

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: P1319478

Luminaire Tested: LDSQA3D20R159835D010 3LSQPHR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R159835D010 3LSQPHR1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , 3LSQPHR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

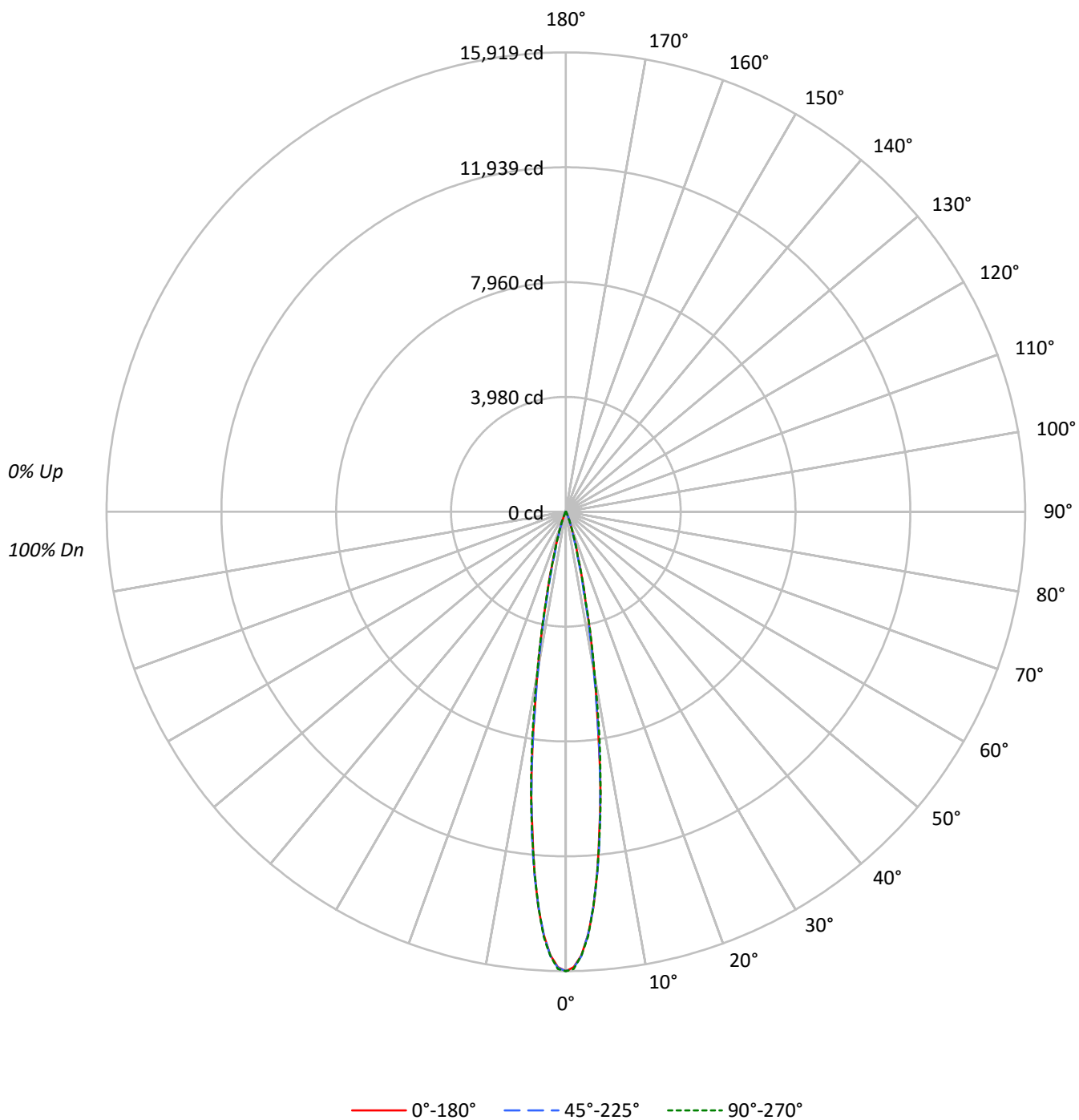
Lumens per Lamp: N/A  
Luminaire Lumens: 1594.0 lumens  
Efficiency: N/A  
Efficacy: 58.2 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.4  
Input Voltage (V): NR  
Input Current (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  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 |  | 104 | 104 | 103 |  | 101 |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 104 | 102 |  | 102 | 101 | 100 |  | 100 |
| 3   | 110 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 103 | 101 | 99  |  | 101 | 99  | 97  |  | 99  |
| 4   | 108 | 104 | 100 | 98  | 106 | 103 | 100 | 98  | 101 | 98  | 96  |  | 99  | 97  | 95  |  | 97  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 99  | 96  | 94  |  | 97  | 95  | 94  |  | 96  |
| 6   | 104 | 99  | 96  | 93  | 103 | 98  | 95  | 93  | 97  | 94  | 92  |  | 96  | 94  | 92  |  | 95  |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  |  | 94  | 92  | 90  |  | 94  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  |  | 93  | 91  | 89  |  | 92  |
| 9   | 98  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  |  | 92  | 89  | 88  |  | 91  |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 88  | 87  |  | 90  | 88  | 86  |  | 90  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 2741647 | 2741647 | 2741647 |
| 5°  | 2162614 | 2168406 | 2160695 |
| 10° | 989415  | 963481  | 1010314 |
| 15° | 294174  | 262633  | 288219  |
| 20° | 87367   | 84728   | 91748   |
| 25° | 24836   | 32115   | 28770   |
| 30° | 8869    | 9506    | 8551    |
| 35° | 3343    | 3007    | 3007    |
| 40° | 1439    | 719     | 1079    |
| 45° | 779     | 390     | 779     |
| 50° | 429     | 0       | 429     |
| 55° | 480     | 0       | 480     |
| 60° | 0       | 0       | 0       |
| 65° | 0       | 0       | 0       |
| 70° | 0       | 0       | 0       |
| 75° | 0       | 0       | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 816 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 961.8  | 60.3      |
| 10°-20°   | 534.0  | 33.5      |
| 20°-30°   | 85.0   | 5.3       |
| 30°-40°   | 11.1   | 0.7       |
| 40°-50°   | 1.7    | 0.1       |
| 50°-60°   | 0.4    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 1580.8 | 99.2      |
| 0°-40°    | 1592.0 | 99.9      |
| 0°-60°    | 1594.0 | 100.0     |
| 0°-90°    | 1594.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1594.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 15919 | 15919 | 15919 | 15919 | 15919 |      |
| 5°  | 12509 | 12614 | 12543 | 12490 | 12498 | 960  |
| 15° | 1650  | 1629  | 1473  | 1565  | 1616  | 544  |
| 25° | 131   | 147   | 169   | 168   | 151   | 80   |
| 35° | 16    | 16    | 14    | 16    | 14    | 12   |
| 45° | 3     | 2     | 2     | 2     | 3     | 3    |
| 55° | 2     | 0     | 0     | 0     | 2     | 1    |
| 65° | 0     | 0     | 0     | 0     | 0     | 0    |
| 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°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15919.2 | 15919.2 | 15919.2 | 15919.2 | 15919.2 | 15919.2 | 15919.2 | 15919.2 | 15919.2 | 15919.2 | 15919.2 |
| 1°    | 15782.1 | 15799.7 | 15822.0 | 15801.2 | 15782.1 | 15799.7 | 15775.7 | 15778.9 | 15759.8 | 15801.2 | 15847.5 |
| 2°    | 15380.4 | 15402.7 | 15390.0 | 15361.3 | 15405.9 | 15409.1 | 15359.7 | 15335.8 | 15332.6 | 15374.0 | 15390.0 |
| 3°    | 14669.4 | 14720.4 | 14722.0 | 14712.4 | 14698.1 | 14669.4 | 14618.4 | 14651.9 | 14605.6 | 14576.9 | 14739.5 |
| 4°    | 13724.1 | 13768.7 | 13821.3 | 13786.2 | 13681.0 | 13690.6 | 13724.1 | 13610.9 | 13617.3 | 13682.6 | 13687.4 |
| 5°    | 12509.3 | 12644.8 | 12651.2 | 12601.8 | 12518.9 | 12542.8 | 12518.9 | 12487.0 | 12498.2 | 12539.6 | 12498.2 |
| 6°    | 11079.4 | 11232.4 | 11119.2 | 11227.6 | 11203.7 | 11234.0 | 11242.0 | 11208.5 | 11232.4 | 11206.9 | 11198.9 |
| 7°    | 9843.9  | 9727.5  | 9743.5  | 9698.8  | 9746.7  | 9778.5  | 9797.7  | 9740.3  | 9786.5  | 9859.8  | 9880.6  |
| 8°    | 8311.9  | 8278.4  | 8245.0  | 8324.7  | 8302.4  | 8340.6  | 8364.5  | 8428.3  | 8425.1  | 8447.4  | 8520.7  |
| 9°    | 6853.3  | 6902.7  | 6933.0  | 6862.8  | 6923.4  | 6805.4  | 6846.9  | 7017.5  | 6972.8  | 7017.5  | 7148.2  |
| 10°   | 5657.7  | 5697.5  | 5652.9  | 5651.3  | 5587.5  | 5509.4  | 5504.6  | 5568.4  | 5702.3  | 5807.5  | 5777.2  |
| 12.5° | 3121.4  | 3156.4  | 3161.2  | 3158.0  | 3043.2  | 2914.1  | 2938.0  | 2989.0  | 3071.9  | 3107.0  | 3164.4  |
| 15°   | 1649.9  | 1648.4  | 1665.9  | 1616.5  | 1555.9  | 1473.0  | 1479.4  | 1549.5  | 1611.7  | 1627.6  | 1616.5  |
| 17.5° | 846.5   | 849.7   | 862.4   | 849.7   | 785.9   | 793.9   | 811.4   | 819.4   | 856.1   | 870.4   | 862.4   |
| 20°   | 476.7   | 478.2   | 476.7   | 481.4   | 455.9   | 462.3   | 484.6   | 486.2   | 494.2   | 502.2   | 500.6   |
| 22.5° | 272.6   | 274.2   | 283.8   | 280.6   | 274.2   | 282.2   | 286.9   | 294.9   | 298.1   | 294.9   | 304.5   |
| 25°   | 130.7   | 132.3   | 132.3   | 151.4   | 161.0   | 169.0   | 172.2   | 169.0   | 165.8   | 153.0   | 151.4   |
| 27.5° | 74.9    | 74.9    | 78.1    | 79.7    | 82.9    | 97.2    | 95.6    | 79.7    | 67.0    | 67.0    | 68.5    |
| 30°   | 44.6    | 43.0    | 43.0    | 44.6    | 46.2    | 47.8    | 44.6    | 43.0    | 43.0    | 44.6    | 43.0    |
| 32.5° | 27.1    | 27.1    | 27.1    | 25.5    | 25.5    | 23.9    | 23.9    | 27.1    | 27.1    | 27.1    | 27.1    |
| 35°   | 15.9    | 15.9    | 15.9    | 15.9    | 14.3    | 14.3    | 14.3    | 15.9    | 15.9    | 14.3    | 14.3    |
| 37.5° | 9.6     | 9.6     | 9.6     | 8.0     | 8.0     | 6.4     | 8.0     | 8.0     | 8.0     | 8.0     | 8.0     |
| 40°   | 6.4     | 6.4     | 4.8     | 4.8     | 3.2     | 3.2     | 3.2     | 4.8     | 4.8     | 4.8     | 4.8     |
| 42.5° | 4.8     | 4.8     | 3.2     | 3.2     | 1.6     | 1.6     | 1.6     | 3.2     | 3.2     | 3.2     | 3.2     |
| 45°   | 3.2     | 3.2     | 3.2     | 1.6     | 1.6     | 1.6     | 1.6     | 1.6     | 1.6     | 3.2     | 3.2     |
| 47.5° | 3.2     | 3.2     | 1.6     | 1.6     | 0.0     | 0.0     | 0.0     | 1.6     | 1.6     | 1.6     | 1.6     |
| 50°   | 1.6     | 1.6     | 1.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.6     | 1.6     | 1.6     |
| 52.5° | 1.6     | 1.6     | 1.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.6     | 1.6     | 1.6     |
| 55°   | 1.6     | 1.6     | 1.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.6     | 1.6     |
| 57.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 60°   | 0.0     | 1.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 62.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 65°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 67.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 70°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 72.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 75°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 77.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 80°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)