Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1310963

Luminaire Tested: LDSQA3D02R209040DE010 3LSQPHRLP1MW

Issue Date: 1/29/2026

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | P1310963 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-12) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 1/29/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | PORTFOLIO |
| Catalog Number: | LDSQA3D02R209040DE010 3LSQPHRLP1MW |
| Description: | 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , 3LSQPHRLP1MW TRIM |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 149.0 lumens |
| Efficiency: | N/A |
| Efficacy: | 41.4 lumens/watt |
| Spacing Criteria (0/90/45): | 0.62 / 0.6 / 0.65 |
| Luminous Opening: | Rectangular (W 0.25' x L: 0.25' x H: 0') |
| CIE Type: | Direct |
| | |
| Input Watts (W): | 3.6 |
| Input Voltage (V): | NR |
| Input Current (Ain): | 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 |

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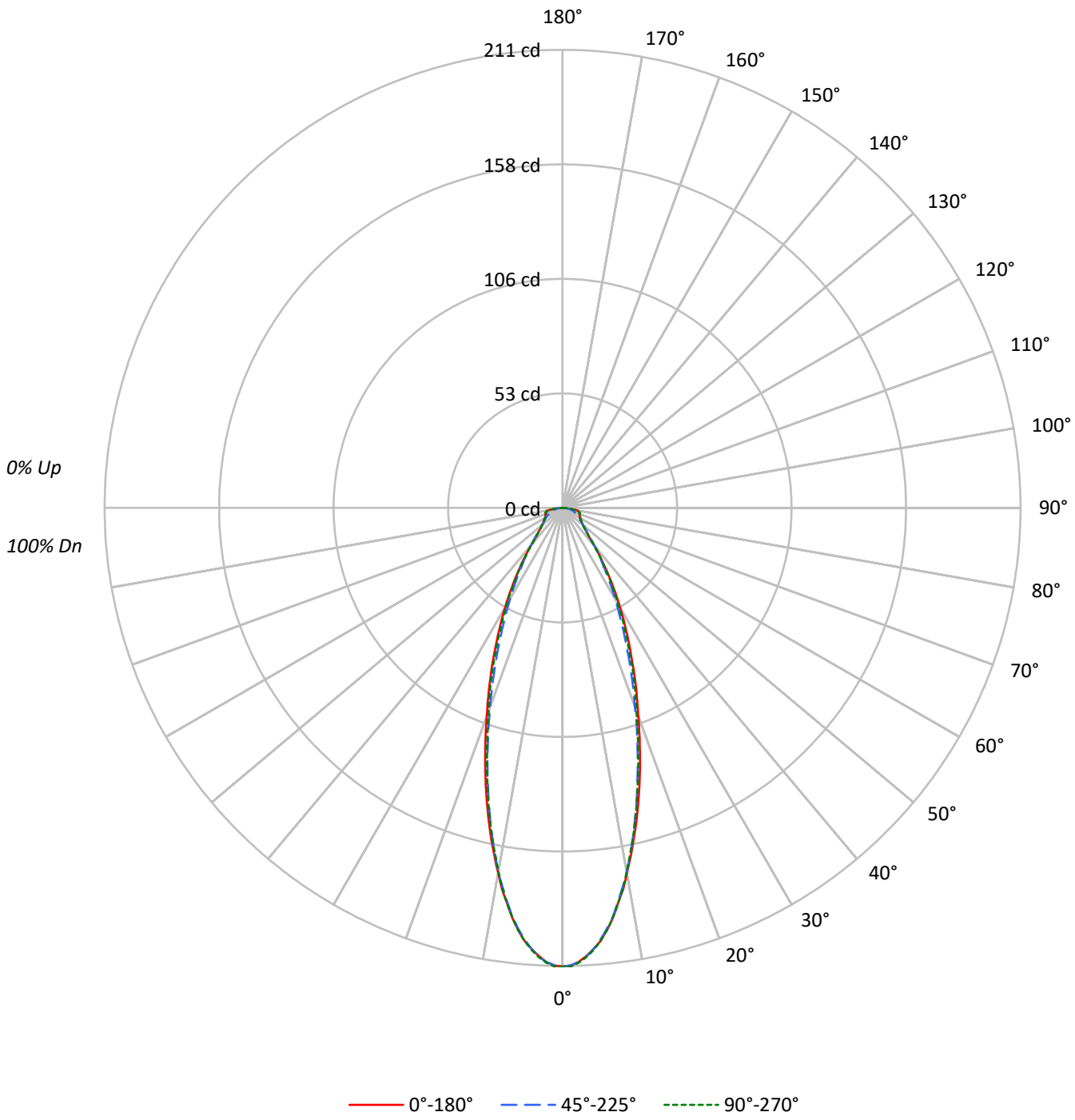
## Luminous Intensity Polar Plot



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## COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| RF | 20 | | | | 20 | | | | 20 | | | 20 | | | 20 | | | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 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 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 96 | 97 | 95 | 94 | 94 | 92 | 91 | 89 |
| 2 | 104 | 98 | 93 | 88 | 102 | 96 | 91 | 87 | 93 | 89 | 85 | 90 | 86 | 83 | 87 | 84 | 82 | 80 |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 85 | 81 | 77 | 83 | 79 | 75 | 81 | 77 | 74 | 72 |
| 4 | 92 | 83 | 76 | 71 | 90 | 82 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 69 | 75 | 71 | 68 | 66 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 68 | 64 | 72 | 67 | 63 | 71 | 66 | 63 | 61 |
| 6 | 82 | 72 | 65 | 60 | 81 | 71 | 65 | 60 | 69 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 59 | 57 |
| 7 | 78 | 67 | 61 | 56 | 77 | 67 | 60 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 53 |
| 8 | 74 | 63 | 57 | 52 | 73 | 63 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 52 | 60 | 55 | 51 | 50 |
| 9 | 71 | 60 | 53 | 49 | 69 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 57 | 52 | 48 | 47 |
| 10 | 67 | 57 | 50 | 46 | 66 | 56 | 50 | 46 | 55 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 46 | 44 |

## AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|---|---|---|---|
| 0° | 36391 | 36391 | 36391 |
| 5° | 34628 | 34524 | 34628 |
| 10° | 29887 | 29799 | 29747 |
| 15° | 24249 | 23696 | 23785 |
| 20° | 18694 | 17869 | 18199 |
| 25° | 14195 | 13150 | 13796 |
| 30° | 10540 | 9585 | 10222 |
| 35° | 7443 | 6938 | 7338 |
| 40° | 5126 | 5126 | 5014 |
| 45° | 3775 | 3970 | 3775 |
| 50° | 3296 | 3296 | 3296 |
| 55° | 3153 | 3063 | 3153 |
| 60° | 3238 | 2997 | 3238 |
| 65° | 3545 | 2975 | 3545 |
| 70° | 4230 | 3021 | 4230 |
| 75° | 5390 | 3327 | 5390 |
| 80° | 6744 | 3372 | 6546 |
| 85° | 5138 | 3162 | 5730 |

## MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 80°
Luminance: 6744 cd/sqm

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**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 18.1 | 12.2 |
| 10°-20° | 37.0 | 24.8 |
| 20°-30° | 33.0 | 22.2 |
| 30°-40° | 21.7 | 14.6 |
| 40°-50° | 12.6 | 8.5 |
| 50°-60° | 9.4 | 6.3 |
| 60°-70° | 7.9 | 5.3 |
| 70°-80° | 6.5 | 4.4 |
| 80°-90° | 2.7 | 1.8 |
| 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° | 88.2 | 59.2 |
| 0°-40° | 109.9 | 73.7 |
| 0°-60° | 131.8 | 88.5 |
| 0°-90° | 149.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 149.0 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|---|---|---|---|---|---|---|
| 0° | 211 | 211 | 211 | 211 | 211 | |
| 5° | 200 | 200 | 200 | 200 | 200 | 18 |
| 15° | 136 | 135 | 133 | 133 | 133 | 38 |
| 25° | 75 | 73 | 69 | 71 | 73 | 34 |
| 35° | 35 | 34 | 33 | 34 | 35 | 23 |
| 45° | 16 | 16 | 16 | 16 | 16 | 12 |
| 55° | 10 | 10 | 10 | 10 | 10 | 10 |
| 65° | 9 | 8 | 7 | 8 | 9 | 9 |
| 75° | 8 | 6 | 5 | 6 | 8 | 8 |
| 85° | 3 | 3 | 2 | 3 | 3 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 22.5° | 45° | 67.5° | 90° |
|---|---|---|---|---|---|
| 0° | *211.3* | *211.3* | *211.3* | *211.3* | *211.3* |
| 1° | *210.8* | 211.0 | 210.8 | 211.0 | 211.3 |
| 2° | *209.4* | 209.7 | 209.4 | 209.4 | 209.7 |
| 3° | *206.8* | 207.1 | 207.1 | 207.1 | 207.3 |
| 4° | *203.7* | 203.9 | 203.7 | 203.9 | 204.2 |
| 5° | *200.3* | 200.0 | 199.7 | 200.0 | 200.3 |
| 6° | *195.6* | 195.3 | 195.0 | 195.3 | 195.6 |
| 7° | *190.3* | 190.0 | 189.8 | 189.8 | 190.0 |
| 8° | *183.8* | 184.0 | 183.2 | 183.8 | 184.0 |
| 9° | *178.0* | 177.5 | 176.9 | 176.9 | 177.5 |
| 10° | *170.9* | 170.4 | 170.4 | 170.1 | 170.1 |
| 12.5° | *153.6* | 152.6 | 151.8 | 151.8 | 152.0 |
| 15° | *136.0* | 134.7 | 132.9 | 133.2 | 133.4 |
| 17.5° | *118.5* | 116.9 | 114.6 | 115.1 | 115.6 |
| 20° | *102.0* | 100.4 | 97.5 | 98.6 | 99.3 |
| 22.5° | *87.8* | 85.5 | 82.8 | 83.6 | 86.2 |
| 25° | *74.7* | 72.6 | 69.2 | 71.0 | 72.6 |
| 27.5° | *63.2* | 60.8 | 57.9 | 59.8 | 61.3 |
| 30° | *53.0* | 50.9 | 48.2 | 49.8 | 51.4 |
| 32.5° | *43.8* | 41.9 | 40.1 | 41.2 | 42.5 |
| 35° | *35.4* | 34.3 | 33.0 | 34.1 | 34.9 |
| 37.5° | *28.6* | 28.0 | 27.5 | 28.0 | 27.8 |
| 40° | *22.8* | 23.1 | 22.8 | 22.8 | 22.3 |
| 42.5° | *18.1* | 18.9 | 19.1 | 18.6 | 18.1 |
| 45° | *15.5* | 15.7 | 16.3 | 15.7 | 15.5 |
| 47.5° | *13.6* | 13.6 | 13.9 | 13.6 | 13.4 |
| 50° | *12.3* | 12.3 | 12.3 | 12.3 | 12.3 |
| 52.5° | *11.3* | 11.3 | 11.0 | 11.3 | 11.3 |
| 55° | *10.5* | 10.2 | 10.2 | 10.2 | 10.5 |
| 57.5° | *10.0* | 9.7 | 9.4 | 9.7 | 10.0 |
| 60° | *9.4* | 8.9 | 8.7 | 8.9 | 9.4 |
| 62.5° | *8.9* | 8.4 | 8.1 | 8.4 | 8.9 |
| 65° | *8.7* | 7.9 | 7.3 | 7.9 | 8.7 |
| 67.5° | *8.4* | 7.3 | 6.8 | 7.3 | 8.7 |
| 70° | *8.4* | 6.8 | 6.0 | 7.1 | 8.4 |
| 72.5° | *8.1* | 6.6 | 5.5 | 6.6 | 8.1 |
| 75° | *8.1* | 6.0 | 5.0 | 6.0 | 8.1 |
| 77.5° | *7.6* | 5.5 | 4.2 | 5.5 | 7.6 |
| 80° | *6.8* | 5.0 | 3.4 | 5.0 | 6.6 |
| 82.5° | *5.0* | 4.2 | 2.6 | 4.2 | 5.0 |
| 85° | *2.6* | 2.9 | 1.6 | 2.9 | 2.9 |
| 87.5° | *0.3* | 1.0 | 0.5 | 1.6 | 1.3 |
| 90° | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)