

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: P773409

Luminaire Tested: LD6D90BD010-EU6DR3070959027-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773409  
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-EU6DR3070959027-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10211.5 lumens  
Efficiency: N/A  
Efficacy: 103.3 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

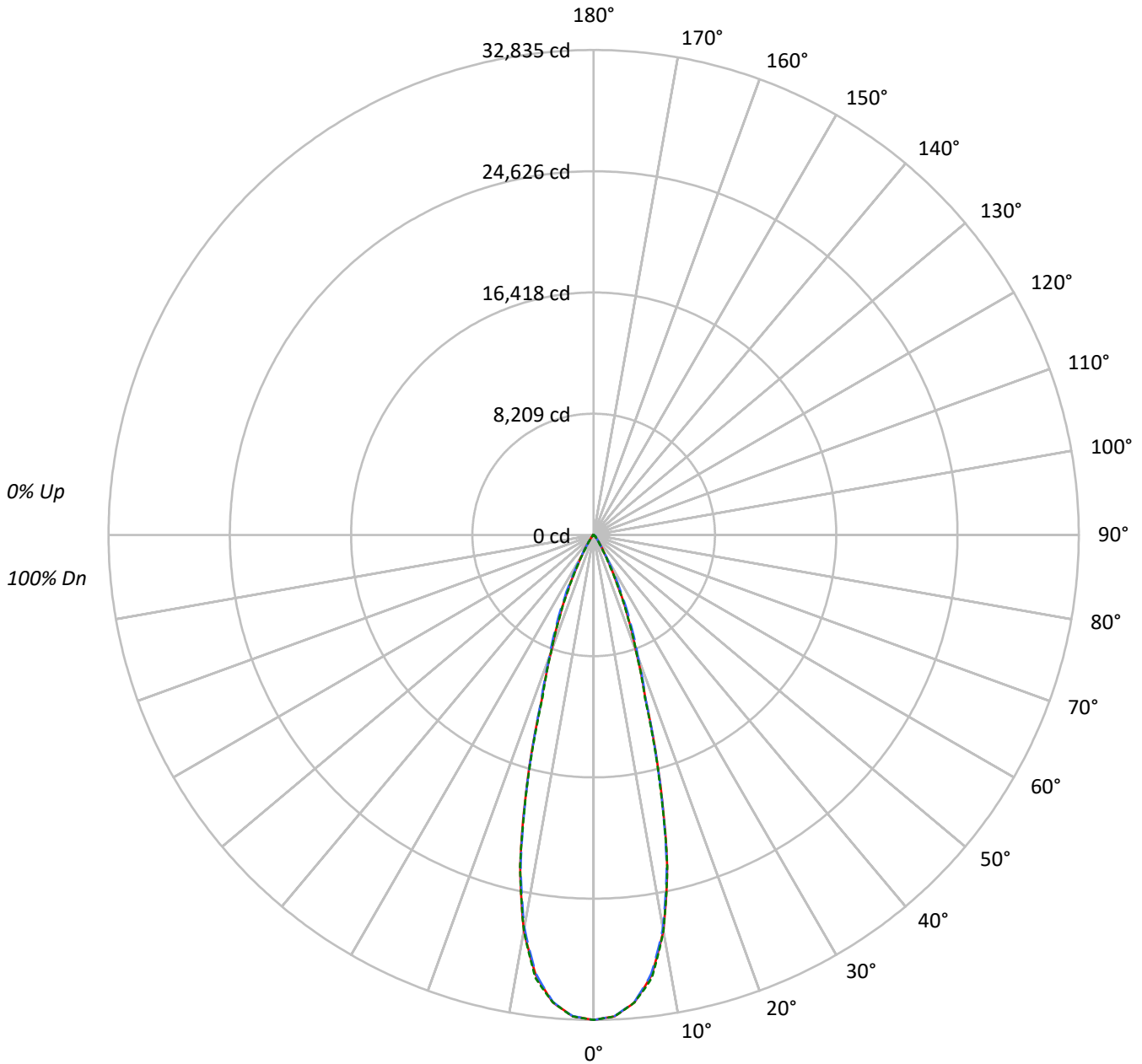
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 |    |    |    |    |    |   |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 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°  | 2513310 | 2513310 | 2513310 |
| 5°  | 2441157 | 2438307 | 2441280 |
| 10° | 2114409 | 2099502 | 2113912 |
| 15° | 1379551 | 1372142 | 1365240 |
| 20° | 685988  | 711720  | 685068  |
| 25° | 345553  | 389664  | 338475  |
| 30° | 138349  | 150749  | 120539  |
| 35° | 64176   | 61457   | 51515   |
| 40° | 27708   | 30765   | 26099   |
| 45° | 19550   | 24259   | 19723   |
| 50° | 6716    | 17660   | 7097    |
| 55° | 3870    | 7313    | 4084    |
| 60° | 2710    | 3215    | 2710    |
| 65° | 1757    | 1757    | 1757    |
| 70° | 1074    | 716     | 1074    |
| 75° | 0       | 473     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 24259 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2887.3  | 28.3      |
| 10°-20°   | 4650.1  | 45.5      |
| 20°-30°   | 2009.4  | 19.7      |
| 30°-40°   | 458.0   | 4.5       |
| 40°-50°   | 157.3   | 1.5       |
| 50°-60°   | 38.4    | 0.4       |
| 60°-70°   | 9.9     | 0.1       |
| 70°-80°   | 1.0     | 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°    | 9546.9  | 93.5      |
| 0°-40°    | 10004.9 | 98.0      |
| 0°-60°    | 10200.5 | 99.9      |
| 0°-90°    | 10211.5 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10211.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 32835 | 32835 | 32835 | 32835 | 32835 |      |
| 5°  | 31771 | 31740 | 31734 | 31800 | 31773 | 2890 |
| 15° | 17409 | 17199 | 17316 | 17259 | 17228 | 4661 |
| 25° | 4092  | 4246  | 4614  | 4138  | 4008  | 1958 |
| 35° | 687   | 701   | 658   | 653   | 551   | 466  |
| 45° | 181   | 224   | 224   | 224   | 182   | 128  |
| 55° | 29    | 31    | 55    | 32    | 31    | 28   |
| 65° | 10    | 10    | 10    | 10    | 10    | 10   |
| 75° | 0     | 0     | 2     | 0     | 0     | 1    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 32835.1 | 32835.1 | 32835.1 | 32835.1 | 32835.1 |
| 2.5°  | 32617.4 | 32594.9 | 32607.8 | 32623.9 | 32630.3 |
| 5°    | 31771.1 | 31740.5 | 31734.0 | 31800.1 | 31772.7 |
| 7.5°  | 30063.9 | 30020.4 | 29954.3 | 30104.2 | 30244.4 |
| 10°   | 27204.0 | 27155.7 | 27012.2 | 27083.1 | 27197.6 |
| 12.5° | 22982.0 | 22825.6 | 22822.4 | 23048.1 | 23017.4 |
| 15°   | 17409.0 | 17199.4 | 17315.5 | 17259.0 | 17228.4 |
| 17.5° | 11707.0 | 11626.4 | 11781.2 | 11734.4 | 11532.9 |
| 20°   | 8421.6  | 8442.5  | 8737.5  | 8589.2  | 8410.3  |
| 22.5° | 6145.3  | 6221.1  | 6570.9  | 6188.8  | 6048.6  |
| 25°   | 4091.5  | 4246.2  | 4613.8  | 4138.2  | 4007.7  |
| 27.5° | 2516.5  | 2587.4  | 2959.8  | 2484.2  | 2413.3  |
| 30°   | 1565.3  | 1529.9  | 1705.6  | 1463.8  | 1363.8  |
| 32.5° | 1026.9  | 981.8   | 1038.2  | 931.8   | 851.2   |
| 35°   | 686.8   | 701.3   | 657.7   | 652.9   | 551.3   |
| 37.5° | 428.8   | 493.3   | 435.3   | 464.3   | 354.7   |
| 40°   | 277.3   | 357.9   | 307.9   | 340.2   | 261.2   |
| 42.5° | 227.3   | 275.7   | 253.1   | 269.2   | 232.1   |
| 45°   | 180.6   | 224.1   | 224.1   | 224.1   | 182.2   |
| 47.5° | 99.9    | 149.9   | 191.8   | 153.1   | 106.4   |
| 50°   | 56.4    | 75.8    | 148.3   | 79.0    | 59.6    |
| 52.5° | 38.7    | 43.5    | 101.6   | 45.1    | 40.3    |
| 55°   | 29.0    | 30.6    | 54.8    | 32.2    | 30.6    |
| 57.5° | 22.6    | 24.2    | 29.0    | 24.2    | 22.6    |
| 60°   | 17.7    | 17.7    | 21.0    | 19.3    | 17.7    |
| 62.5° | 12.9    | 12.9    | 14.5    | 12.9    | 12.9    |
| 65°   | 9.7     | 9.7     | 9.7     | 9.7     | 9.7     |
| 67.5° | 4.8     | 6.4     | 6.4     | 6.4     | 6.4     |
| 70°   | 4.8     | 3.2     | 3.2     | 3.2     | 4.8     |
| 72.5° | 3.2     | 1.6     | 1.6     | 1.6     | 1.6     |
| 75°   | 0.0     | 0.0     | 1.6     | 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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