

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: P771078

Luminaire Tested: LD6D75BD010-EU6DR3070959030-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771078  
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-EU6DR3070959030-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6707.3 lumens  
Efficiency: N/A  
Efficacy: 92.6 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

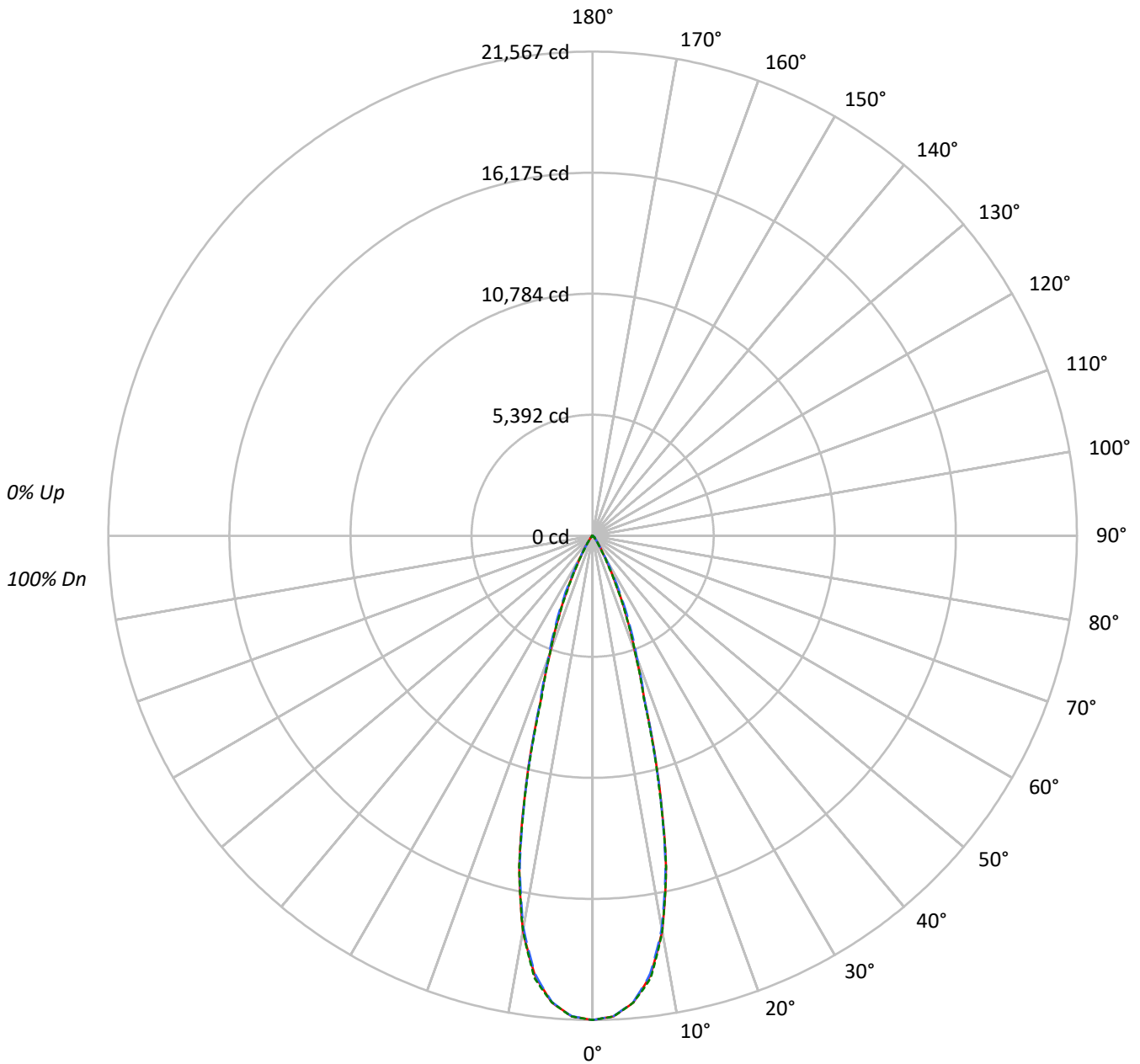


Downlight

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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°  | 1650819 | 1650819 | 1650819 |
| 5°  | 1603424 | 1601557 | 1603509 |
| 10° | 1388807 | 1379014 | 1388481 |
| 15° | 906126  | 901261  | 896728  |
| 20° | 450573  | 467483  | 449970  |
| 25° | 226968  | 255945  | 222323  |
| 30° | 90877   | 99017   | 79175   |
| 35° | 42152   | 40367   | 33835   |
| 40° | 18195   | 20204   | 17136   |
| 45° | 12838   | 15934   | 12957   |
| 50° | 4418    | 11598   | 4668    |
| 55° | 2549    | 4804    | 2682    |
| 60° | 1776    | 2113    | 1776    |
| 65° | 1159    | 1159    | 1159    |
| 70° | 716     | 470     | 716     |
| 75° | 0       | 325     | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15934 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1896.5 | 28.3      |
| 10°-20°   | 3054.3 | 45.5      |
| 20°-30°   | 1319.9 | 19.7      |
| 30°-40°   | 300.8  | 4.5       |
| 40°-50°   | 103.3  | 1.5       |
| 50°-60°   | 25.2   | 0.4       |
| 60°-70°   | 6.5    | 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°    | 6270.7 | 93.5      |
| 0°-40°    | 6571.5 | 98.0      |
| 0°-60°    | 6700.0 | 99.9      |
| 0°-90°    | 6707.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6707.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 21567 | 21567 | 21567 | 21567 | 21567 |      |
| 5°  | 20868 | 20848 | 20844 | 20887 | 20869 | 1898 |
| 15° | 11435 | 11297 | 11373 | 11336 | 11316 | 3062 |
| 25° | 2687  | 2789  | 3030  | 2718  | 2632  | 1286 |
| 35° | 451   | 461   | 432   | 429   | 362   | 306  |
| 45° | 119   | 147   | 147   | 147   | 120   | 84   |
| 55° | 19    | 20    | 36    | 21    | 20    | 19   |
| 65° | 6     | 6     | 6     | 6     | 6     | 6    |
| 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°    | 21567.1 | 21567.1 | 21567.1 | 21567.1 | 21567.1 |
| 2.5°  | 21424.1 | 21409.3 | 21417.8 | 21428.4 | 21432.6 |
| 5°    | 20868.2 | 20848.1 | 20843.9 | 20887.3 | 20869.3 |
| 7.5°  | 19746.9 | 19718.3 | 19674.9 | 19773.3 | 19865.5 |
| 10°   | 17868.4 | 17836.7 | 17742.4 | 17789.0 | 17864.2 |
| 12.5° | 15095.2 | 14992.5 | 14990.4 | 15138.7 | 15118.5 |
| 15°   | 11434.7 | 11297.1 | 11373.3 | 11336.3 | 11316.1 |
| 17.5° | 7689.5  | 7636.6  | 7738.2  | 7707.5  | 7575.2  |
| 20°   | 5531.5  | 5545.3  | 5739.1  | 5641.7  | 5524.1  |
| 22.5° | 4036.4  | 4086.2  | 4316.0  | 4065.0  | 3972.9  |
| 25°   | 2687.4  | 2789.1  | 3030.5  | 2718.1  | 2632.4  |
| 27.5° | 1652.9  | 1699.5  | 1944.1  | 1631.7  | 1585.1  |
| 30°   | 1028.2  | 1004.9  | 1120.3  | 961.5   | 895.8   |
| 32.5° | 674.5   | 644.9   | 681.9   | 612.0   | 559.1   |
| 35°   | 451.1   | 460.6   | 432.0   | 428.8   | 362.1   |
| 37.5° | 281.7   | 324.0   | 285.9   | 305.0   | 233.0   |
| 40°   | 182.1   | 235.1   | 202.2   | 223.4   | 171.5   |
| 42.5° | 149.3   | 181.1   | 166.2   | 176.8   | 152.5   |
| 45°   | 118.6   | 147.2   | 147.2   | 147.2   | 119.7   |
| 47.5° | 65.6    | 98.5    | 126.0   | 100.6   | 69.9    |
| 50°   | 37.1    | 49.8    | 97.4    | 51.9    | 39.2    |
| 52.5° | 25.4    | 28.6    | 66.7    | 29.6    | 26.5    |
| 55°   | 19.1    | 20.1    | 36.0    | 21.2    | 20.1    |
| 57.5° | 14.8    | 15.9    | 19.1    | 15.9    | 14.8    |
| 60°   | 11.6    | 11.6    | 13.8    | 12.7    | 11.6    |
| 62.5° | 8.5     | 8.5     | 9.5     | 8.5     | 8.5     |
| 65°   | 6.4     | 6.4     | 6.4     | 6.4     | 6.4     |
| 67.5° | 3.2     | 4.2     | 4.2     | 4.2     | 4.2     |
| 70°   | 3.2     | 2.1     | 2.1     | 2.1     | 3.2     |
| 72.5° | 2.1     | 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     |

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  
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Scaled Data Report







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

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Scaled Data Report



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Scaled Data Report



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