

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: P771109

Luminaire Tested: LD6D75BD010-EU6DR3070959040-6LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771109
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-EU6DR3070959040-6LBS1H
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9276.2 lumens
Efficiency: N/A
Efficacy: 128.1 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

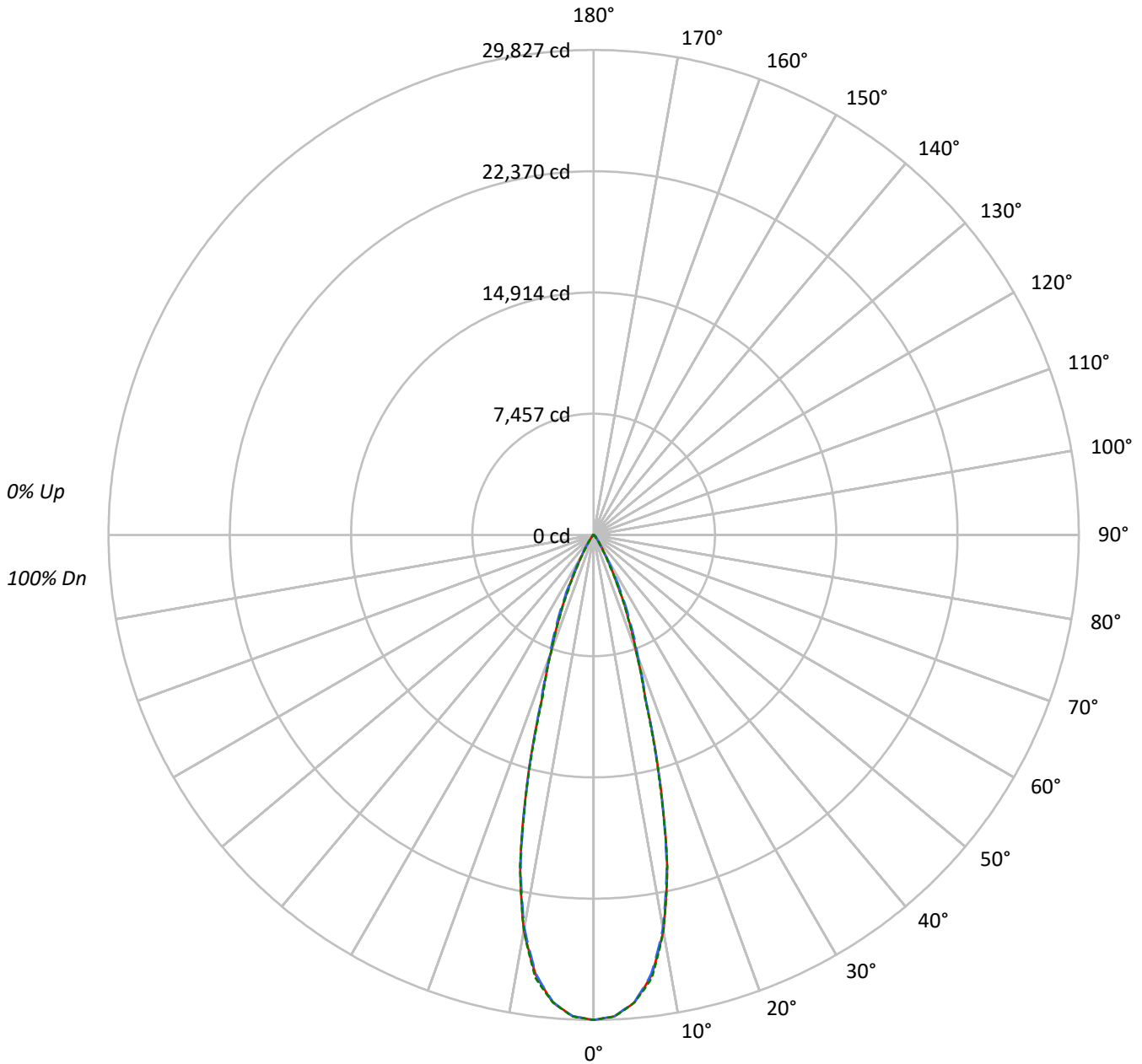
Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P771109
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Luminous Intensity Polar Plot





TEST NUMBER: P771109

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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° | 2283090 | 2283090 | 2283090 |
| 5° | 2217550 | 2214960 | 2217665 |
| 10° | 1920736 | 1907189 | 1920277 |
| 15° | 1253181 | 1246454 | 1240185 |
| 20° | 623153 | 646531 | 622314 |
| 25° | 313899 | 353973 | 307472 |
| 30° | 125683 | 136943 | 109500 |
| 35° | 58289 | 55832 | 46796 |
| 40° | 25170 | 27948 | 23701 |
| 45° | 17753 | 22039 | 17915 |
| 50° | 6109 | 16040 | 6454 |
| 55° | 3523 | 6646 | 3710 |
| 60° | 2465 | 2909 | 2465 |
| 65° | 1594 | 1594 | 1594 |
| 70° | 985 | 649 | 985 |
| 75° | 0 | 444 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 22039 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2622.9 | 28.3 |
| 10°-20° | 4224.2 | 45.5 |
| 20°-30° | 1825.4 | 19.7 |
| 30°-40° | 416.0 | 4.5 |
| 40°-50° | 142.9 | 1.5 |
| 50°-60° | 34.9 | 0.4 |
| 60°-70° | 9.1 | 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° | 8672.4 | 93.5 |
| 0°-40° | 9088.4 | 98.0 |
| 0°-60° | 9266.2 | 99.9 |
| 0°-90° | 9276.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9276.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 29827 | 29827 | 29827 | 29827 | 29827 | |
| 5° | 28861 | 28833 | 28827 | 28887 | 28862 | 2625 |
| 15° | 15814 | 15624 | 15729 | 15678 | 15650 | 4235 |
| 25° | 3717 | 3857 | 4191 | 3759 | 3641 | 1779 |
| 35° | 624 | 637 | 598 | 593 | 501 | 423 |
| 45° | 164 | 204 | 204 | 204 | 166 | 116 |
| 55° | 26 | 28 | 50 | 29 | 28 | 26 |
| 65° | 9 | 9 | 9 | 9 | 9 | 9 |
| 75° | 0 | 0 | 2 | 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° | 29827.4 | 29827.4 | 29827.4 | 29827.4 | 29827.4 |
| 2.5° | 29629.7 | 29609.2 | 29620.9 | 29635.6 | 29641.4 |
| 5° | 28860.9 | 28833.1 | 28827.2 | 28887.3 | 28862.4 |
| 7.5° | 27310.1 | 27270.5 | 27210.5 | 27346.7 | 27474.1 |
| 10° | 24712.2 | 24668.3 | 24537.9 | 24602.4 | 24706.3 |
| 12.5° | 20876.9 | 20734.8 | 20731.9 | 20936.9 | 20909.1 |
| 15° | 15814.3 | 15624.0 | 15729.4 | 15678.1 | 15650.3 |
| 17.5° | 10634.7 | 10561.4 | 10702.0 | 10659.6 | 10476.5 |
| 20° | 7650.2 | 7669.2 | 7937.2 | 7802.5 | 7639.9 |
| 22.5° | 5582.4 | 5651.2 | 5969.0 | 5621.9 | 5494.5 |
| 25° | 3716.7 | 3857.3 | 4191.2 | 3759.2 | 3640.6 |
| 27.5° | 2286.0 | 2350.4 | 2688.7 | 2256.7 | 2192.2 |
| 30° | 1422.0 | 1389.7 | 1549.4 | 1329.7 | 1238.9 |
| 32.5° | 932.8 | 891.8 | 943.1 | 846.4 | 773.2 |
| 35° | 623.8 | 637.0 | 597.5 | 593.1 | 500.8 |
| 37.5° | 389.5 | 448.1 | 395.4 | 421.8 | 322.2 |
| 40° | 251.9 | 325.1 | 279.7 | 309.0 | 237.2 |
| 42.5° | 206.5 | 250.4 | 229.9 | 244.6 | 210.9 |
| 45° | 164.0 | 203.6 | 203.6 | 203.6 | 165.5 |
| 47.5° | 90.8 | 136.2 | 174.3 | 139.1 | 96.7 |
| 50° | 51.3 | 68.8 | 134.7 | 71.8 | 54.2 |
| 52.5° | 35.1 | 39.5 | 92.3 | 41.0 | 36.6 |
| 55° | 26.4 | 27.8 | 49.8 | 29.3 | 27.8 |
| 57.5° | 20.5 | 22.0 | 26.4 | 22.0 | 20.5 |
| 60° | 16.1 | 16.1 | 19.0 | 17.6 | 16.1 |
| 62.5° | 11.7 | 11.7 | 13.2 | 11.7 | 11.7 |
| 65° | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| 67.5° | 4.4 | 5.9 | 5.9 | 5.9 | 5.9 |
| 70° | 4.4 | 2.9 | 2.9 | 2.9 | 4.4 |
| 72.5° | 2.9 | 1.5 | 1.5 | 1.5 | 1.5 |
| 75° | 0.0 | 0.0 | 1.5 | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





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

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