

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: P788356

Luminaire Tested: LER6D08D010-EC6DR300210IC9040-6LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P788356
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: LER6D08D010-EC6DR300210IC9040-6LBS1H
Description: 6 INCH ROUND SHALLOW SEMI-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: 1513.1 lumens
Efficiency: N/A
Efficacy: 170.0 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

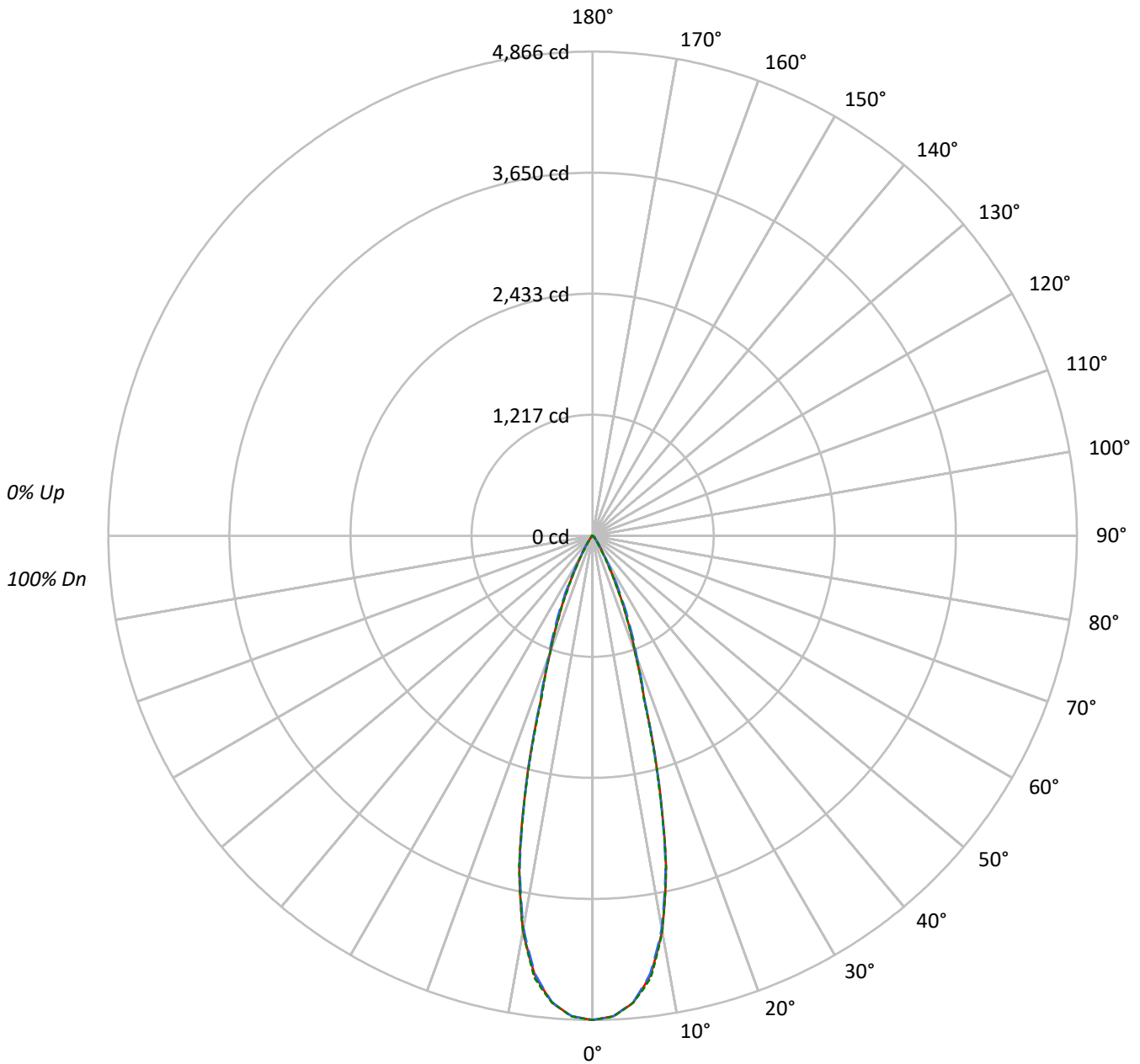
Input Watts (W): 8.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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CATALOG NUMBER: LER6D08D010-EC6DR300210IC9040-6LBS1H

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 | | | | | | 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° | 372422 | 372422 | 372422 |
| 5° | 361735 | 361313 | 361751 |
| 10° | 313314 | 311107 | 313244 |
| 15° | 204425 | 203323 | 202301 |
| 20° | 101649 | 105461 | 101510 |
| 25° | 51206 | 57743 | 50159 |
| 30° | 20505 | 22335 | 17863 |
| 35° | 9512 | 9111 | 7634 |
| 40° | 4107 | 4556 | 3867 |
| 45° | 2901 | 3594 | 2923 |
| 50° | 1000 | 2620 | 1048 |
| 55° | 574 | 1081 | 601 |
| 60° | 398 | 475 | 398 |
| 65° | 254 | 254 | 254 |
| 70° | 157 | 112 | 157 |
| 75° | 0 | 59 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3594 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 427.9 | 28.3 |
| 10°-20° | 689.1 | 45.5 |
| 20°-30° | 297.8 | 19.7 |
| 30°-40° | 67.9 | 4.5 |
| 40°-50° | 23.3 | 1.5 |
| 50°-60° | 5.7 | 0.4 |
| 60°-70° | 1.5 | 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° | 1414.7 | 93.5 |
| 0°-40° | 1482.5 | 98.0 |
| 0°-60° | 1511.5 | 99.9 |
| 0°-90° | 1513.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1513.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4866 | 4866 | 4866 | 4866 | 4866 | |
| 5° | 4708 | 4703 | 4702 | 4712 | 4708 | 428 |
| 15° | 2580 | 2549 | 2566 | 2558 | 2553 | 691 |
| 25° | 606 | 629 | 684 | 613 | 594 | 290 |
| 35° | 102 | 104 | 98 | 97 | 82 | 69 |
| 45° | 27 | 33 | 33 | 33 | 27 | 19 |
| 55° | 4 | 4 | 8 | 5 | 4 | 4 |
| 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 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4865.5 | 4865.5 | 4865.5 | 4865.5 | 4865.5 |
| 2.5° | 4833.3 | 4829.9 | 4831.9 | 4834.2 | 4835.2 |
| 5° | 4707.9 | 4703.3 | 4702.4 | 4712.2 | 4708.1 |
| 7.5° | 4454.9 | 4448.5 | 4438.7 | 4460.9 | 4481.7 |
| 10° | 4031.1 | 4024.0 | 4002.7 | 4013.2 | 4030.2 |
| 12.5° | 3405.5 | 3382.3 | 3381.8 | 3415.3 | 3410.8 |
| 15° | 2579.7 | 2548.6 | 2565.8 | 2557.5 | 2552.9 |
| 17.5° | 1734.8 | 1722.8 | 1745.7 | 1738.8 | 1709.0 |
| 20° | 1247.9 | 1251.0 | 1294.7 | 1272.8 | 1246.2 |
| 22.5° | 910.6 | 921.8 | 973.7 | 917.1 | 896.3 |
| 25° | 606.3 | 629.2 | 683.7 | 613.2 | 593.9 |
| 27.5° | 372.9 | 383.4 | 438.6 | 368.1 | 357.6 |
| 30° | 232.0 | 226.7 | 252.7 | 216.9 | 202.1 |
| 32.5° | 152.2 | 145.5 | 153.8 | 138.1 | 126.1 |
| 35° | 101.8 | 103.9 | 97.5 | 96.7 | 81.7 |
| 37.5° | 63.5 | 73.1 | 64.5 | 68.8 | 52.6 |
| 40° | 41.1 | 53.0 | 45.6 | 50.4 | 38.7 |
| 42.5° | 33.7 | 40.8 | 37.5 | 39.9 | 34.4 |
| 45° | 26.8 | 33.2 | 33.2 | 33.2 | 27.0 |
| 47.5° | 14.8 | 22.2 | 28.4 | 22.7 | 15.8 |
| 50° | 8.4 | 11.2 | 22.0 | 11.7 | 8.8 |
| 52.5° | 5.7 | 6.4 | 15.0 | 6.7 | 6.0 |
| 55° | 4.3 | 4.5 | 8.1 | 4.8 | 4.5 |
| 57.5° | 3.3 | 3.6 | 4.3 | 3.6 | 3.3 |
| 60° | 2.6 | 2.6 | 3.1 | 2.9 | 2.6 |
| 62.5° | 1.9 | 1.9 | 2.1 | 1.9 | 1.9 |
| 65° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 67.5° | 0.7 | 1.0 | 1.0 | 1.0 | 1.0 |
| 70° | 0.7 | 0.5 | 0.5 | 0.5 | 0.7 |
| 72.5° | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 |
| 75° | 0.0 | 0.0 | 0.2 | 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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