

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: P771110

Luminaire Tested: LD6D75BD010-EU6DR3070959040-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771110
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-EU6DR3070959040-6LBS1LI
Description: 6 INCH ROUND SHALLOW 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: 9740.0 lumens
Efficiency: N/A
Efficacy: 134.5 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

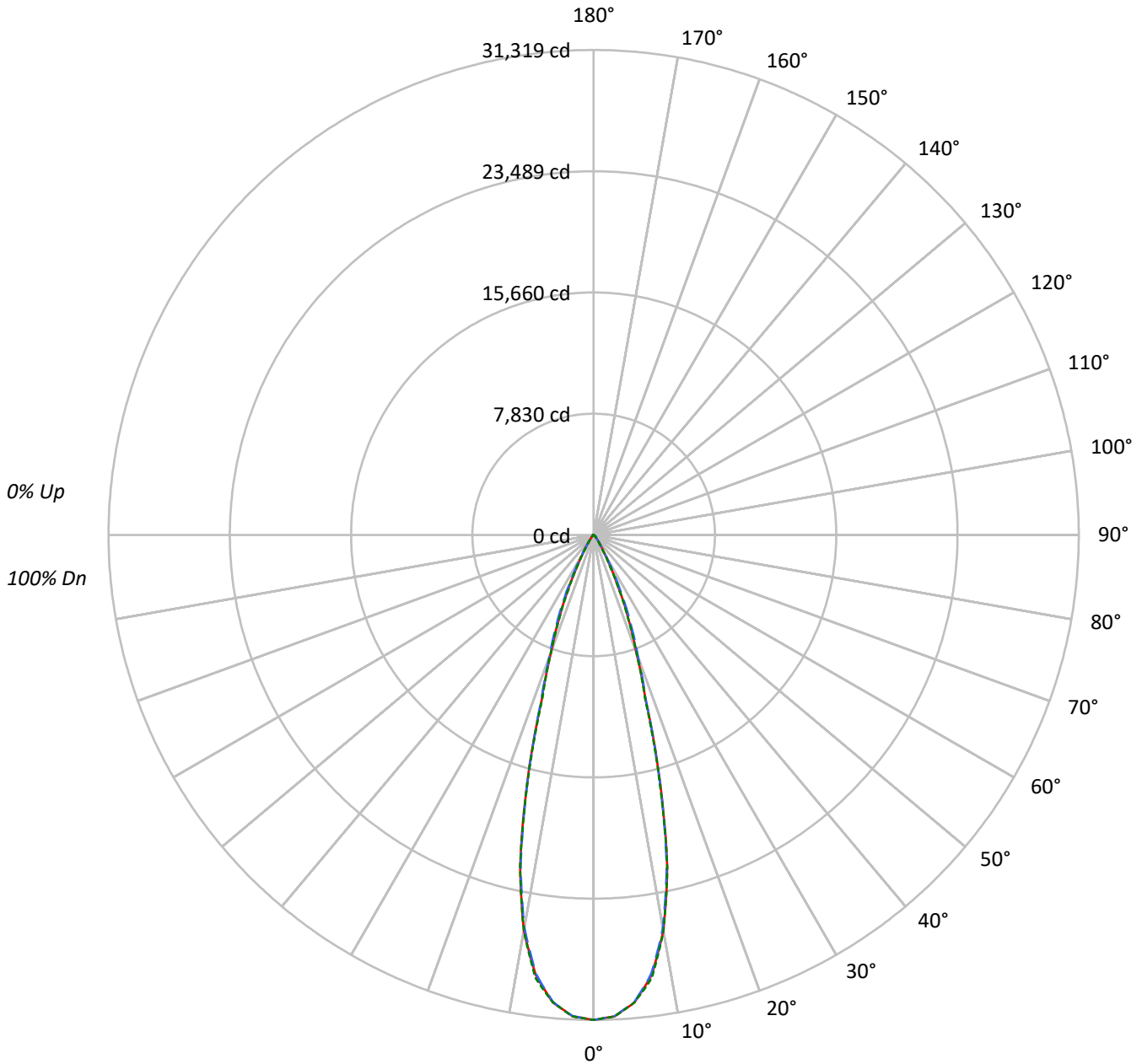
Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P771110
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Luminous Intensity Polar Plot





TEST NUMBER: P771110

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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 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | 100 | | | | | | | | | | | | | |
| 1 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | 96 | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | 92 | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | 89 | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | 85 | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | 82 | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | 79 | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | 77 | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | 74 | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | 72 | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | 69 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 2397247 | 2397247 | 2397247 |
| 5° | 2328431 | 2325711 | 2328547 |
| 10° | 2016772 | 2002548 | 2016290 |
| 15° | 1315847 | 1308779 | 1302193 |
| 20° | 654310 | 678852 | 653430 |
| 25° | 329591 | 371667 | 322843 |
| 30° | 131967 | 143784 | 114971 |
| 35° | 61205 | 58626 | 49141 |
| 40° | 26429 | 29347 | 24890 |
| 45° | 18640 | 23133 | 18814 |
| 50° | 6407 | 16850 | 6776 |
| 55° | 3697 | 6979 | 3897 |
| 60° | 2587 | 3062 | 2587 |
| 65° | 1666 | 1666 | 1666 |
| 70° | 1029 | 694 | 1029 |
| 75° | 0 | 444 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 23133 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2754.0 | 28.3 |
| 10°-20° | 4435.4 | 45.5 |
| 20°-30° | 1916.6 | 19.7 |
| 30°-40° | 436.8 | 4.5 |
| 40°-50° | 150.0 | 1.5 |
| 50°-60° | 36.6 | 0.4 |
| 60°-70° | 9.5 | 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° | 9106.0 | 93.5 |
| 0°-40° | 9542.9 | 98.0 |
| 0°-60° | 9729.5 | 99.9 |
| 0°-90° | 9740.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9740.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 31319 | 31319 | 31319 | 31319 | 31319 | |
| 5° | 30304 | 30275 | 30269 | 30332 | 30306 | 2756 |
| 15° | 16605 | 16405 | 16516 | 16462 | 16433 | 4446 |
| 25° | 3902 | 4050 | 4401 | 3947 | 3823 | 1868 |
| 35° | 655 | 669 | 627 | 623 | 526 | 444 |
| 45° | 172 | 214 | 214 | 214 | 174 | 122 |
| 55° | 28 | 29 | 52 | 31 | 29 | 27 |
| 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° | 31318.8 | 31318.8 | 31318.8 | 31318.8 | 31318.8 |
| 2.5° | 31111.2 | 31089.7 | 31102.0 | 31117.4 | 31123.5 |
| 5° | 30304.0 | 30274.7 | 30268.6 | 30331.6 | 30305.5 |
| 7.5° | 28675.6 | 28634.1 | 28571.0 | 28714.0 | 28847.8 |
| 10° | 25947.8 | 25901.7 | 25764.8 | 25832.5 | 25941.6 |
| 12.5° | 21920.7 | 21771.5 | 21768.5 | 21983.7 | 21954.5 |
| 15° | 16605.1 | 16405.2 | 16515.9 | 16462.1 | 16432.8 |
| 17.5° | 11166.4 | 11089.5 | 11237.1 | 11192.5 | 11000.3 |
| 20° | 8032.7 | 8052.7 | 8334.0 | 8192.6 | 8021.9 |
| 22.5° | 5861.5 | 5933.8 | 6267.5 | 5903.0 | 5769.3 |
| 25° | 3902.5 | 4050.2 | 4400.7 | 3947.1 | 3822.6 |
| 27.5° | 2400.3 | 2467.9 | 2823.1 | 2369.5 | 2301.9 |
| 30° | 1493.1 | 1459.2 | 1626.8 | 1396.2 | 1300.8 |
| 32.5° | 979.5 | 936.4 | 990.2 | 888.8 | 811.9 |
| 35° | 655.0 | 668.9 | 627.4 | 622.7 | 525.9 |
| 37.5° | 409.0 | 470.5 | 415.2 | 442.8 | 338.3 |
| 40° | 264.5 | 341.4 | 293.7 | 324.4 | 249.1 |
| 42.5° | 216.8 | 262.9 | 241.4 | 256.8 | 221.4 |
| 45° | 172.2 | 213.7 | 213.7 | 213.7 | 173.8 |
| 47.5° | 95.3 | 143.0 | 183.0 | 146.1 | 101.5 |
| 50° | 53.8 | 72.3 | 141.5 | 75.3 | 56.9 |
| 52.5° | 36.9 | 41.5 | 96.9 | 43.1 | 38.4 |
| 55° | 27.7 | 29.2 | 52.3 | 30.8 | 29.2 |
| 57.5° | 21.5 | 23.1 | 27.7 | 23.1 | 21.5 |
| 60° | 16.9 | 16.9 | 20.0 | 18.5 | 16.9 |
| 62.5° | 12.3 | 12.3 | 13.8 | 12.3 | 12.3 |
| 65° | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 |
| 67.5° | 4.6 | 6.2 | 6.2 | 6.2 | 6.2 |
| 70° | 4.6 | 3.1 | 3.1 | 3.1 | 4.6 |
| 72.5° | 3.1 | 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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