° | 5809.1 |
| 20°   | 5327.1 |
| 22.5° | 4811.2 |
| 25°   | 4155.6 |
| 27.5° | 3323.8 |
| 30°   | 2686.0 |
| 32.5° | 2070.2 |
| 35°   | 1273.1 |
| 37.5° | 544.7  |
| 40°   | 193.1  |
| 42.5° | 177.9  |
| 45°   | 174.5  |
| 47.5° | 168.6  |
| 50°   | 161.8  |
| 52.5° | 154.2  |
| 55°   | 146.5  |
| 57.5° | 138.9  |
| 60°   | 131.3  |
| 62.5° | 122.8  |
| 65°   | 113.5  |
| 67.5° | 104.2  |
| 70°   | 94.0   |
| 72.5° | 83.0   |
| 75°   | 72.0   |
| 77.5° | 59.3   |
| 80°   | 46.6   |
| 82.5° | 33.0   |
| 85°   | 19.5   |
| 87.5° | 6.8    |
| 90°   | 0.0    |

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Scaled Data Report



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— 0°-180°

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