

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: P787075

Luminaire Tested: LER6D02D010-EC6DR300210IC9024-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P787075
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: LER6D02D010-EC6DR300210IC9024-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 531.9 lumens
Efficiency: N/A
Efficacy: 104.3 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

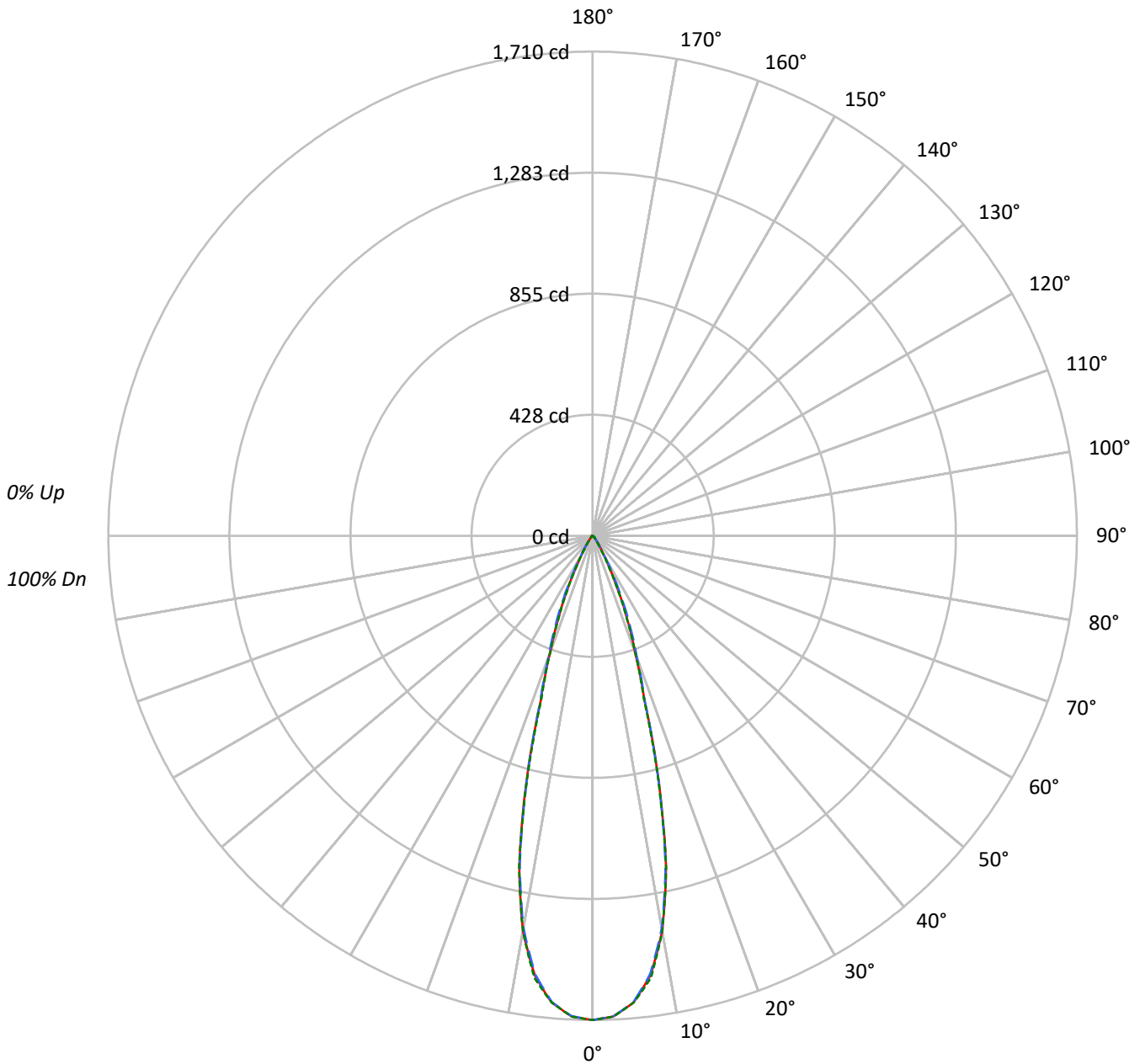


Downlight

TEST NUMBER: P787075

CATALOG NUMBER: LER6D02D010-EC6DR300210IC9024-6LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P787075

CATALOG NUMBER: LER6D02D010-EC6DR300210IC9024-6LBS1B

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° | 130912 | 130912 | 130912 |
| 5° | 127156 | 127010 | 127163 |
| 10° | 110135 | 109358 | 110112 |
| 15° | 71858 | 71470 | 71113 |
| 20° | 35735 | 37071 | 35686 |
| 25° | 17998 | 20295 | 17634 |
| 30° | 7203 | 7849 | 6275 |
| 35° | 3345 | 3205 | 2682 |
| 40° | 1439 | 1599 | 1359 |
| 45° | 1018 | 1267 | 1028 |
| 50° | 345 | 917 | 369 |
| 55° | 200 | 387 | 214 |
| 60° | 138 | 168 | 138 |
| 65° | 91 | 91 | 91 |
| 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: 1267 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 150.4 | 28.3 |
| 10°-20° | 242.2 | 45.5 |
| 20°-30° | 104.7 | 19.7 |
| 30°-40° | 23.9 | 4.5 |
| 40°-50° | 8.2 | 1.5 |
| 50°-60° | 2.0 | 0.4 |
| 60°-70° | 0.5 | 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° | 497.3 | 93.5 |
| 0°-40° | 521.1 | 98.0 |
| 0°-60° | 531.3 | 99.9 |
| 0°-90° | 531.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 531.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1710 | 1710 | 1710 | 1710 | 1710 | |
| 5° | 1655 | 1653 | 1653 | 1656 | 1655 | 151 |
| 15° | 907 | 896 | 902 | 899 | 897 | 243 |
| 25° | 213 | 221 | 240 | 216 | 209 | 102 |
| 35° | 36 | 36 | 34 | 34 | 29 | 24 |
| 45° | 9 | 12 | 12 | 12 | 10 | 7 |
| 55° | 2 | 2 | 3 | 2 | 2 | 1 |
| 65° | 0 | 0 | 0 | 0 | 0 | 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° | 1710.3 | 1710.3 | 1710.3 | 1710.3 | 1710.3 |
| 2.5° | 1699.0 | 1697.8 | 1698.5 | 1699.3 | 1699.7 |
| 5° | 1654.9 | 1653.3 | 1653.0 | 1656.4 | 1655.0 |
| 7.5° | 1566.0 | 1563.7 | 1560.3 | 1568.1 | 1575.4 |
| 10° | 1417.0 | 1414.5 | 1407.0 | 1410.7 | 1416.7 |
| 12.5° | 1197.1 | 1189.0 | 1188.8 | 1200.5 | 1199.0 |
| 15° | 906.8 | 895.9 | 901.9 | 899.0 | 897.4 |
| 17.5° | 609.8 | 605.6 | 613.7 | 611.2 | 600.7 |
| 20° | 438.7 | 439.8 | 455.1 | 447.4 | 438.1 |
| 22.5° | 320.1 | 324.0 | 342.3 | 322.4 | 315.1 |
| 25° | 213.1 | 221.2 | 240.3 | 215.6 | 208.8 |
| 27.5° | 131.1 | 134.8 | 154.2 | 129.4 | 125.7 |
| 30° | 81.5 | 79.7 | 88.8 | 76.2 | 71.0 |
| 32.5° | 53.5 | 51.1 | 54.1 | 48.5 | 44.3 |
| 35° | 35.8 | 36.5 | 34.3 | 34.0 | 28.7 |
| 37.5° | 22.3 | 25.7 | 22.7 | 24.2 | 18.5 |
| 40° | 14.4 | 18.6 | 16.0 | 17.7 | 13.6 |
| 42.5° | 11.8 | 14.4 | 13.2 | 14.0 | 12.1 |
| 45° | 9.4 | 11.7 | 11.7 | 11.7 | 9.5 |
| 47.5° | 5.2 | 7.8 | 10.0 | 8.0 | 5.5 |
| 50° | 2.9 | 3.9 | 7.7 | 4.1 | 3.1 |
| 52.5° | 2.0 | 2.3 | 5.3 | 2.4 | 2.1 |
| 55° | 1.5 | 1.6 | 2.9 | 1.7 | 1.6 |
| 57.5° | 1.2 | 1.3 | 1.5 | 1.3 | 1.2 |
| 60° | 0.9 | 0.9 | 1.1 | 1.0 | 0.9 |
| 62.5° | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 |
| 65° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 67.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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