

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: P789460

Luminaire Tested: LER6D15D010-EC6DR1515309040-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P789460
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: LER6D15D010-EC6DR1515309040-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1530.2 lumens
Efficiency: N/A
Efficacy: 96.8 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

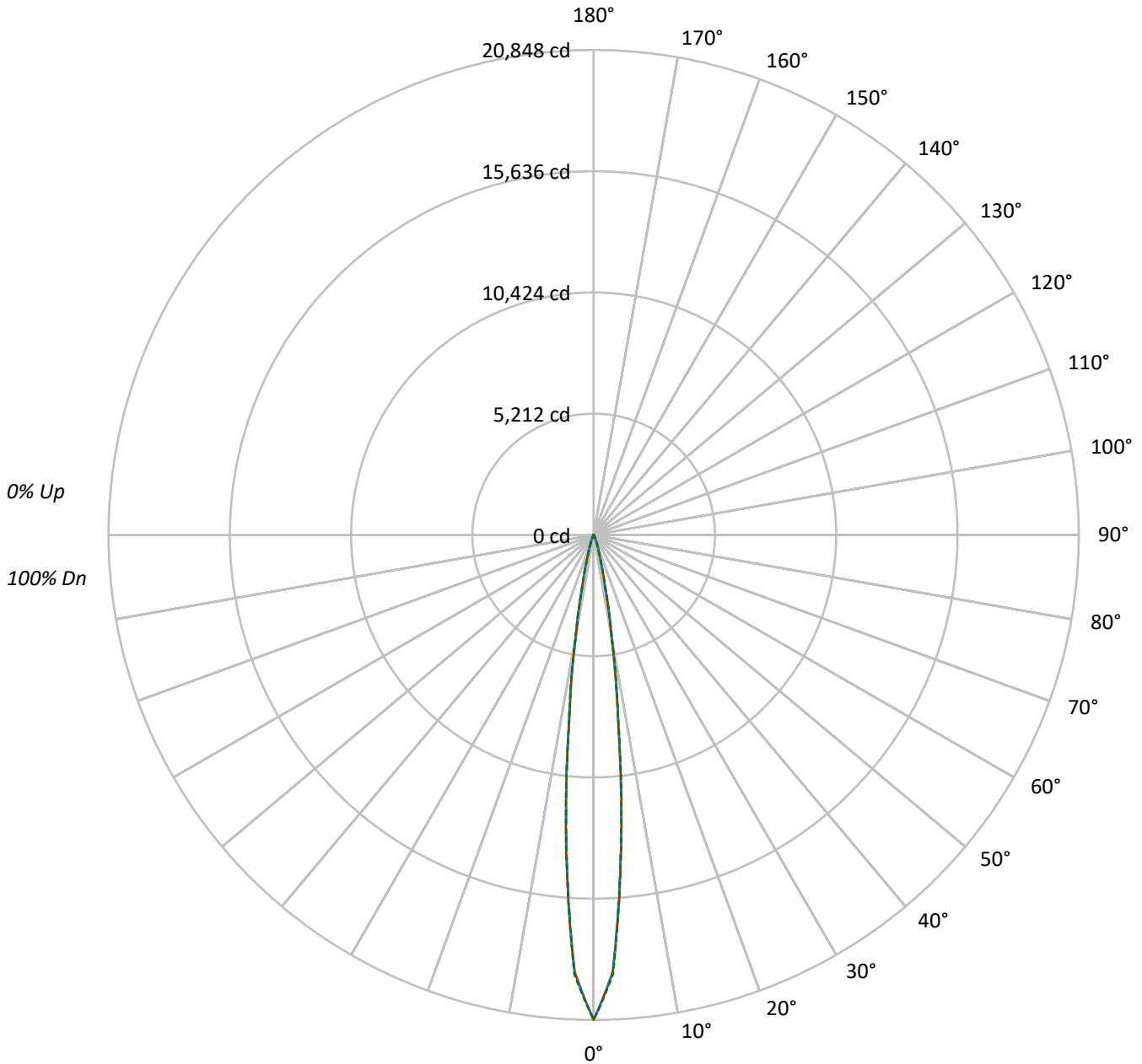
Input Watts (W): 15.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P789460
CATALOG NUMBER: LER6D15D010-EC6DR1515309040-6LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P789460

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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 | 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 | 88 | 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° | 2345838 | 2345838 | 2345838 |
| 5° | 1378525 | 1360679 | 1371441 |
| 10° | 411421 | 414304 | 420649 |
| 15° | 102335 | 104332 | 101110 |
| 20° | 30618 | 35454 | 31273 |
| 25° | 10797 | 13749 | 10929 |
| 30° | 3969 | 5219 | 4029 |
| 35° | 1990 | 2244 | 1924 |
| 40° | 1257 | 1378 | 1257 |
| 45° | 924 | 987 | 924 |
| 50° | 737 | 737 | 737 |
| 55° | 613 | 613 | 613 |
| 60° | 498 | 498 | 498 |
| 65° | 378 | 378 | 378 |
| 70° | 322 | 322 | 322 |
| 75° | 197 | 197 | 265 |
| 80° | 142 | 142 | 142 |
| 85° | 75 | 75 | 75 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 987 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 992.4 | 64.9 |
| 10°-20° | 408.2 | 26.7 |
| 20°-30° | 81.1 | 5.3 |
| 30°-40° | 20.2 | 1.3 |
| 40°-50° | 10.6 | 0.7 |
| 50°-60° | 7.9 | 0.5 |
| 60°-70° | 5.6 | 0.4 |
| 70°-80° | 3.1 | 0.2 |
| 80°-90° | 1.0 | 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 |
| 0°-30° | 1481.7 | 96.8 |
| 0°-40° | 1501.9 | 98.2 |
| 0°-60° | 1520.5 | 99.4 |
| 0°-90° | 1530.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1530.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 20848 | 20848 | 20848 | 20848 | 20848 | |
| 5° | 13564 | 13425 | 13389 | 13481 | 13495 | 991 |
| 15° | 1178 | 1200 | 1201 | 1180 | 1164 | 404 |
| 25° | 139 | 157 | 176 | 156 | 140 | 73 |
| 35° | 27 | 29 | 31 | 29 | 26 | 19 |
| 45° | 13 | 13 | 14 | 13 | 13 | 10 |
| 55° | 9 | 9 | 9 | 9 | 9 | 8 |
| 65° | 5 | 5 | 5 | 5 | 5 | 6 |
| 75° | 3 | 3 | 3 | 3 | 4 | 3 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P789460

CATALOG NUMBER: LER6D15D010-EC6DR1515309040-6LBS1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 20848.2 | 20848.2 | 20848.2 | 20848.2 | 20848.2 |
| 2.5° | 18805.9 | 18821.8 | 18828.0 | 18846.5 | 18915.4 |
| 5° | 13564.3 | 13424.9 | 13388.7 | 13481.3 | 13494.6 |
| 7.5° | 8035.0 | 8063.2 | 8166.5 | 8189.4 | 8106.5 |
| 10° | 4409.3 | 4445.5 | 4440.2 | 4472.0 | 4508.2 |
| 12.5° | 2255.0 | 2226.7 | 2217.9 | 2254.1 | 2203.8 |
| 15° | 1178.2 | 1200.3 | 1201.2 | 1180.0 | 1164.1 |
| 17.5° | 633.7 | 659.3 | 701.6 | 667.2 | 614.3 |
| 20° | 374.2 | 397.2 | 433.3 | 405.1 | 382.2 |
| 22.5° | 231.2 | 249.8 | 275.4 | 253.3 | 234.8 |
| 25° | 138.6 | 157.1 | 176.5 | 156.2 | 140.3 |
| 27.5° | 82.1 | 98.0 | 110.3 | 97.1 | 81.2 |
| 30° | 53.0 | 61.8 | 69.7 | 60.9 | 53.8 |
| 32.5° | 37.1 | 40.6 | 44.1 | 40.6 | 37.1 |
| 35° | 27.4 | 29.1 | 30.9 | 29.1 | 26.5 |
| 37.5° | 21.2 | 22.9 | 23.8 | 22.1 | 20.3 |
| 40° | 17.7 | 18.5 | 19.4 | 18.5 | 17.7 |
| 42.5° | 15.0 | 15.9 | 15.9 | 15.9 | 15.0 |
| 45° | 13.2 | 13.2 | 14.1 | 13.2 | 13.2 |
| 47.5° | 11.5 | 11.5 | 12.4 | 11.5 | 11.5 |
| 50° | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| 52.5° | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 |
| 55° | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| 57.5° | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| 60° | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| 62.5° | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 65° | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| 67.5° | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| 70° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 72.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 75° | 2.6 | 2.6 | 2.6 | 2.6 | 3.5 |
| 77.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 80° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 82.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 85° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 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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