

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: P1320357

Luminaire Tested: LDSQA3D20R159840D010 3LSQPHRL1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R159840D010 3LSQPHRL1MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , 3LSQPHRL1MMS TRIM
Light Source: -
Ballast/Driver: -

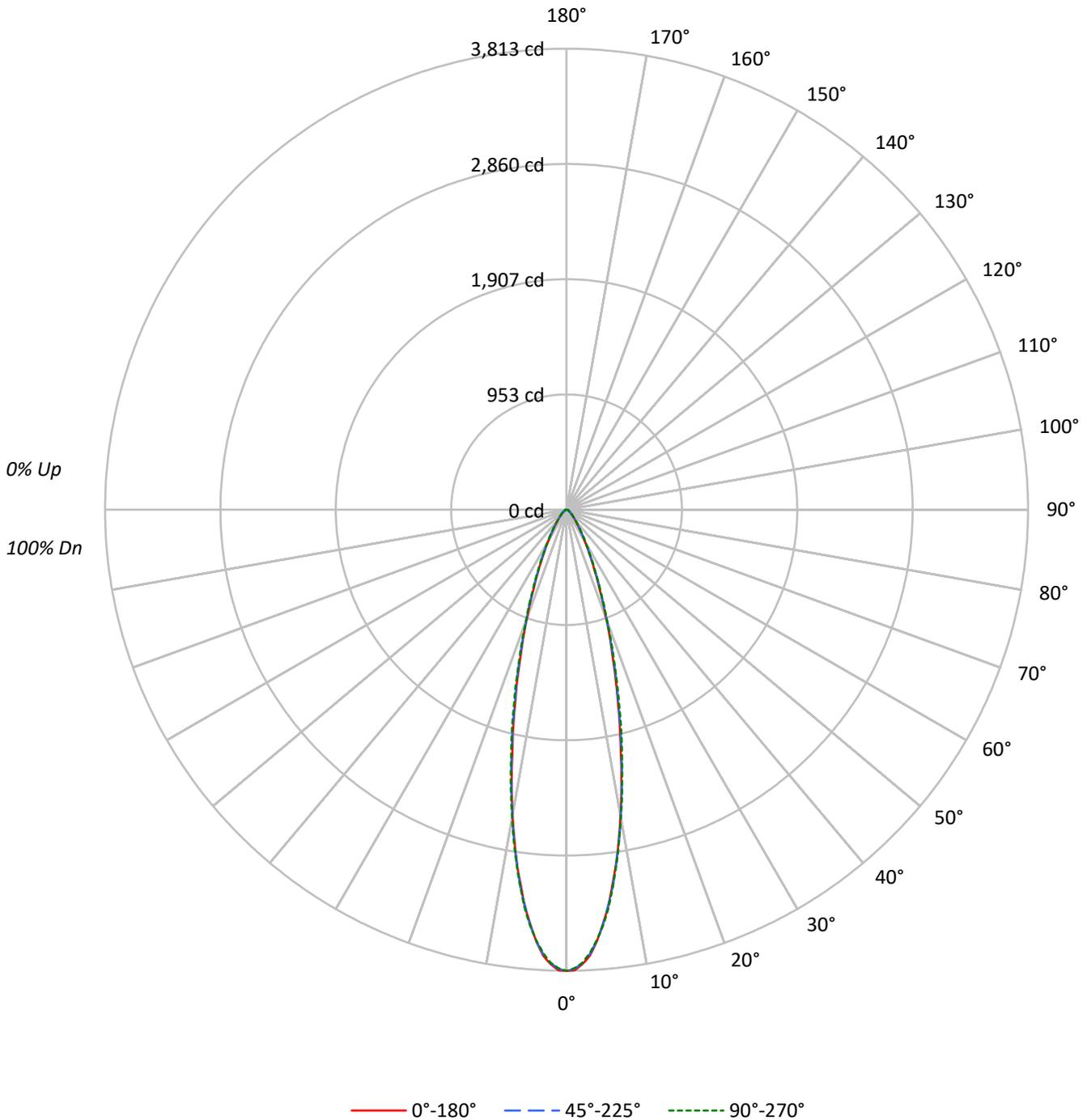
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1261.0 lumens
Efficiency: N/A
Efficacy: 46.0 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.46 / 0.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 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 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 96 | 96 | 96 | 94 |
| 2 | 109 | 104 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 90 | 90 | 90 | 89 |
| 3 | 104 | 98 | 94 | 90 | 102 | 97 | 93 | 89 | 94 | 91 | 88 | 92 | 89 | 87 | 90 | 87 | 85 | 85 | 85 | 85 | 84 |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 81 | 81 | 81 | 80 |
| 5 | 96 | 88 | 83 | 79 | 94 | 87 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 78 | 83 | 79 | 77 | 77 | 77 | 77 | 76 |
| 6 | 92 | 84 | 79 | 75 | 91 | 83 | 78 | 75 | 82 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 73 | 73 | 73 | 72 |
| 7 | 88 | 80 | 75 | 71 | 87 | 80 | 75 | 71 | 79 | 74 | 71 | 77 | 74 | 71 | 76 | 73 | 70 | 70 | 70 | 70 | 69 |
| 8 | 85 | 77 | 72 | 68 | 84 | 76 | 72 | 68 | 75 | 71 | 68 | 74 | 70 | 68 | 74 | 70 | 67 | 67 | 67 | 67 | 66 |
| 9 | 82 | 74 | 69 | 65 | 81 | 73 | 69 | 65 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 65 | 65 | 65 | 65 | 64 |
| 10 | 79 | 71 | 66 | 63 | 78 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 65 | 62 | 69 | 65 | 62 | 62 | 62 | 62 | 61 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 656719 | 656719 | 656719 |
| 5° | 594847 | 595954 | 596801 |
| 10° | 449090 | 450227 | 452501 |
| 15° | 291303 | 294477 | 300254 |
| 20° | 175376 | 177466 | 179830 |
| 25° | 102462 | 104610 | 106149 |
| 30° | 60216 | 62145 | 63120 |
| 35° | 37108 | 38475 | 39148 |
| 40° | 24393 | 25112 | 25472 |
| 45° | 16952 | 17341 | 17755 |
| 50° | 12593 | 13021 | 13450 |
| 55° | 10209 | 10689 | 10689 |
| 60° | 8921 | 8921 | 8921 |
| 65° | 7906 | 7906 | 7906 |
| 70° | 6546 | 7352 | 7352 |
| 75° | 6455 | 6455 | 6455 |
| 80° | 4860 | 6447 | 6447 |
| 85° | 3162 | 3162 | 3162 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 17755 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 300.4 | 23.8 |
| 10°-20° | 459.3 | 36.4 |
| 20°-30° | 261.0 | 20.7 |
| 30°-40° | 119.1 | 9.4 |
| 40°-50° | 57.1 | 4.5 |
| 50°-60° | 31.9 | 2.5 |
| 60°-70° | 19.5 | 1.5 |
| 70°-80° | 10.4 | 0.8 |
| 80°-90° | 2.2 | 0.2 |
| 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° | 1020.7 | 80.9 |
| 0°-40° | 1139.8 | 90.4 |
| 0°-60° | 1228.8 | 97.4 |
| 0°-90° | 1261.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1261.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3813 | 3813 | 3813 | 3813 | 3813 | |
| 5° | 3441 | 3439 | 3447 | 3447 | 3452 | 300 |
| 15° | 1634 | 1642 | 1652 | 1674 | 1684 | 453 |
| 25° | 539 | 539 | 550 | 555 | 559 | 256 |
| 35° | 176 | 180 | 183 | 186 | 186 | 116 |
| 45° | 70 | 70 | 71 | 73 | 73 | 55 |
| 55° | 34 | 34 | 36 | 36 | 36 | 31 |
| 65° | 19 | 19 | 19 | 19 | 19 | 19 |
| 75° | 10 | 10 | 10 | 10 | 10 | 10 |
| 85° | 2 | 2 | 2 | 2 | 2 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1320357
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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3813.2 | 3813.2 | 3813.2 | 3813.2 | 3813.2 |
| 1° | 3809.9 | 3800.2 | 3797.0 | 3795.4 | 3792.1 |
| 2° | 3761.4 | 3753.3 | 3751.7 | 3751.7 | 3750.0 |
| 3° | 3693.4 | 3678.8 | 3680.4 | 3675.6 | 3670.7 |
| 4° | 3578.4 | 3571.9 | 3575.2 | 3578.4 | 3571.9 |
| 5° | 3440.8 | 3439.1 | 3447.2 | 3447.2 | 3452.1 |
| 6° | 3298.3 | 3296.7 | 3291.8 | 3304.8 | 3311.2 |
| 7° | 3116.9 | 3126.6 | 3139.6 | 3133.1 | 3138.0 |
| 8° | 2951.8 | 2940.4 | 2945.3 | 2961.5 | 2963.1 |
| 9° | 2757.5 | 2749.4 | 2770.4 | 2776.9 | 2778.5 |
| 10° | 2568.0 | 2576.1 | 2574.5 | 2597.2 | 2587.5 |
| 12.5° | 2074.2 | 2087.1 | 2101.7 | 2111.4 | 2121.1 |
| 15° | 1633.8 | 1641.9 | 1651.6 | 1674.2 | 1684.0 |
| 17.5° | 1256.5 | 1266.2 | 1275.9 | 1295.3 | 1298.6 |
| 20° | 956.9 | 961.8 | 968.3 | 986.1 | 981.2 |
| 22.5° | 715.7 | 723.8 | 730.3 | 738.3 | 743.2 |
| 25° | 539.2 | 539.2 | 550.5 | 555.4 | 558.6 |
| 27.5° | 401.6 | 404.8 | 412.9 | 419.4 | 417.7 |
| 30° | 302.8 | 307.6 | 312.5 | 315.7 | 317.4 |
| 32.5° | 233.2 | 233.2 | 238.0 | 242.9 | 244.5 |
| 35° | 176.5 | 179.7 | 183.0 | 186.2 | 186.2 |
| 37.5° | 137.6 | 139.2 | 142.5 | 144.1 | 144.1 |
| 40° | 108.5 | 108.5 | 111.7 | 113.3 | 113.3 |
| 42.5° | 85.8 | 87.4 | 89.1 | 90.7 | 90.7 |
| 45° | 69.6 | 69.6 | 71.2 | 72.9 | 72.9 |
| 47.5° | 56.7 | 56.7 | 58.3 | 59.9 | 59.9 |
| 50° | 47.0 | 48.6 | 48.6 | 50.2 | 50.2 |
| 52.5° | 40.5 | 40.5 | 40.5 | 42.1 | 42.1 |
| 55° | 34.0 | 34.0 | 35.6 | 35.6 | 35.6 |
| 57.5° | 29.1 | 29.1 | 29.1 | 30.8 | 30.8 |
| 60° | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 |
| 62.5° | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 |
| 65° | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 |
| 67.5° | 16.2 | 16.2 | 16.2 | 17.8 | 17.8 |
| 70° | 13.0 | 14.6 | 14.6 | 14.6 | 14.6 |
| 72.5° | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 75° | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 |
| 77.5° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 80° | 4.9 | 6.5 | 6.5 | 6.5 | 6.5 |
| 82.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 85° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)