

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: P785433

Luminaire Tested: LERS6D02D010-EC6DR300210IC9027-6LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P785433
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: LERS6D02D010-EC6DR300210IC9027-6LBS1H
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 629.8 lumens
Efficiency: N/A
Efficacy: 123.5 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): 5.1
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

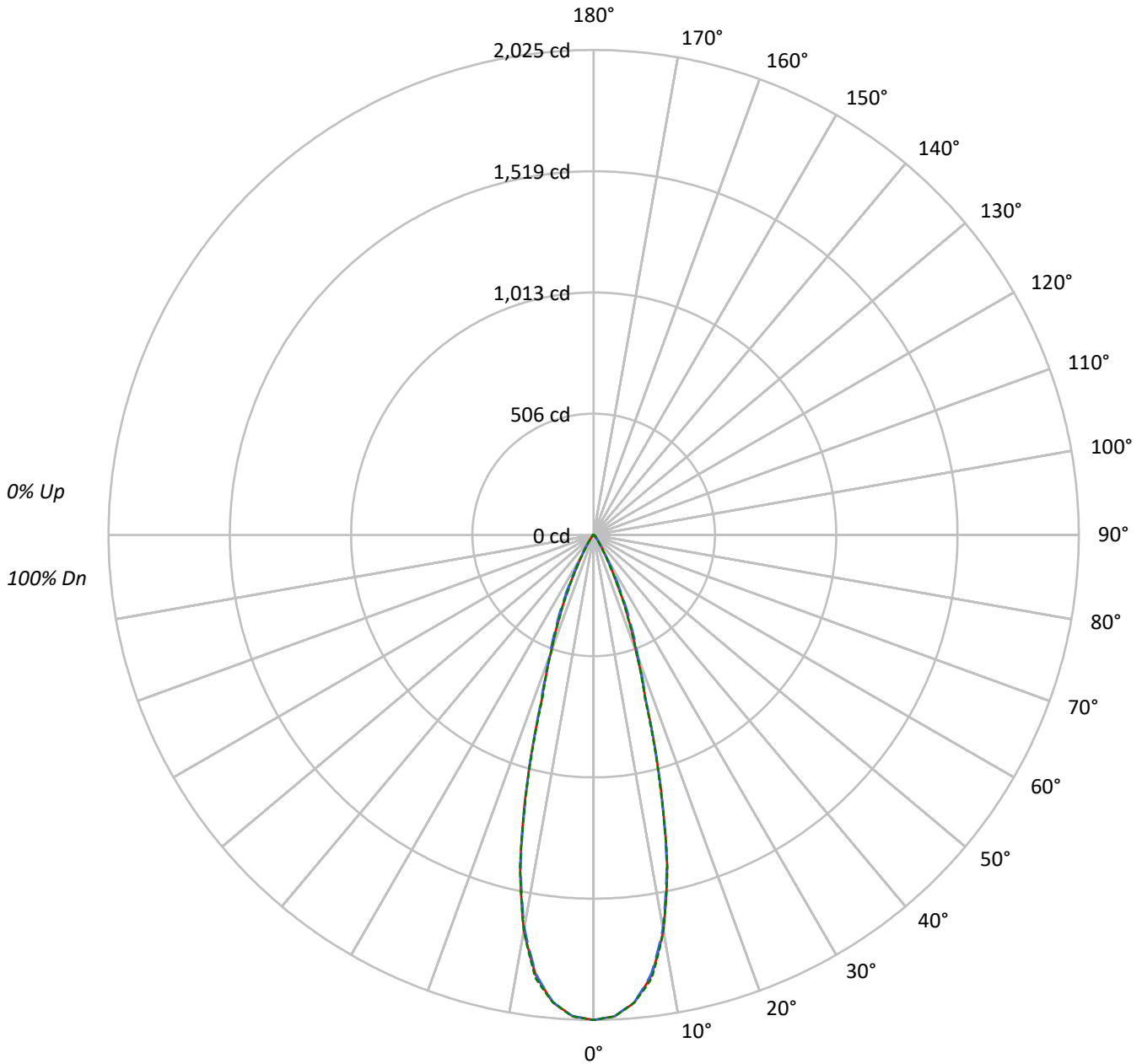


Downlight

TEST NUMBER: P785433

CATALOG NUMBER: LERS6D02D010-EC6DR300210IC9027-6LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P785433

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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° | 155000 | 155000 | 155000 |
| 5° | 150552 | 150375 | 150560 |
| 10° | 130398 | 129481 | 130367 |
| 15° | 85084 | 84624 | 84196 |
| 20° | 42308 | 43897 | 42251 |
| 25° | 21308 | 24028 | 20878 |
| 30° | 8529 | 9298 | 7433 |
| 35° | 3962 | 3794 | 3177 |
| 40° | 1709 | 1898 | 1609 |
| 45° | 1202 | 1494 | 1212 |
| 50° | 417 | 1084 | 441 |
| 55° | 240 | 454 | 254 |
| 60° | 168 | 199 | 168 |
| 65° | 109 | 109 | 109 |
| 70° | 67 | 45 | 67 |
| 75° | 0 | 30 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1494 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 178.1 | 28.3 |
| 10°-20° | 286.8 | 45.5 |
| 20°-30° | 123.9 | 19.7 |
| 30°-40° | 28.2 | 4.5 |
| 40°-50° | 9.7 | 1.5 |
| 50°-60° | 2.4 | 0.4 |
| 60°-70° | 0.6 | 0.1 |
| 70°-80° | 0.1 | 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° | 588.8 | 93.5 |
| 0°-40° | 617.0 | 98.0 |
| 0°-60° | 629.1 | 99.9 |
| 0°-90° | 629.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 629.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2025 | 2025 | 2025 | 2025 | 2025 | |
| 5° | 1959 | 1958 | 1957 | 1961 | 1960 | 178 |
| 15° | 1074 | 1061 | 1068 | 1064 | 1062 | 287 |
| 25° | 252 | 262 | 284 | 255 | 247 | 121 |
| 35° | 42 | 43 | 41 | 40 | 34 | 29 |
| 45° | 11 | 14 | 14 | 14 | 11 | 8 |
| 55° | 2 | 2 | 3 | 2 | 2 | 2 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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° | 2025.0 | 2025.0 | 2025.0 | 2025.0 | 2025.0 |
| 2.5° | 2011.6 | 2010.2 | 2011.0 | 2012.0 | 2012.4 |
| 5° | 1959.4 | 1957.5 | 1957.1 | 1961.2 | 1959.5 |
| 7.5° | 1854.1 | 1851.4 | 1847.3 | 1856.6 | 1865.2 |
| 10° | 1677.7 | 1674.8 | 1665.9 | 1670.3 | 1677.3 |
| 12.5° | 1417.4 | 1407.7 | 1407.5 | 1421.4 | 1419.5 |
| 15° | 1073.7 | 1060.7 | 1067.9 | 1064.4 | 1062.5 |
| 17.5° | 722.0 | 717.0 | 726.6 | 723.7 | 711.3 |
| 20° | 519.4 | 520.7 | 538.9 | 529.7 | 518.7 |
| 22.5° | 379.0 | 383.7 | 405.2 | 381.7 | 373.0 |
| 25° | 252.3 | 261.9 | 284.5 | 255.2 | 247.2 |
| 27.5° | 155.2 | 159.6 | 182.5 | 153.2 | 148.8 |
| 30° | 96.5 | 94.4 | 105.2 | 90.3 | 84.1 |
| 32.5° | 63.3 | 60.5 | 64.0 | 57.5 | 52.5 |
| 35° | 42.4 | 43.2 | 40.6 | 40.3 | 34.0 |
| 37.5° | 26.4 | 30.4 | 26.8 | 28.6 | 21.9 |
| 40° | 17.1 | 22.1 | 19.0 | 21.0 | 16.1 |
| 42.5° | 14.0 | 17.0 | 15.6 | 16.6 | 14.3 |
| 45° | 11.1 | 13.8 | 13.8 | 13.8 | 11.2 |
| 47.5° | 6.2 | 9.2 | 11.8 | 9.4 | 6.6 |
| 50° | 3.5 | 4.7 | 9.1 | 4.9 | 3.7 |
| 52.5° | 2.4 | 2.7 | 6.3 | 2.8 | 2.5 |
| 55° | 1.8 | 1.9 | 3.4 | 2.0 | 1.9 |
| 57.5° | 1.4 | 1.5 | 1.8 | 1.5 | 1.4 |
| 60° | 1.1 | 1.1 | 1.3 | 1.2 | 1.1 |
| 62.5° | 0.8 | 0.8 | 0.9 | 0.8 | 0.8 |
| 65° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 67.5° | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 |
| 70° | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 |
| 72.5° | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 75° | 0.0 | 0.0 | 0.1 | 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



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Scaled Data Report





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

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