

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: P771062

Luminaire Tested: LD6D75BD010-EU6DR3070959027-6LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771062
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-EU6DR3070959027-6LBCSSQMB
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7384.6 lumens
Efficiency: N/A
Efficacy: 102.0 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

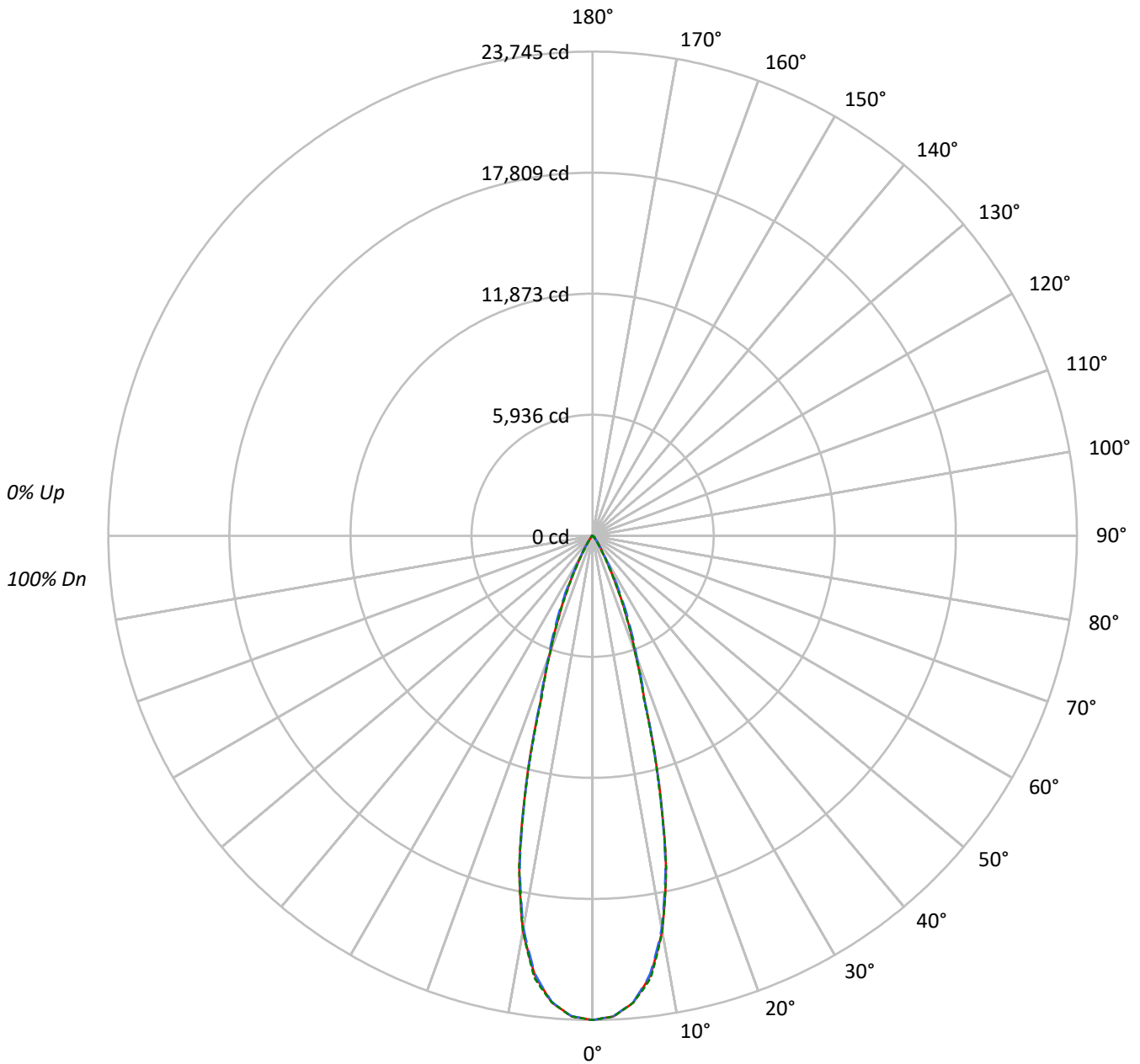
Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 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° | 1817531 | 1817531 | 1817531 |
| 5° | 1765356 | 1763297 | 1765448 |
| 10° | 1529068 | 1518280 | 1528703 |
| 15° | 997637 | 992280 | 987295 |
| 20° | 496082 | 514695 | 495414 |
| 25° | 249889 | 281788 | 244771 |
| 30° | 100051 | 109014 | 87174 |
| 35° | 46403 | 44441 | 37255 |
| 40° | 20034 | 22252 | 18875 |
| 45° | 14137 | 17536 | 14256 |
| 50° | 4858 | 12777 | 5132 |
| 55° | 2802 | 5285 | 2963 |
| 60° | 1960 | 2327 | 1960 |
| 65° | 1268 | 1268 | 1268 |
| 70° | 783 | 515 | 783 |
| 75° | 0 | 355 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17536 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2088.0 | 28.3 |
| 10°-20° | 3362.8 | 45.5 |
| 20°-30° | 1453.1 | 19.7 |
| 30°-40° | 331.2 | 4.5 |
| 40°-50° | 113.7 | 1.5 |
| 50°-60° | 27.8 | 0.4 |
| 60°-70° | 7.2 | 0.1 |
| 70°-80° | 0.8 | 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° | 6903.9 | 93.5 |
| 0°-40° | 7235.1 | 98.0 |
| 0°-60° | 7376.6 | 99.9 |
| 0°-90° | 7384.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7384.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 23745 | 23745 | 23745 | 23745 | 23745 | |
| 5° | 22976 | 22954 | 22949 | 22997 | 22977 | 2090 |
| 15° | 12590 | 12438 | 12522 | 12481 | 12459 | 3371 |
| 25° | 2959 | 3071 | 3336 | 2993 | 2898 | 1416 |
| 35° | 497 | 507 | 476 | 472 | 399 | 337 |
| 45° | 131 | 162 | 162 | 162 | 132 | 93 |
| 55° | 21 | 22 | 40 | 23 | 22 | 20 |
| 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° | 23745.1 | 23745.1 | 23745.1 | 23745.1 | 23745.1 |
| 2.5° | 23587.7 | 23571.4 | 23580.7 | 23592.4 | 23597.1 |
| 5° | 22975.7 | 22953.5 | 22948.9 | 22996.7 | 22976.9 |
| 7.5° | 21741.1 | 21709.6 | 21661.8 | 21770.2 | 21871.7 |
| 10° | 19673.0 | 19638.0 | 19534.2 | 19585.5 | 19668.3 |
| 12.5° | 16619.7 | 16506.6 | 16504.3 | 16667.5 | 16645.4 |
| 15° | 12589.5 | 12438.0 | 12521.9 | 12481.1 | 12459.0 |
| 17.5° | 8466.1 | 8407.8 | 8519.7 | 8485.9 | 8340.2 |
| 20° | 6090.2 | 6105.3 | 6318.7 | 6211.4 | 6082.0 |
| 22.5° | 4444.0 | 4498.8 | 4751.8 | 4475.5 | 4374.1 |
| 25° | 2958.8 | 3070.7 | 3336.5 | 2992.6 | 2898.2 |
| 27.5° | 1819.8 | 1871.1 | 2140.4 | 1796.5 | 1745.2 |
| 30° | 1132.0 | 1106.3 | 1233.4 | 1058.6 | 986.3 |
| 32.5° | 742.6 | 710.0 | 750.8 | 673.8 | 615.5 |
| 35° | 496.6 | 507.1 | 475.6 | 472.2 | 398.7 |
| 37.5° | 310.1 | 356.7 | 314.8 | 335.8 | 256.5 |
| 40° | 200.5 | 258.8 | 222.7 | 246.0 | 188.9 |
| 42.5° | 164.4 | 199.4 | 183.0 | 194.7 | 167.9 |
| 45° | 130.6 | 162.0 | 162.0 | 162.0 | 131.7 |
| 47.5° | 72.3 | 108.4 | 138.7 | 110.8 | 76.9 |
| 50° | 40.8 | 54.8 | 107.3 | 57.1 | 43.1 |
| 52.5° | 28.0 | 31.5 | 73.4 | 32.6 | 29.1 |
| 55° | 21.0 | 22.2 | 39.6 | 23.3 | 22.2 |
| 57.5° | 16.3 | 17.5 | 21.0 | 17.5 | 16.3 |
| 60° | 12.8 | 12.8 | 15.2 | 14.0 | 12.8 |
| 62.5° | 9.3 | 9.3 | 10.5 | 9.3 | 9.3 |
| 65° | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 67.5° | 3.5 | 4.7 | 4.7 | 4.7 | 4.7 |
| 70° | 3.5 | 2.3 | 2.3 | 2.3 | 3.5 |
| 72.5° | 2.3 | 1.2 | 1.2 | 1.2 | 1.2 |
| 75° | 0.0 | 0.0 | 1.2 | 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

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Scaled Data Report





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

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