

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: P791192

Luminaire Tested: LER6D30D010-EC6DR1515309027-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P791192
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: LER6D30D010-EC6DR1515309027-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3117.3 lumens
Efficiency: N/A
Efficacy: 107.5 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

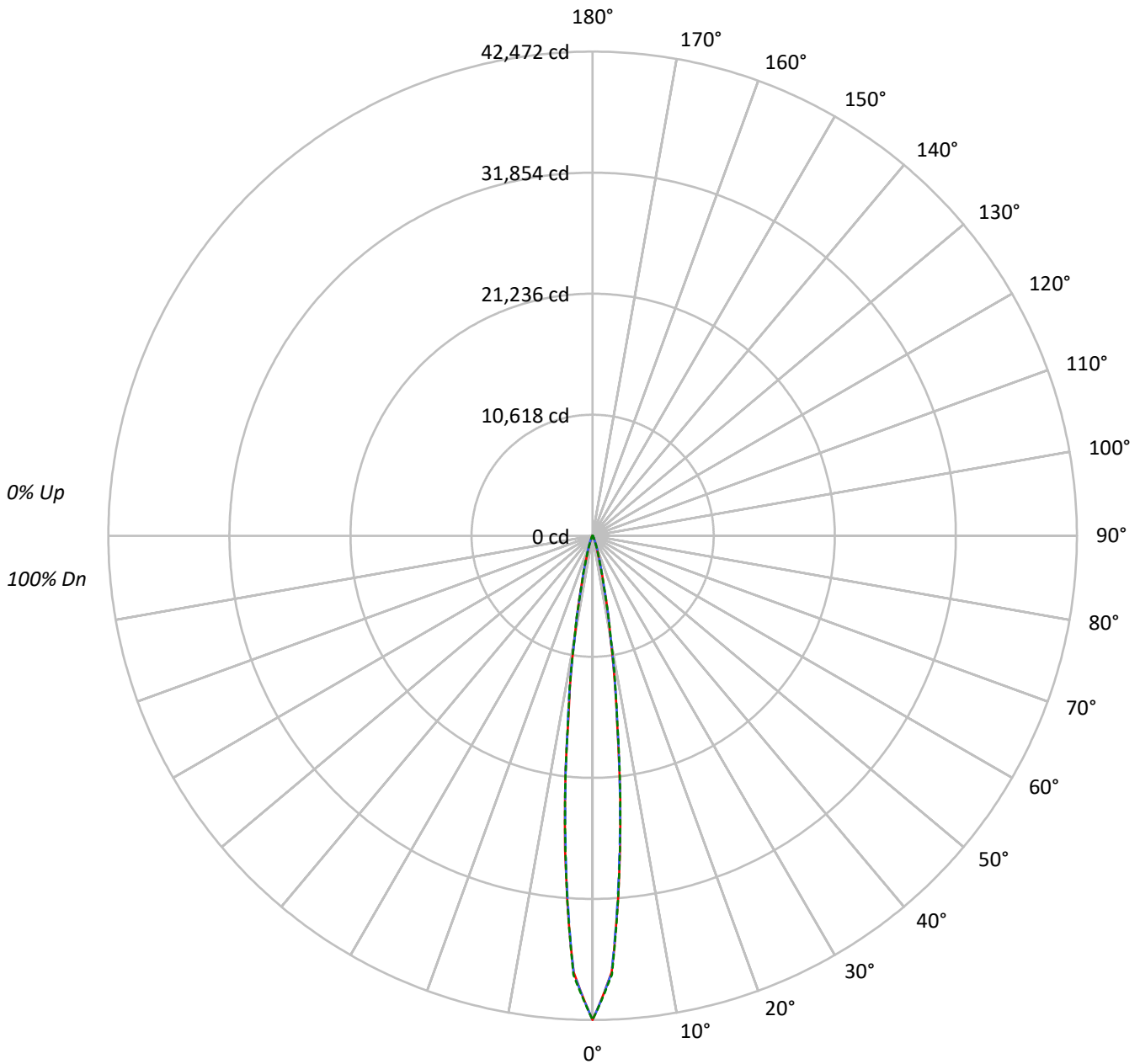
Input Watts (W): 29
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P791192
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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 | 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° | 4778936 | 4778936 | 4778936 |
| 5° | 2808322 | 2771959 | 2793890 |
| 10° | 838154 | 844023 | 856946 |
| 15° | 208482 | 212539 | 205981 |
| 20° | 62374 | 72233 | 63699 |
| 25° | 21991 | 28013 | 22272 |
| 30° | 8080 | 10633 | 8214 |
| 35° | 4045 | 4568 | 3914 |
| 40° | 2557 | 2812 | 2557 |
| 45° | 1890 | 2016 | 1890 |
| 50° | 1502 | 1502 | 1502 |
| 55° | 1253 | 1253 | 1253 |
| 60° | 1011 | 1011 | 1011 |
| 65° | 771 | 771 | 771 |
| 70° | 658 | 658 | 658 |
| 75° | 408 | 408 | 544 |
| 80° | 284 | 284 | 284 |
| 85° | 149 | 149 | 149 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2016 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2021.7 | 64.9 |
| 10°-20° | 831.6 | 26.7 |
| 20°-30° | 165.2 | 5.3 |
| 30°-40° | 41.2 | 1.3 |
| 40°-50° | 21.7 | 0.7 |
| 50°-60° | 16.1 | 0.5 |
| 60°-70° | 11.4 | 0.4 |
| 70°-80° | 6.5 | 0.2 |
| 80°-90° | 2.0 | 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° | 3018.5 | 96.8 |
| 0°-40° | 3059.7 | 98.2 |
| 0°-60° | 3097.5 | 99.4 |
| 0°-90° | 3117.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3117.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 42472 | 42472 | 42472 | 42472 | 42472 | |
| 5° | 27633 | 27349 | 27275 | 27464 | 27491 | 2018 |
| 15° | 2400 | 2445 | 2447 | 2404 | 2372 | 823 |
| 25° | 282 | 320 | 360 | 318 | 286 | 148 |
| 35° | 56 | 59 | 63 | 59 | 54 | 38 |
| 45° | 27 | 27 | 29 | 27 | 27 | 21 |
| 55° | 18 | 18 | 18 | 18 | 18 | 16 |
| 65° | 11 | 11 | 11 | 11 | 11 | 11 |
| 75° | 5 | 5 | 5 | 5 | 7 | 6 |
| 85° | 2 | 2 | 2 | 2 | 2 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 42471.9 | 42471.9 | 42471.9 | 42471.9 | 42471.9 |
| 2.5° | 38311.3 | 38343.7 | 38356.3 | 38394.1 | 38534.3 |
| 5° | 27633.1 | 27349.1 | 27275.3 | 27464.1 | 27491.1 |
| 7.5° | 16368.8 | 16426.3 | 16636.7 | 16683.5 | 16514.4 |
| 10° | 8982.7 | 9056.4 | 9045.6 | 9110.4 | 9184.1 |
| 12.5° | 4593.8 | 4536.3 | 4518.3 | 4592.0 | 4489.6 |
| 15° | 2400.3 | 2445.3 | 2447.0 | 2403.9 | 2371.5 |
| 17.5° | 1290.9 | 1343.1 | 1429.4 | 1359.3 | 1251.4 |
| 20° | 762.3 | 809.1 | 882.8 | 825.3 | 778.5 |
| 22.5° | 471.1 | 508.8 | 561.0 | 516.0 | 478.3 |
| 25° | 282.3 | 320.0 | 359.6 | 318.2 | 285.9 |
| 27.5° | 167.2 | 199.6 | 224.7 | 197.8 | 165.4 |
| 30° | 107.9 | 125.9 | 142.0 | 124.1 | 109.7 |
| 32.5° | 75.5 | 82.7 | 89.9 | 82.7 | 75.5 |
| 35° | 55.7 | 59.3 | 62.9 | 59.3 | 53.9 |
| 37.5° | 43.2 | 46.7 | 48.5 | 44.9 | 41.4 |
| 40° | 36.0 | 37.8 | 39.6 | 37.8 | 36.0 |
| 42.5° | 30.6 | 32.4 | 32.4 | 32.4 | 30.6 |
| 45° | 27.0 | 27.0 | 28.8 | 27.0 | 27.0 |
| 47.5° | 23.4 | 23.4 | 25.2 | 23.4 | 23.4 |
| 50° | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 |
| 52.5° | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 |
| 55° | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| 57.5° | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 |
| 60° | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 |
| 62.5° | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 |
| 65° | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| 67.5° | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| 70° | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 72.5° | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 75° | 5.4 | 5.4 | 5.4 | 5.4 | 7.2 |
| 77.5° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 80° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 82.5° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 85° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 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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