

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: P773911

Luminaire Tested: LD6D90BD010-EU6DR6070959040-6LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P773911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D90BD010-EU6DR6070959040-6LBCSSQMW
Description: 6 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11359.7 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

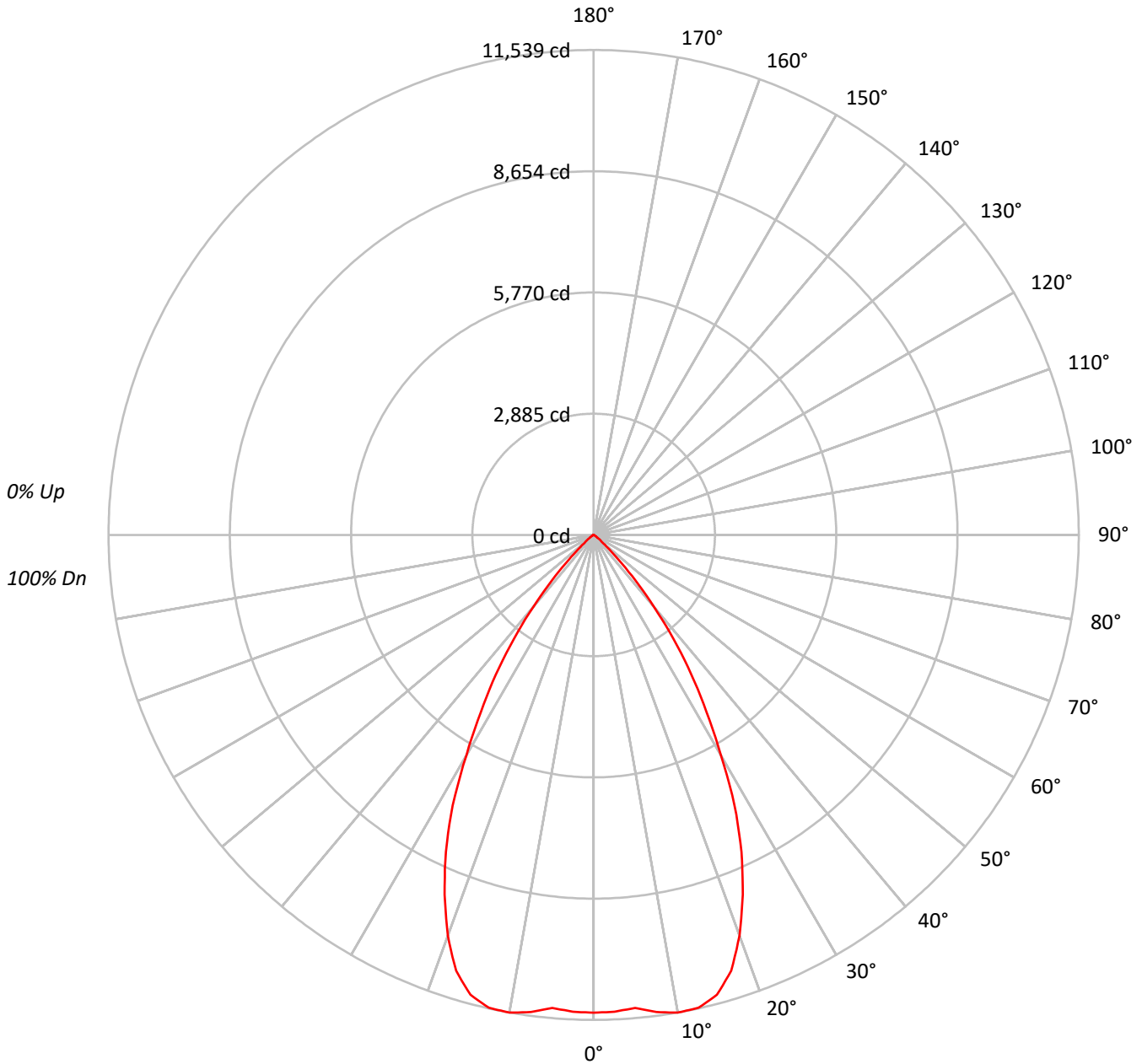
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P773911

CATALOG NUMBER: LD6D90BD010-EU6DR6070959040-6LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P773911

CATALOG NUMBER: LD6D90BD010-EU6DR6070959040-6LBCSSQMW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | |
| RC | 80 | | | | 70 | | | | 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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | |
| 1 | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 94 | | |
| 2 | 108 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 98 | 95 | 92 | 95 | 93 | 90 | 92 | 90 | 89 | 87 | | |
| 3 | 102 | 96 | 91 | 87 | 100 | 95 | 90 | 86 | 92 | 88 | 85 | 90 | 86 | 84 | 87 | 85 | 82 | 81 | | |
| 4 | 97 | 90 | 84 | 80 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 81 | 78 | 82 | 79 | 77 | 75 | | |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 77 | 73 | 81 | 76 | 73 | 79 | 75 | 72 | 78 | 74 | 71 | 70 | | |
| 6 | 87 | 79 | 73 | 68 | 86 | 78 | 72 | 68 | 76 | 71 | 68 | 75 | 70 | 67 | 74 | 70 | 67 | 65 | | |
| 7 | 83 | 74 | 68 | 63 | 82 | 73 | 67 | 63 | 72 | 67 | 63 | 71 | 66 | 63 | 69 | 65 | 62 | 61 | | |
| 8 | 79 | 69 | 63 | 59 | 78 | 69 | 63 | 59 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 61 | 58 | 57 | | |
| 9 | 75 | 65 | 59 | 55 | 74 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 62 | 58 | 55 | 53 | | |
| 10 | 72 | 62 | 56 | 52 | 71 | 61 | 56 | 52 | 61 | 55 | 52 | 60 | 55 | 52 | 59 | 55 | 52 | 50 | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1242087 |
| 5° | 1239056 |
| 10° | 1280209 |
| 15° | 1281526 |
| 20° | 1179146 |
| 25° | 1002941 |
| 30° | 764210 |
| 35° | 540414 |
| 40° | 317337 |
| 45° | 128049 |
| 50° | 42750 |
| 55° | 20573 |
| 60° | 8457 |
| 65° | 1241 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 128049 cd/sqm



TEST NUMBER: P773911

CATALOG NUMBER: LD6D90BD010-EU6DR6070959040-6LBCSSQMW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1089.8 | 9.6 |
| 10°-20° | 3138.6 | 27.6 |
| 20°-30° | 3756.6 | 33.1 |
| 30°-40° | 2512.5 | 22.1 |
| 40°-50° | 744.9 | 6.6 |
| 50°-60° | 107.1 | 0.9 |
| 60°-70° | 10.2 | 0.1 |
| 70°-80° | 0.0 | 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° | 7985.0 | 70.3 |
| 0°-40° | 10497.5 | 92.4 |
| 0°-60° | 11349.5 | 99.9 |
| 0°-90° | 11359.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 11359.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 11368 | |
| 5° | 11297 | ### |
| 15° | 11329 | 3139 |
| 25° | 8319 | 3757 |
| 35° | 4052 | 2513 |
| 45° | 829 | 745 |
| 55° | 108 | 107 |
| 65° | 5 | 10 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: P773911

CATALOG NUMBER: LD6D90BD010-EU6DR6070959040-6LBCSSQMW

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|---------|
| 0° | 11368.1 |
| 2.5° | 11353.6 |
| 5° | 11297.2 |
| 7.5° | 11450.3 |
| 10° | 11539.0 |
| 12.5° | 11522.9 |
| 15° | 11329.4 |
| 17.5° | 10873.1 |
| 20° | 10141.2 |
| 22.5° | 9262.5 |
| 25° | 8319.3 |
| 27.5° | 7256.8 |
| 30° | 6057.3 |
| 32.5° | 4986.7 |
| 35° | 4051.6 |
| 37.5° | 3114.9 |
| 40° | 2224.9 |
| 42.5° | 1467.2 |
| 45° | 828.7 |
| 47.5° | 424.0 |
| 50° | 251.5 |
| 52.5° | 162.8 |
| 55° | 108.0 |
| 57.5° | 69.3 |
| 60° | 38.7 |
| 62.5° | 16.1 |
| 65° | 4.8 |
| 67.5° | 1.6 |
| 70° | 0.0 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 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



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

Scaled Data Report



— 0°-180°

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)