

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: P790186

Luminaire Tested: LER6D20D010-EC6DR3020359027-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790186  
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: LER6D20D010-EC6DR3020359027-6LB DP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2823.8 lumens  
Efficiency: N/A  
Efficacy: 122.2 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

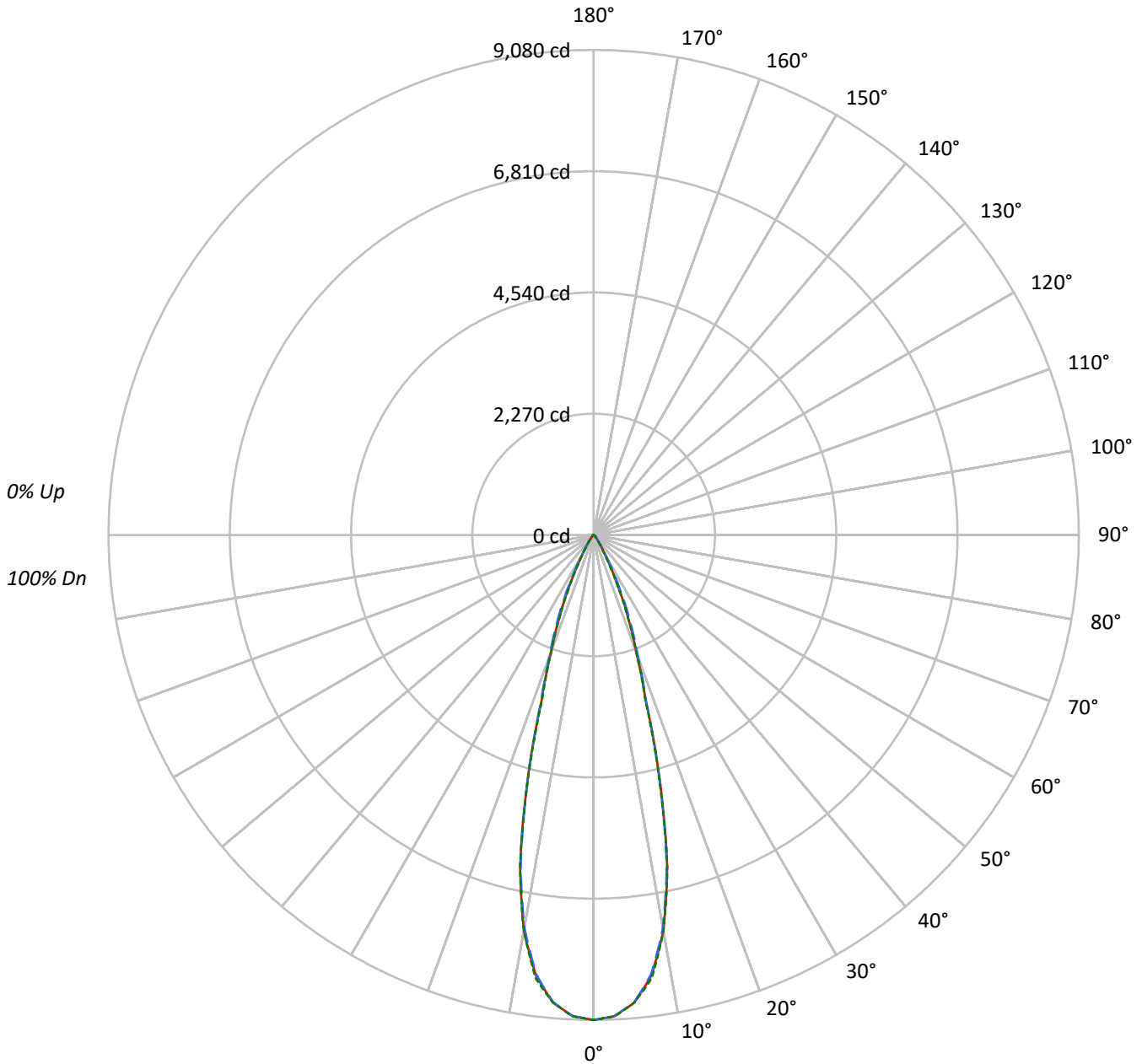
Input Watts (W): 23.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°  | 694999 | 694999 | 694999 |
| 5°  | 675048 | 674265 | 675087 |
| 10° | 584696 | 580569 | 584556 |
| 15° | 381486 | 379434 | 377524 |
| 20° | 189694 | 196813 | 189442 |
| 25° | 95554  | 107749 | 93594  |
| 30° | 38262  | 41682  | 33330  |
| 35° | 17745  | 16997  | 14250  |
| 40° | 7664   | 8503   | 7214   |
| 45° | 5402   | 6711   | 5456   |
| 50° | 1858   | 4882   | 1965   |
| 55° | 1068   | 2028   | 1134   |
| 60° | 750    | 888    | 750    |
| 65° | 489    | 489    | 489    |
| 70° | 291    | 201    | 291    |
| 75° | 0      | 118    | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6711 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 798.4  | 28.3      |
| 10°-20°   | 1285.9 | 45.5      |
| 20°-30°   | 555.7  | 19.7      |
| 30°-40°   | 126.7  | 4.5       |
| 40°-50°   | 43.5   | 1.5       |
| 50°-60°   | 10.6   | 0.4       |
| 60°-70°   | 2.8    | 0.1       |
| 70°-80°   | 0.3    | 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°    | 2640.0 | 93.5      |
| 0°-40°    | 2766.6 | 98.0      |
| 0°-60°    | 2820.7 | 99.9      |
| 0°-90°    | 2823.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2823.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 9080 | 9080  | 9080 | 9080  | 9080 |      |
| 5°  | 8786 | 8777  | 8775 | 8794  | 8786 | 799  |
| 15° | 4814 | 4756  | 4788 | 4773  | 4764 | 1289 |
| 25° | 1131 | 1174  | 1276 | 1144  | 1108 | 542  |
| 35° | 190  | 194   | 182  | 180   | 152  | 129  |
| 45° | 50   | 62    | 62   | 62    | 50   | 35   |
| 55° | 8    | 8     | 15   | 9     | 8    | 8    |
| 65° | 3    | 3     | 3    | 3     | 3    | 3    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 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°    | 9079.8 | 9079.8 | 9079.8 | 9079.8 | 9079.8 |
| 2.5°  | 9019.6 | 9013.4 | 9017.0 | 9021.4 | 9023.2 |
| 5°    | 8785.6 | 8777.1 | 8775.4 | 8793.6 | 8786.1 |
| 7.5°  | 8313.5 | 8301.5 | 8283.2 | 8324.7 | 8363.4 |
| 10°   | 7522.7 | 7509.3 | 7469.6 | 7489.3 | 7520.9 |
| 12.5° | 6355.2 | 6311.9 | 6311.0 | 6373.4 | 6365.0 |
| 15°   | 4814.1 | 4756.1 | 4788.2 | 4772.6 | 4764.1 |
| 17.5° | 3237.3 | 3215.0 | 3257.8 | 3244.9 | 3189.2 |
| 20°   | 2328.8 | 2334.6 | 2416.2 | 2375.2 | 2325.7 |
| 22.5° | 1699.3 | 1720.3 | 1817.0 | 1711.4 | 1672.6 |
| 25°   | 1131.4 | 1174.2 | 1275.8 | 1144.3 | 1108.2 |
| 27.5° | 695.9  | 715.5  | 818.5  | 687.0  | 667.3  |
| 30°   | 432.9  | 423.1  | 471.6  | 404.8  | 377.1  |
| 32.5° | 284.0  | 271.5  | 287.1  | 257.7  | 235.4  |
| 35°   | 189.9  | 193.9  | 181.9  | 180.5  | 152.5  |
| 37.5° | 118.6  | 136.4  | 120.4  | 128.4  | 98.1   |
| 40°   | 76.7   | 99.0   | 85.1   | 94.1   | 72.2   |
| 42.5° | 62.9   | 76.2   | 70.0   | 74.4   | 64.2   |
| 45°   | 49.9   | 62.0   | 62.0   | 62.0   | 50.4   |
| 47.5° | 27.6   | 41.5   | 53.0   | 42.3   | 29.4   |
| 50°   | 15.6   | 21.0   | 41.0   | 21.8   | 16.5   |
| 52.5° | 10.7   | 12.0   | 28.1   | 12.5   | 11.1   |
| 55°   | 8.0    | 8.5    | 15.2   | 8.9    | 8.5    |
| 57.5° | 6.2    | 6.7    | 8.0    | 6.7    | 6.2    |
| 60°   | 4.9    | 4.9    | 5.8    | 5.3    | 4.9    |
| 62.5° | 3.6    | 3.6    | 4.0    | 3.6    | 3.6    |
| 65°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 67.5° | 1.3    | 1.8    | 1.8    | 1.8    | 1.8    |
| 70°   | 1.3    | 0.9    | 0.9    | 0.9    | 1.3    |
| 72.5° | 0.9    | 0.4    | 0.4    | 0.4    | 0.4    |
| 75°   | 0.0    | 0.0    | 0.4    | 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



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Scaled Data Report







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

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Scaled Data Report



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