

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: P1311738

Luminaire Tested: LDSQA3D20R159040D010 3LSQPHR1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311738  
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: LDSQA3D20R159040D010 3LSQPHR1MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , 3LSQPHR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

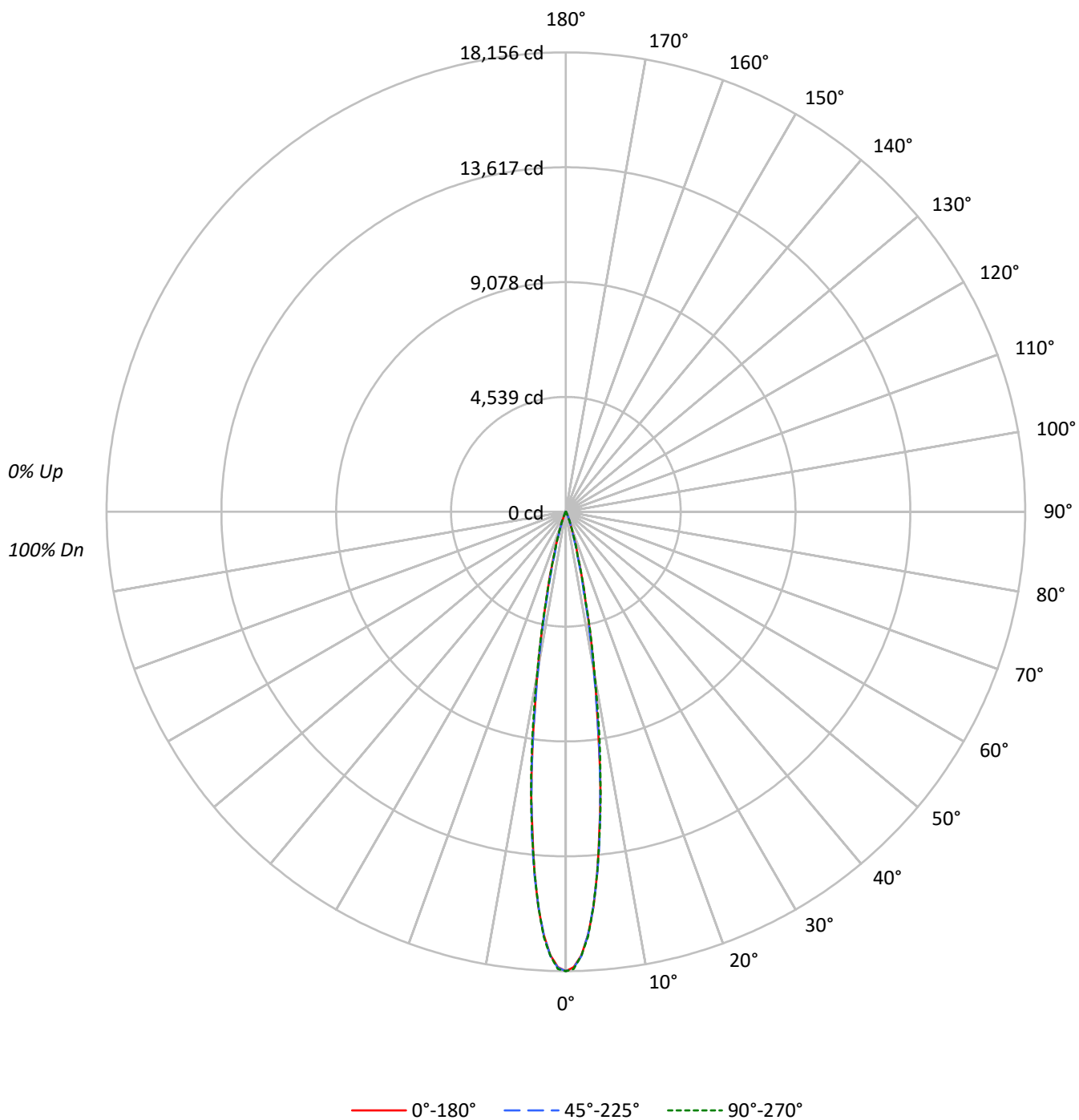
Lumens per Lamp: N/A  
Luminaire Lumens: 1818.0 lumens  
Efficiency: N/A  
Efficacy: 63.1 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 104 | 103 | 101 | 100 | 100 | 100 | 100 | 98  |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 104 | 102 | 102 | 101 | 100 | 100 | 99  | 98  | 98  | 98  | 97  |
| 3   | 110 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 103 | 101 | 99  | 101 | 99  | 97  | 99  | 97  | 96  | 96  | 96  | 95  |
| 4   | 108 | 104 | 100 | 98  | 106 | 103 | 100 | 98  | 101 | 98  | 96  | 99  | 97  | 95  | 97  | 96  | 94  | 94  | 94  | 93  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 99  | 96  | 94  | 97  | 95  | 94  | 96  | 94  | 93  | 93  | 93  | 92  |
| 6   | 104 | 99  | 96  | 93  | 103 | 98  | 95  | 93  | 97  | 94  | 92  | 96  | 94  | 92  | 95  | 93  | 91  | 91  | 91  | 91  |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  | 94  | 92  | 90  | 94  | 92  | 90  | 90  | 90  | 89  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  | 93  | 91  | 89  | 92  | 90  | 89  | 89  | 89  | 88  |
| 9   | 98  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  | 92  | 89  | 88  | 91  | 89  | 87  | 87  | 87  | 87  |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 88  | 87  | 90  | 88  | 86  | 90  | 88  | 86  | 86  | 86  | 86  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 3126926 | 3126926 | 3126926 |
| 5°  | 2466521 | 2473125 | 2464325 |
| 10° | 1128445 | 1098873 | 1152298 |
| 15° | 335521  | 299541  | 328710  |
| 20° | 99629   | 96641   | 104632  |
| 25° | 28333   | 36618   | 32818   |
| 30° | 10122   | 10838   | 9764    |
| 35° | 3826    | 3448    | 3448    |
| 40° | 1641    | 809     | 1237    |
| 45° | 877     | 438     | 877     |
| 50° | 482     | 0       | 482     |
| 55° | 540     | 0       | 540     |
| 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: 918 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1097.0 | 60.3      |
| 10°-20°   | 609.0  | 33.5      |
| 20°-30°   | 96.9   | 5.3       |
| 30°-40°   | 12.7   | 0.7       |
| 40°-50°   | 1.9    | 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       |
| 0°-30°    | 1803.0 | 99.2      |
| 0°-40°    | 1815.7 | 99.9      |
| 0°-60°    | 1818.0 | 100.0     |
| 0°-90°    | 1818.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1818.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 18156 | 18156 | 18156 | 18156 | 18156 |      |
| 5°  | 14267 | 14387 | 14305 | 14245 | 14254 | 1094 |
| 15° | 1882  | 1858  | 1680  | 1785  | 1844  | 621  |
| 25° | 149   | 167   | 193   | 192   | 173   | 91   |
| 35° | 18    | 18    | 16    | 18    | 16    | 13   |
| 45° | 4     | 2     | 2     | 2     | 4     | 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°    | 18156.3 | 18156.3 | 18156.3 | 18156.3 | 18156.3 | 18156.3 | 18156.3 | 18156.3 | 18156.3 | 18156.3 | 18156.3 |
| 1°    | 17999.9 | 18019.9 | 18045.4 | 18021.7 | 17999.9 | 18019.9 | 17992.7 | 17996.3 | 17974.5 | 18021.7 | 18074.5 |
| 2°    | 17541.8 | 17567.2 | 17552.7 | 17519.9 | 17570.8 | 17574.5 | 17518.1 | 17490.8 | 17487.2 | 17534.5 | 17552.7 |
| 3°    | 16730.8 | 16789.0 | 16790.8 | 16779.9 | 16763.6 | 16730.8 | 16672.7 | 16710.8 | 16658.1 | 16625.4 | 16810.8 |
| 4°    | 15652.7 | 15703.6 | 15763.6 | 15723.6 | 15603.6 | 15614.5 | 15652.7 | 15523.6 | 15530.8 | 15605.4 | 15610.8 |
| 5°    | 14267.2 | 14421.8 | 14429.0 | 14372.7 | 14278.1 | 14305.4 | 14278.1 | 14241.8 | 14254.5 | 14301.8 | 14254.5 |
| 6°    | 12636.3 | 12810.9 | 12681.8 | 12805.4 | 12778.1 | 12812.7 | 12821.8 | 12783.6 | 12810.9 | 12781.8 | 12772.7 |
| 7°    | 11227.2 | 11094.5 | 11112.7 | 11061.8 | 11116.3 | 11152.7 | 11174.5 | 11109.0 | 11161.8 | 11245.4 | 11269.0 |
| 8°    | 9480.0  | 9441.8  | 9403.6  | 9494.5  | 9469.1  | 9512.7  | 9540.0  | 9612.7  | 9609.1  | 9634.5  | 9718.1  |
| 9°    | 7816.3  | 7872.7  | 7907.2  | 7827.2  | 7896.3  | 7761.8  | 7809.1  | 8003.6  | 7952.7  | 8003.6  | 8152.7  |
| 10°   | 6452.7  | 6498.2  | 6447.2  | 6445.4  | 6372.7  | 6283.6  | 6278.2  | 6350.9  | 6503.6  | 6623.6  | 6589.1  |
| 12.5° | 3560.0  | 3600.0  | 3605.4  | 3601.8  | 3470.9  | 3323.6  | 3350.9  | 3409.1  | 3503.6  | 3543.6  | 3609.1  |
| 15°   | 1881.8  | 1880.0  | 1900.0  | 1843.6  | 1774.5  | 1680.0  | 1687.3  | 1767.3  | 1838.2  | 1856.4  | 1843.6  |
| 17.5° | 965.5   | 969.1   | 983.6   | 969.1   | 896.4   | 905.5   | 925.5   | 934.5   | 976.4   | 992.7   | 983.6   |
| 20°   | 543.6   | 545.5   | 543.6   | 549.1   | 520.0   | 527.3   | 552.7   | 554.5   | 563.6   | 572.7   | 570.9   |
| 22.5° | 310.9   | 312.7   | 323.6   | 320.0   | 312.7   | 321.8   | 327.3   | 336.4   | 340.0   | 336.4   | 347.3   |
| 25°   | 149.1   | 150.9   | 150.9   | 172.7   | 183.6   | 192.7   | 196.4   | 192.7   | 189.1   | 174.5   | 172.7   |
| 27.5° | 85.5    | 85.5    | 89.1    | 90.9    | 94.5    | 110.9   | 109.1   | 90.9    | 76.4    | 76.4    | 78.2    |
| 30°   | 50.9    | 49.1    | 49.1    | 50.9    | 52.7    | 54.5    | 50.9    | 49.1    | 49.1    | 50.9    | 49.1    |
| 32.5° | 30.9    | 30.9    | 30.9    | 29.1    | 29.1    | 27.3    | 27.3    | 30.9    | 30.9    | 30.9    | 30.9    |
| 35°   | 18.2    | 18.2    | 18.2    | 18.2    | 16.4    | 16.4    | 16.4    | 18.2    | 18.2    | 16.4    | 16.4    |
| 37.5° | 10.9    | 10.9    | 10.9    | 9.1     | 9.1     | 7.3     | 9.1     | 9.1     | 9.1     | 9.1     | 9.1     |
| 40°   | 7.3     | 7.3     | 5.5     | 5.5     | 3.6     | 3.6     | 3.6     | 5.5     | 5.5     | 5.5     | 5.5     |
| 42.5° | 5.5     | 5.5     | 3.6     | 3.6     | 1.8     | 1.8     | 1.8     | 3.6     | 3.6     | 3.6     | 3.6     |
| 45°   | 3.6     | 3.6     | 3.6     | 1.8     | 1.8     | 1.8     | 1.8     | 1.8     | 1.8     | 3.6     | 3.6     |
| 47.5° | 3.6     | 3.6     | 1.8     | 1.8     | 0.0     | 0.0     | 0.0     | 1.8     | 1.8     | 1.8     | 1.8     |
| 50°   | 1.8     | 1.8     | 1.8     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.8     | 1.8     | 1.8     |
| 52.5° | 1.8     | 1.8     | 1.8     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.8     | 1.8     | 1.8     |
| 55°   | 1.8     | 1.8     | 1.8     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.8     | 1.8     |
| 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     | 1.8     | 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)