

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: P771108

Luminaire Tested: LD6D75BD010-EU6DR3070959040-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771108  
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: LD6D75BD010-EU6DR3070959040-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8697.1 lumens  
Efficiency: N/A  
Efficacy: 120.1 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): 72.4  
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

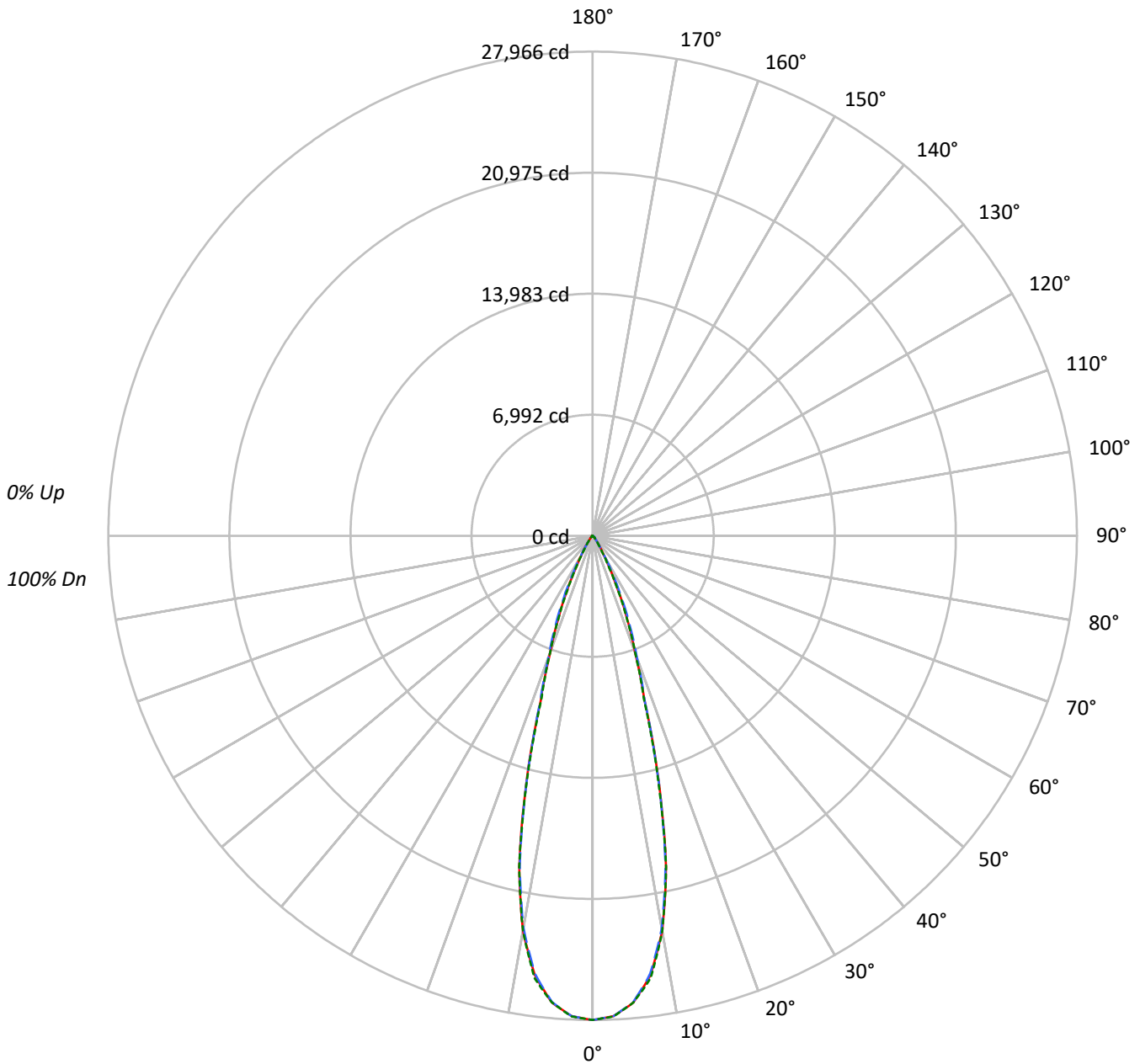


Downlight

TEST NUMBER: P771108

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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 | 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°  | 2140582 | 2140582 | 2140582 |
| 5°  | 2079130 | 2076702 | 2079238 |
| 10° | 1800839 | 1788139 | 1800411 |
| 15° | 1174960 | 1168652 | 1162772 |
| 20° | 584250  | 606169  | 583468  |
| 25° | 294305  | 331879  | 288275  |
| 30° | 117834  | 128388  | 102668  |
| 35° | 54654   | 52346   | 43880   |
| 40° | 23601   | 26199   | 22222   |
| 45° | 16649   | 20654   | 16800   |
| 50° | 5728    | 15040   | 6049    |
| 55° | 3296    | 6232    | 3483    |
| 60° | 2312    | 2725    | 2312    |
| 65° | 1485    | 1485    | 1485    |
| 70° | 918     | 604     | 918     |
| 75° | 0       | 414     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 20654 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2459.1 | 28.3      |
| 10°-20°   | 3960.5 | 45.5      |
| 20°-30°   | 1711.4 | 19.7      |
| 30°-40°   | 390.1  | 4.5       |
| 40°-50°   | 133.9  | 1.5       |
| 50°-60°   | 32.7   | 0.4       |
| 60°-70°   | 8.5    | 0.1       |
| 70°-80°   | 0.9    | 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°    | 8131.1 | 93.5      |
| 0°-40°    | 8521.1 | 98.0      |
| 0°-60°    | 8687.8 | 99.9      |
| 0°-90°    | 8697.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8697.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 27966 | 27966 | 27966 | 27966 | 27966 |      |
| 5°  | 27059 | 27033 | 27028 | 27084 | 27061 | 2461 |
| 15° | 14827 | 14649 | 14748 | 14700 | 14673 | 3970 |
| 25° | 3485  | 3616  | 3930  | 3524  | 3413  | 1668 |
| 35° | 585   | 597   | 560   | 556   | 470   | 397  |
| 45° | 154   | 191   | 191   | 191   | 155   | 109  |
| 55° | 25    | 26    | 47    | 28    | 26    | 24   |
| 65° | 8     | 8     | 8     | 8     | 8     | 8    |
| 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°    | 27965.6 | 27965.6 | 27965.6 | 27965.6 | 27965.6 |
| 2.5°  | 27780.2 | 27761.0 | 27772.0 | 27785.7 | 27791.2 |
| 5°    | 27059.4 | 27033.3 | 27027.8 | 27084.1 | 27060.8 |
| 7.5°  | 25605.4 | 25568.3 | 25512.0 | 25639.7 | 25759.1 |
| 10°   | 23169.6 | 23128.4 | 23006.2 | 23066.7 | 23164.1 |
| 12.5° | 19573.7 | 19440.5 | 19437.8 | 19630.0 | 19603.9 |
| 15°   | 14827.2 | 14648.7 | 14747.6 | 14699.5 | 14673.4 |
| 17.5° | 9970.8  | 9902.2  | 10034.0 | 9994.2  | 9822.5  |
| 20°   | 7172.6  | 7190.5  | 7441.7  | 7315.4  | 7163.0  |
| 22.5° | 5233.9  | 5298.5  | 5596.4  | 5271.0  | 5151.6  |
| 25°   | 3484.7  | 3616.5  | 3929.6  | 3524.5  | 3413.3  |
| 27.5° | 2143.3  | 2203.7  | 2520.9  | 2115.8  | 2055.4  |
| 30°   | 1333.2  | 1303.0  | 1452.6  | 1246.7  | 1161.6  |
| 32.5° | 874.6   | 836.2   | 884.2   | 793.6   | 725.0   |
| 35°   | 584.9   | 597.3   | 560.2   | 556.1   | 469.6   |
| 37.5° | 365.2   | 420.1   | 370.7   | 395.4   | 302.1   |
| 40°   | 236.2   | 304.8   | 262.2   | 289.7   | 222.4   |
| 42.5° | 193.6   | 234.8   | 215.6   | 229.3   | 197.7   |
| 45°   | 153.8   | 190.8   | 190.8   | 190.8   | 155.2   |
| 47.5° | 85.1    | 127.7   | 163.4   | 130.4   | 90.6    |
| 50°   | 48.1    | 64.5    | 126.3   | 67.3    | 50.8    |
| 52.5° | 33.0    | 37.1    | 86.5    | 38.4    | 34.3    |
| 55°   | 24.7    | 26.1    | 46.7    | 27.5    | 26.1    |
| 57.5° | 19.2    | 20.6    | 24.7    | 20.6    | 19.2    |
| 60°   | 15.1    | 15.1    | 17.8    | 16.5    | 15.1    |
| 62.5° | 11.0    | 11.0    | 12.4    | 11.0    | 11.0    |
| 65°   | 8.2     | 8.2     | 8.2     | 8.2     | 8.2     |
| 67.5° | 4.1     | 5.5     | 5.5     | 5.5     | 5.5     |
| 70°   | 4.1     | 2.7     | 2.7     | 2.7     | 4.1     |
| 72.5° | 2.7     | 1.4     | 1.4     | 1.4     | 1.4     |
| 75°   | 0.0     | 0.0     | 1.4     | 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     |

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Scaled Data Report



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Scaled Data Report







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

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