

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: P785983

Luminaire Tested: LERS6D08D010-EC6DR150210IC9024-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P785983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS6D08D010-EC6DR150210IC9024-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 685.1 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 8.9
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

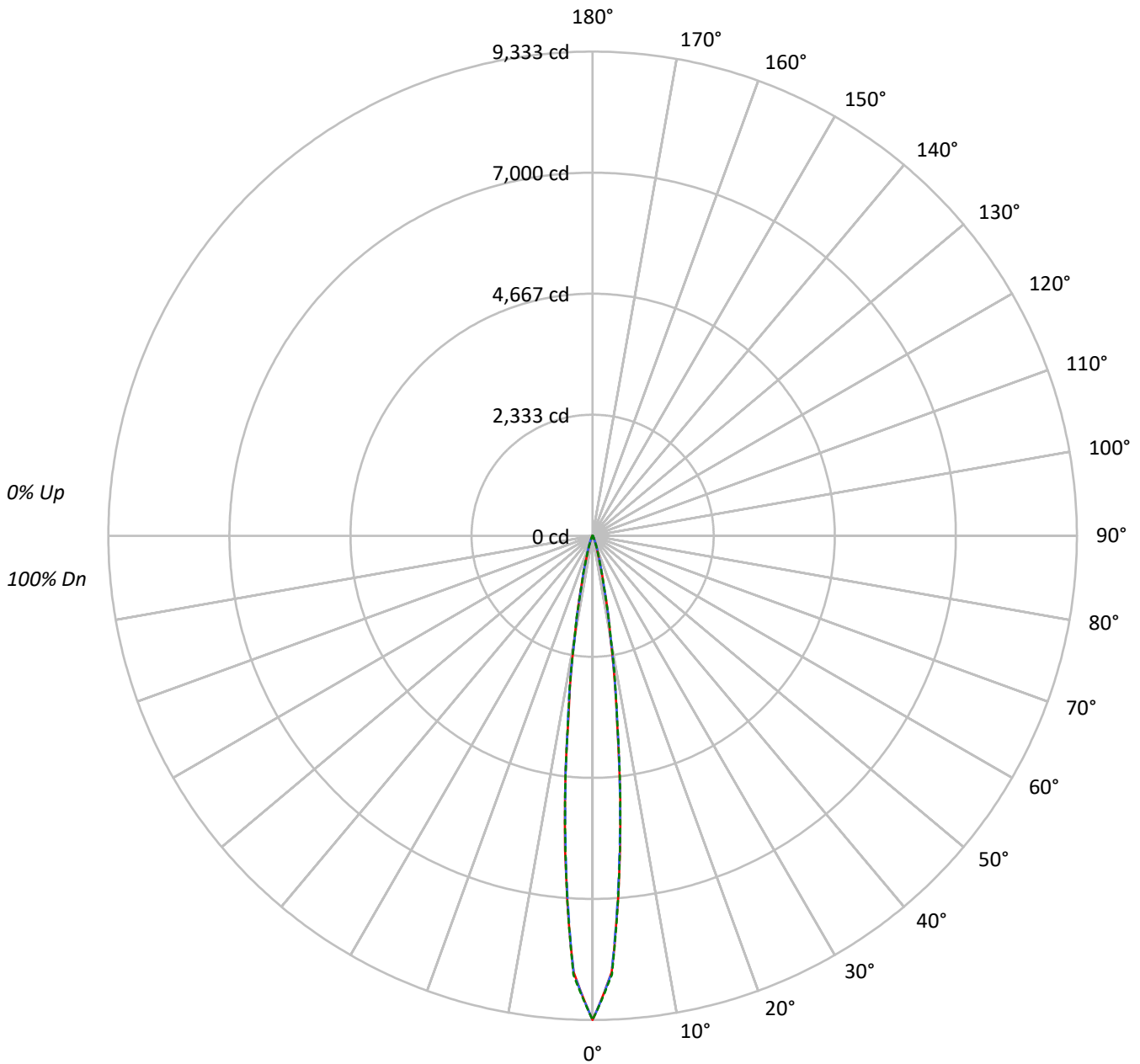


Downlight

TEST NUMBER: P785983

CATALOG NUMBER: LERS6D08D010-EC6DR150210IC9024-6LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P785983

CATALOG NUMBER: LERS6D08D010-EC6DR150210IC9024-6LBS1MW

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 | | | | 100 | | | | | | | | | | | | | | | |
| 1 | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 103 | 101 | 100 | 100 | 98 | | | | 98 | | | | | | | | | | | | | | | |
| 2 | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 98 | 98 | 96 | | | | 96 | | | | | | | | | | | | | | | |
| 3 | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99 | 100 | 99 | 97 | 98 | 97 | 96 | 94 | | | | 94 | | | | | | | | | | | | | | | |
| 4 | 108 | 103 | 100 | 98 | 106 | 102 | 99 | 97 | 100 | 98 | 96 | 99 | 97 | 95 | 97 | 95 | 94 | 93 | | | | 93 | | | | | | | | | | | | | | | |
| 5 | 106 | 101 | 98 | 95 | 104 | 100 | 97 | 95 | 98 | 96 | 94 | 97 | 95 | 93 | 96 | 94 | 92 | 92 | | | | 92 | | | | | | | | | | | | | | | |
| 6 | 104 | 99 | 95 | 93 | 102 | 98 | 95 | 93 | 97 | 94 | 92 | 96 | 93 | 92 | 95 | 93 | 91 | 90 | | | | 90 | | | | | | | | | | | | | | | |
| 7 | 102 | 97 | 94 | 91 | 101 | 96 | 93 | 91 | 95 | 93 | 91 | 94 | 92 | 90 | 93 | 91 | 90 | 89 | | | | 89 | | | | | | | | | | | | | | | |
| 8 | 100 | 95 | 92 | 90 | 99 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 92 | 90 | 89 | 88 | | | | 88 | | | | | | | | | | | | | | | |
| 9 | 99 | 93 | 90 | 88 | 98 | 93 | 90 | 88 | 92 | 90 | 88 | 92 | 89 | 88 | 91 | 89 | 87 | 87 | | | | 87 | | | | | | | | | | | | | | | |
| 10 | 97 | 92 | 89 | 87 | 96 | 92 | 89 | 87 | 91 | 89 | 87 | 91 | 88 | 87 | 90 | 88 | 86 | 86 | | | | 86 | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1050149 | 1050149 | 1050149 |
| 5° | 617121 | 609133 | 613950 |
| 10° | 184180 | 185467 | 188313 |
| 15° | 45817 | 46703 | 45261 |
| 20° | 13705 | 15874 | 14000 |
| 25° | 4830 | 6154 | 4892 |
| 30° | 1775 | 2336 | 1805 |
| 35° | 886 | 1002 | 864 |
| 40° | 561 | 618 | 561 |
| 45° | 413 | 441 | 413 |
| 50° | 327 | 327 | 327 |
| 55° | 278 | 278 | 278 |
| 60° | 225 | 225 | 225 |
| 65° | 171 | 171 | 171 |
| 70° | 146 | 146 | 146 |
| 75° | 91 | 91 | 121 |
| 80° | 63 | 63 | 63 |
| 85° | 33 | 33 | 33 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 441 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 444.3 | 64.9 |
| 10°-20° | 182.7 | 26.7 |
| 20°-30° | 36.3 | 5.3 |
| 30°-40° | 9.1 | 1.3 |
| 40°-50° | 4.7 | 0.7 |
| 50°-60° | 3.5 | 0.5 |
| 60°-70° | 2.5 | 0.4 |
| 70°-80° | 1.4 | 0.2 |
| 80°-90° | 0.4 | 0.1 |
| 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 |
| <hr/> | | |
| 0°-30° | 663.3 | 96.8 |
| 0°-40° | 672.4 | 98.1 |
| 0°-60° | 680.7 | 99.4 |
| 0°-90° | 685.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 685.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 9333 | 9333 | 9333 | 9333 | 9333 | |
| 5° | 6072 | 6010 | 5994 | 6035 | 6041 | 443 |
| 15° | 528 | 537 | 538 | 528 | 521 | 181 |
| 25° | 62 | 70 | 79 | 70 | 63 | 33 |
| 35° | 12 | 13 | 14 | 13 | 12 | 8 |
| 45° | 6 | 6 | 6 | 6 | 6 | 5 |
| 55° | 4 | 4 | 4 | 4 | 4 | 4 |
| 65° | 2 | 2 | 2 | 2 | 2 | 3 |
| 75° | 1 | 1 | 1 | 1 | 2 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 9333.0 | 9333.0 | 9333.0 | 9333.0 | 9333.0 |
| 2.5° | 8418.8 | 8425.9 | 8428.7 | 8437.0 | 8467.8 |
| 5° | 6072.3 | 6009.9 | 5993.7 | 6035.1 | 6041.1 |
| 7.5° | 3597.0 | 3609.6 | 3655.9 | 3666.1 | 3629.0 |
| 10° | 1973.9 | 1990.1 | 1987.7 | 2002.0 | 2018.2 |
| 12.5° | 1009.5 | 996.8 | 992.9 | 1009.1 | 986.6 |
| 15° | 527.5 | 537.3 | 537.7 | 528.2 | 521.1 |
| 17.5° | 283.7 | 295.1 | 314.1 | 298.7 | 275.0 |
| 20° | 167.5 | 177.8 | 194.0 | 181.4 | 171.1 |
| 22.5° | 103.5 | 111.8 | 123.3 | 113.4 | 105.1 |
| 25° | 62.0 | 70.3 | 79.0 | 69.9 | 62.8 |
| 27.5° | 36.7 | 43.9 | 49.4 | 43.5 | 36.3 |
| 30° | 23.7 | 27.7 | 31.2 | 27.3 | 24.1 |
| 32.5° | 16.6 | 18.2 | 19.8 | 18.2 | 16.6 |
| 35° | 12.2 | 13.0 | 13.8 | 13.0 | 11.9 |
| 37.5° | 9.5 | 10.3 | 10.7 | 9.9 | 9.1 |
| 40° | 7.9 | 8.3 | 8.7 | 8.3 | 7.9 |
| 42.5° | 6.7 | 7.1 | 7.1 | 7.1 | 6.7 |
| 45° | 5.9 | 5.9 | 6.3 | 5.9 | 5.9 |
| 47.5° | 5.1 | 5.1 | 5.5 | 5.1 | 5.1 |
| 50° | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 52.5° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 55° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 57.5° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 60° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 62.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 65° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 67.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 70° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 72.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 75° | 1.2 | 1.2 | 1.2 | 1.2 | 1.6 |
| 77.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 80° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 82.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 85° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 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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