

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: P766434

Luminaire Tested: LD6D45BD010-EU6DR3040509050-6LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766434  
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: LD6D45BD010-EU6DR3040509050-6LBCSSQMB  
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4658.6 lumens  
Efficiency: N/A  
Efficacy: 120.4 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

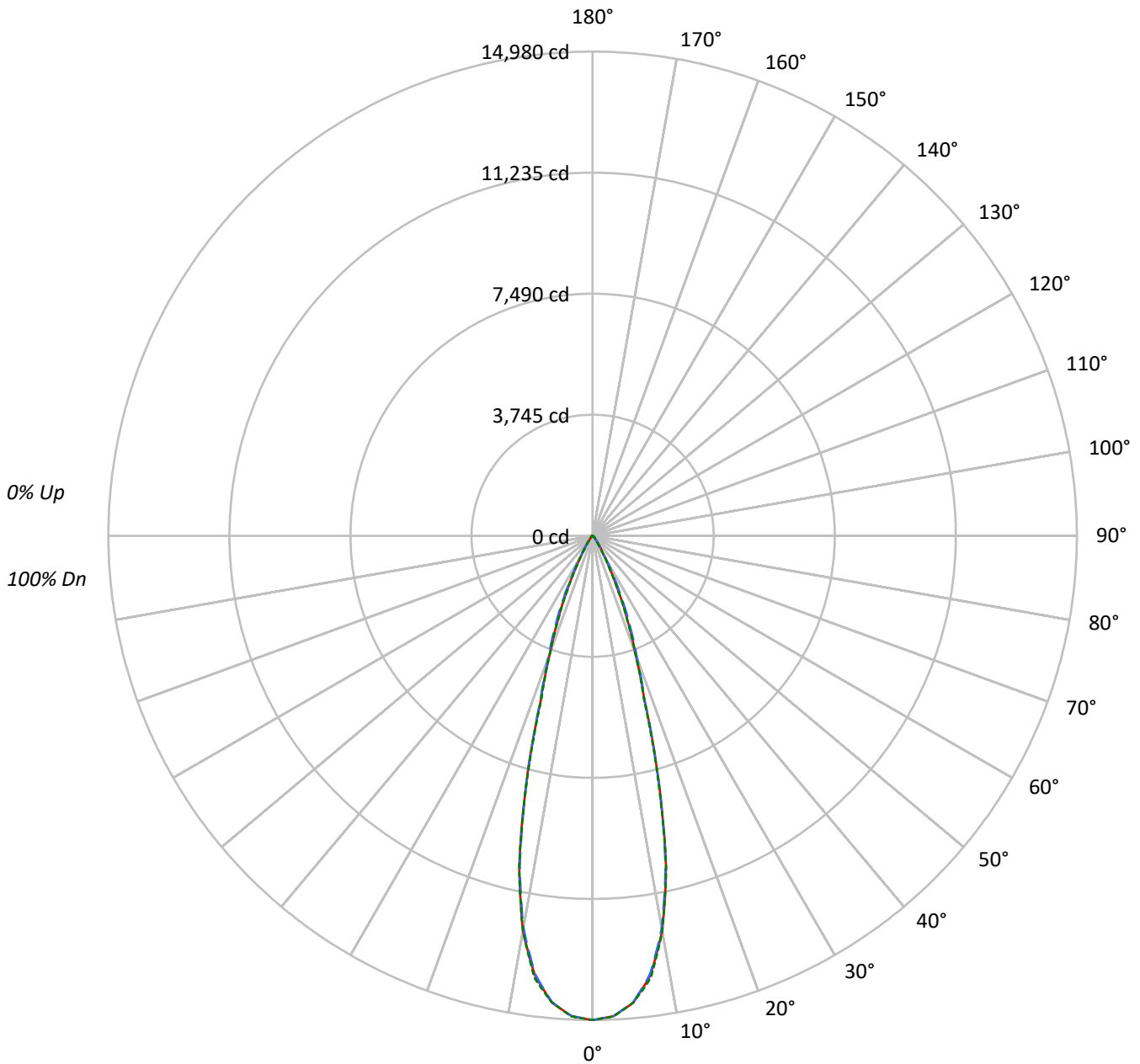
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P766434

CATALOG NUMBER: LD6D45BD010-EU6DR3040509050-6LBCSSQMB

### Luminous Intensity Polar Plot





TEST NUMBER: P766434

CATALOG NUMBER: LD6D45BD010-EU6DR3040509050-6LBCSSQMB

**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°  | 1146597 | 1146597 | 1146597 |
| 5°  | 1113681 | 1112382 | 1113742 |
| 10° | 964620  | 957819  | 964394  |
| 15° | 629368  | 625984  | 622838  |
| 20° | 312953  | 324699  | 312538  |
| 25° | 157646  | 177772  | 154411  |
| 30° | 63116   | 68772   | 54993   |
| 35° | 29275   | 28042   | 23501   |
| 40° | 12640   | 14039   | 11901   |
| 45° | 8920    | 11063   | 8995    |
| 50° | 3060    | 8062    | 3239    |
| 55° | 1762    | 3336    | 1868    |
| 60° | 1240    | 1470    | 1240    |
| 65° | 797     | 797     | 797     |
| 70° | 492     | 336     | 492     |
| 75° | 0       | 207     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 11063 cd/sqm



TEST NUMBER: P766434

CATALOG NUMBER: LD6D45BD010-EU6DR3040509050-6LBCSSQMB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1317.2 | 28.3      |
| 10°-20°   | 2121.4 | 45.5      |
| 20°-30°   | 916.7  | 19.7      |
| 30°-40°   | 208.9  | 4.5       |
| 40°-50°   | 71.7   | 1.5       |
| 50°-60°   | 17.5   | 0.4       |
| 60°-70°   | 4.5    | 0.1       |
| 70°-80°   | 0.5    | 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°    | 4355.4 | 93.5      |
| 0°-40°    | 4564.3 | 98.0      |
| 0°-60°    | 4653.6 | 99.9      |
| 0°-90°    | 4658.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4658.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 14980 | 14980 | 14980 | 14980 | 14980 |      |
| 5°  | 14494 | 14480 | 14477 | 14508 | 14495 | 1318 |
| 15° | 7942  | 7847  | 7900  | 7874  | 7860  | 2127 |
| 25° | 1867  | 1937  | 2105  | 1888  | 1828  | 893  |
| 35° | 313   | 320   | 300   | 298   | 252   | 213  |
| 45° | 82    | 102   | 102   | 102   | 83    | 58   |
| 55° | 13    | 14    | 25    | 15    | 14    | 13   |
| 65° | 4     | 4     | 4     | 4     | 4     | 4    |
| 75° | 0     | 0     | 1     | 0     | 0     | 1    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     | 0    |



TEST NUMBER: P766434

CATALOG NUMBER: LD6D45BD010-EU6DR3040509050-6LBCSSQMB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 14979.7 | 14979.7 | 14979.7 | 14979.7 | 14979.7 |
| 2.5°  | 14880.5 | 14870.2 | 14876.1 | 14883.4 | 14886.3 |
| 5°    | 14494.3 | 14480.4 | 14477.4 | 14507.6 | 14495.1 |
| 7.5°  | 13715.5 | 13695.6 | 13665.5 | 13733.9 | 13797.9 |
| 10°   | 12410.8 | 12388.7 | 12323.3 | 12355.6 | 12407.9 |
| 12.5° | 10484.6 | 10413.3 | 10411.8 | 10514.8 | 10500.8 |
| 15°   | 7942.2  | 7846.6  | 7899.5  | 7873.8  | 7859.8  |
| 17.5° | 5340.9  | 5304.1  | 5374.7  | 5353.4  | 5261.4  |
| 20°   | 3842.0  | 3851.6  | 3986.2  | 3918.5  | 3836.9  |
| 22.5° | 2803.6  | 2838.1  | 2997.7  | 2823.4  | 2759.4  |
| 25°   | 1866.6  | 1937.2  | 2104.9  | 1887.9  | 1828.3  |
| 27.5° | 1148.0  | 1180.4  | 1350.3  | 1133.3  | 1101.0  |
| 30°   | 714.1   | 697.9   | 778.1   | 667.8   | 622.2   |
| 32.5° | 468.5   | 447.9   | 473.6   | 425.1   | 388.3   |
| 35°   | 313.3   | 319.9   | 300.1   | 297.9   | 251.5   |
| 37.5° | 195.6   | 225.0   | 198.6   | 211.8   | 161.8   |
| 40°   | 126.5   | 163.3   | 140.5   | 155.2   | 119.1   |
| 42.5° | 103.7   | 125.8   | 115.5   | 122.8   | 105.9   |
| 45°   | 82.4    | 102.2   | 102.2   | 102.2   | 83.1    |
| 47.5° | 45.6    | 68.4    | 87.5    | 69.9    | 48.5    |
| 50°   | 25.7    | 34.6    | 67.7    | 36.0    | 27.2    |
| 52.5° | 17.7    | 19.9    | 46.3    | 20.6    | 18.4    |
| 55°   | 13.2    | 14.0    | 25.0    | 14.7    | 14.0    |
| 57.5° | 10.3    | 11.0    | 13.2    | 11.0    | 10.3    |
| 60°   | 8.1     | 8.1     | 9.6     | 8.8     | 8.1     |
| 62.5° | 5.9     | 5.9     | 6.6     | 5.9     | 5.9     |
| 65°   | 4.4     | 4.4     | 4.4     | 4.4     | 4.4     |
| 67.5° | 2.2     | 2.9     | 2.9     | 2.9     | 2.9     |
| 70°   | 2.2     | 1.5     | 1.5     | 1.5     | 2.2     |
| 72.5° | 1.5     | 0.7     | 0.7     | 0.7     | 0.7     |
| 75°   | 0.0     | 0.0     | 0.7     | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report







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

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)