

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: P771056

Luminaire Tested: LD6D75BD010-EU6DR3070959024-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771056  
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-EU6DR3070959024-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7045.4 lumens  
Efficiency: N/A  
Efficacy: 97.3 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): 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

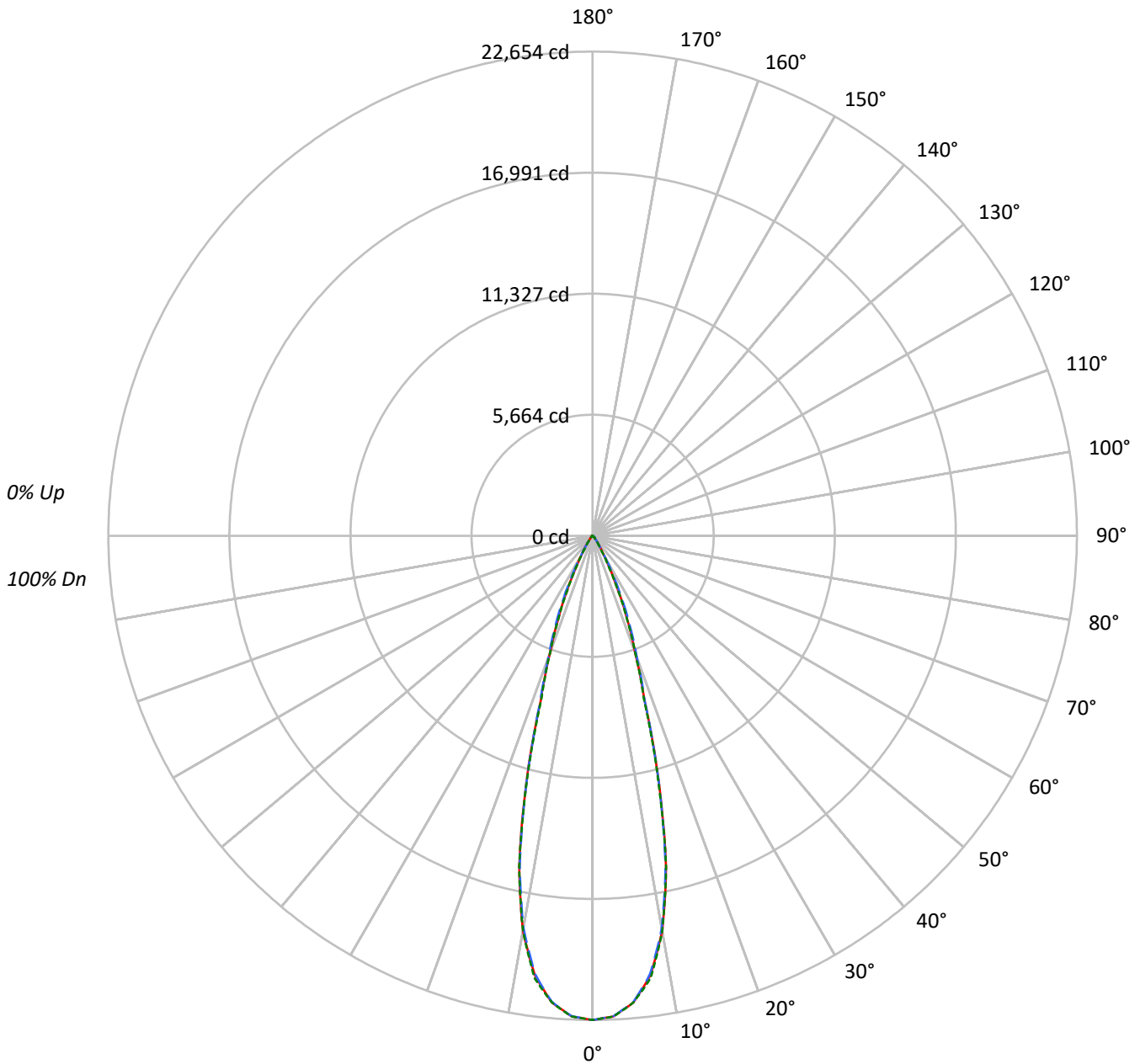


Downlight

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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°  | 1734052 | 1734052 | 1734052 |
| 5°  | 1684271 | 1682304 | 1684356 |
| 10° | 1458829 | 1448546 | 1458487 |
| 15° | 951818  | 946707  | 941944  |
| 20° | 473291  | 491048  | 472655  |
| 25° | 238412  | 268850  | 233530  |
| 30° | 95455   | 104011  | 83170   |
| 35° | 44273   | 42404   | 35545   |
| 40° | 19115   | 21223   | 18006   |
| 45° | 13488   | 16735   | 13607   |
| 50° | 4632    | 12182   | 4906    |
| 55° | 2669    | 5044    | 2816    |
| 60° | 1868    | 2220    | 1868    |
| 65° | 1213    | 1213    | 1213    |
| 70° | 739     | 492     | 739     |
| 75° | 0       | 325     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 16735 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1992.1 | 28.3      |
| 10°-20°   | 3208.3 | 45.5      |
| 20°-30°   | 1386.4 | 19.7      |
| 30°-40°   | 316.0  | 4.5       |
| 40°-50°   | 108.5  | 1.5       |
| 50°-60°   | 26.5   | 0.4       |
| 60°-70°   | 6.9    | 0.1       |
| 70°-80°   | 0.7    | 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°    | 6586.8 | 93.5      |
| 0°-40°    | 6902.8 | 98.0      |
| 0°-60°    | 7037.8 | 99.9      |
| 0°-90°    | 7045.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7045.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 22654 | 22654 | 22654 | 22654 | 22654 |      |
| 5°  | 21920 | 21899 | 21895 | 21940 | 21922 | 1994 |
| 15° | 12011 | 11867 | 11947 | 11908 | 11887 | 3216 |
| 25° | 2823  | 2930  | 3183  | 2855  | 2765  | 1351 |
| 35° | 474   | 484   | 454   | 450   | 380   | 321  |
| 45° | 125   | 155   | 155   | 155   | 126   | 88   |
| 55° | 20    | 21    | 38    | 22    | 21    | 19   |
| 65° | 7     | 7     | 7     | 7     | 7     | 7    |
| 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°    | 22654.5 | 22654.5 | 22654.5 | 22654.5 | 22654.5 |
| 2.5°  | 22504.3 | 22488.7 | 22497.6 | 22508.8 | 22513.2 |
| 5°    | 21920.4 | 21899.2 | 21894.8 | 21940.4 | 21921.5 |
| 7.5°  | 20742.5 | 20712.5 | 20666.9 | 20770.3 | 20867.1 |
| 10°   | 18769.3 | 18736.0 | 18637.0 | 18685.9 | 18764.9 |
| 12.5° | 15856.3 | 15748.5 | 15746.2 | 15901.9 | 15880.8 |
| 15°   | 12011.3 | 11866.7 | 11946.8 | 11907.8 | 11886.7 |
| 17.5° | 8077.2  | 8021.6  | 8128.4  | 8096.1  | 7957.1  |
| 20°   | 5810.4  | 5824.9  | 6028.4  | 5926.1  | 5802.6  |
| 22.5° | 4239.9  | 4292.2  | 4533.6  | 4270.0  | 4173.2  |
| 25°   | 2822.9  | 2929.7  | 3183.3  | 2855.2  | 2765.1  |
| 27.5° | 1736.2  | 1785.2  | 2042.1  | 1714.0  | 1665.0  |
| 30°   | 1080.0  | 1055.5  | 1176.8  | 1009.9  | 941.0   |
| 32.5° | 708.5   | 677.4   | 716.3   | 642.9   | 587.3   |
| 35°   | 473.8   | 483.8   | 453.8   | 450.5   | 380.4   |
| 37.5° | 295.9   | 340.4   | 300.3   | 320.3   | 244.7   |
| 40°   | 191.3   | 246.9   | 212.4   | 234.7   | 180.2   |
| 42.5° | 156.8   | 190.2   | 174.6   | 185.7   | 160.2   |
| 45°   | 124.6   | 154.6   | 154.6   | 154.6   | 125.7   |
| 47.5° | 69.0    | 103.4   | 132.4   | 105.7   | 73.4    |
| 50°   | 38.9    | 52.3    | 102.3   | 54.5    | 41.2    |
| 52.5° | 26.7    | 30.0    | 70.1    | 31.1    | 27.8    |
| 55°   | 20.0    | 21.1    | 37.8    | 22.2    | 21.1    |
| 57.5° | 15.6    | 16.7    | 20.0    | 16.7    | 15.6    |
| 60°   | 12.2    | 12.2    | 14.5    | 13.3    | 12.2    |
| 62.5° | 8.9     | 8.9     | 10.0    | 8.9     | 8.9     |
| 65°   | 6.7     | 6.7     | 6.7     | 6.7     | 6.7     |
| 67.5° | 3.3     | 4.4     | 4.4     | 4.4     | 4.4     |
| 70°   | 3.3     | 2.2     | 2.2     | 2.2     | 3.3     |
| 72.5° | 2.2     | 1.1     | 1.1     | 1.1     | 1.1     |
| 75°   | 0.0     | 0.0     | 1.1     | 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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