

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: P1327495

Luminaire Tested: LDSQA3D13R15W2N902765DE010 3LSQPHR1MMS\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327495  
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: LDSQA3D13R15W2N902765DE010 3LSQPHR1MMS\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 4000K CCT AND, 90CRI ,  
3LSQPHR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

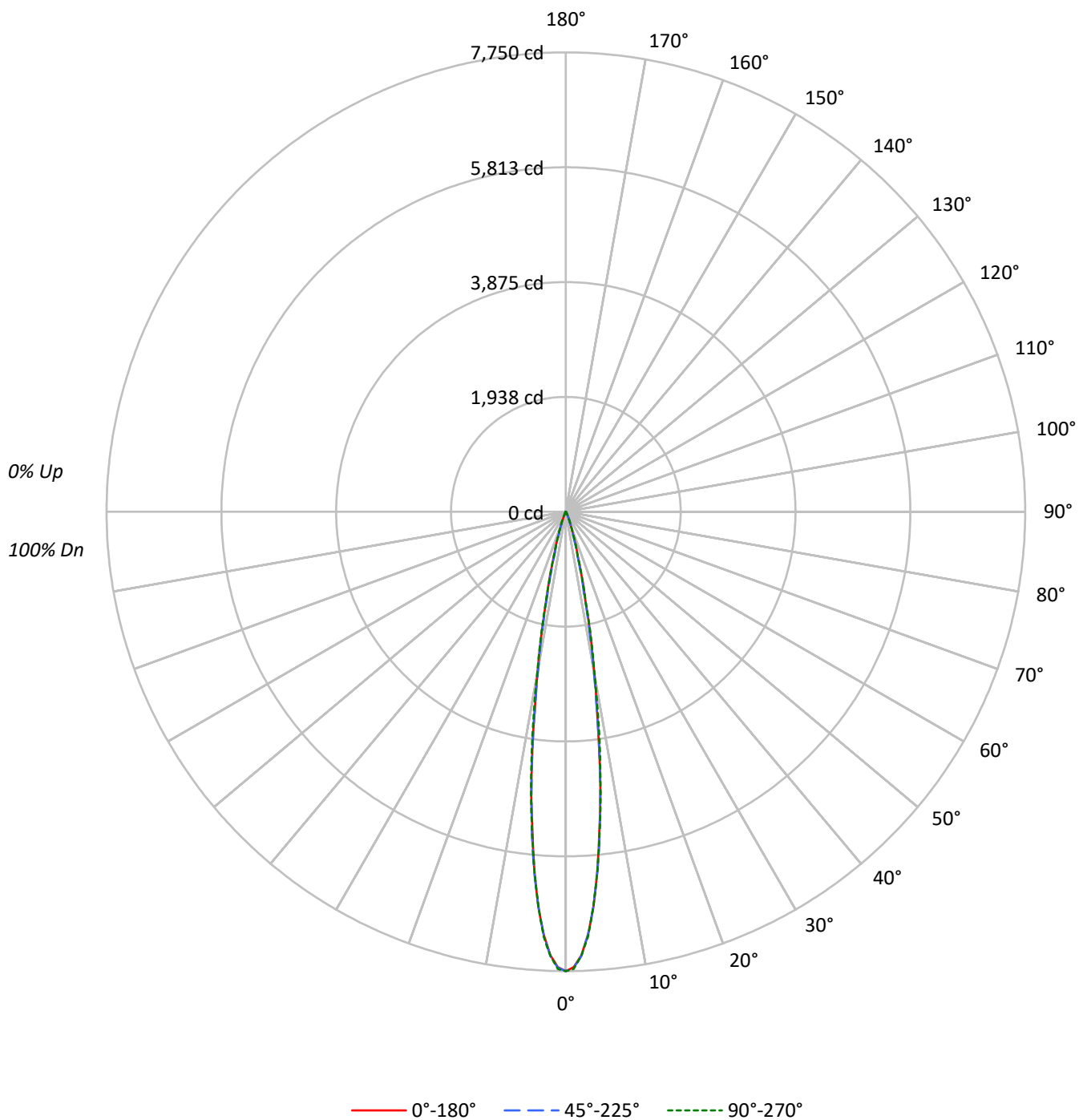
Lumens per Lamp: N/A  
Luminaire Lumens: 776.0 lumens  
Efficiency: N/A  
Efficacy: 63.1 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.3  
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 | 103 | 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°  | 1334708 | 1334708 | 1334708 |
| 5°  | 1052825 | 1055643 | 1051874 |
| 10° | 481670  | 469044  | 491848  |
| 15° | 143209  | 127857  | 140303  |
| 20° | 42520   | 41255   | 44664   |
| 25° | 12086   | 15639   | 14005   |
| 30° | 4315    | 4634    | 4176    |
| 35° | 1640    | 1472    | 1472    |
| 40° | 697     | 360     | 517     |
| 45° | 390     | 195     | 390     |
| 50° | 214     | 0       | 214     |
| 55° | 240     | 0       | 240     |
| 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: 408 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 468.2  | 60.3      |
| 10°-20°   | 260.0  | 33.5      |
| 20°-30°   | 41.4   | 5.3       |
| 30°-40°   | 5.4    | 0.7       |
| 40°-50°   | 0.8    | 0.1       |
| 50°-60°   | 0.2    | 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°    | 769.6  | 99.2      |
| 0°-40°    | 775.0  | 99.9      |
| 0°-60°    | 776.0  | 100.0     |
| 0°-90°    | 776.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 776.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 7750 | 7750  | 7750 | 7750  | 7750 |      |
| 5°  | 6090 | 6141  | 6106 | 6080  | 6084 | 467  |
| 15° | 803  | 793   | 717  | 762   | 787  | 265  |
| 25° | 64   | 71    | 82   | 82    | 74   | 39   |
| 35° | 8    | 8     | 7    | 8     | 7    | 6    |
| 45° | 2    | 1     | 1    | 1     | 2    | 1    |
| 55° | 1    | 0     | 0    | 0     | 1    | 0    |
| 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    | 0    |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7749.9 | 7749.9 | 7749.9 | 7749.9 | 7749.9 | 7749.9 | 7749.9 | 7749.9 | 7749.9 | 7749.9 | 7749.9 |
| 1°    | 7683.1 | 7691.7 | 7702.5 | 7692.5 | 7683.1 | 7691.7 | 7680.0 | 7681.6 | 7672.3 | 7692.5 | 7715.0 |
| 2°    | 7487.6 | 7498.4 | 7492.2 | 7478.3 | 7500.0 | 7501.5 | 7477.5 | 7465.8 | 7464.3 | 7484.5 | 7492.2 |
| 3°    | 7141.4 | 7166.3 | 7167.0 | 7162.4 | 7155.4 | 7141.4 | 7116.6 | 7132.9 | 7110.4 | 7096.4 | 7175.6 |
| 4°    | 6681.2 | 6703.0 | 6728.6 | 6711.5 | 6660.3 | 6664.9 | 6681.2 | 6626.1 | 6629.2 | 6661.0 | 6663.4 |
| 5°    | 6089.9 | 6155.8 | 6158.9 | 6134.9 | 6094.5 | 6106.2 | 6094.5 | 6079.0 | 6084.4 | 6104.6 | 6084.4 |
| 6°    | 5393.7 | 5468.2 | 5413.1 | 5465.9 | 5454.3 | 5469.0 | 5472.9 | 5456.6 | 5468.2 | 5455.8 | 5451.9 |
| 7°    | 4792.3 | 4735.6 | 4743.4 | 4721.6 | 4744.9 | 4760.4 | 4769.8 | 4741.8 | 4764.3 | 4800.0 | 4810.1 |
| 8°    | 4046.5 | 4030.2 | 4013.9 | 4052.7 | 4041.8 | 4060.4 | 4072.1 | 4103.1 | 4101.6 | 4112.4 | 4148.1 |
| 9°    | 3336.3 | 3360.4 | 3375.1 | 3341.0 | 3370.5 | 3313.1 | 3333.2 | 3416.3 | 3394.6 | 3416.3 | 3479.9 |
| 10°   | 2754.3 | 2773.7 | 2752.0 | 2751.2 | 2720.1 | 2682.1 | 2679.8 | 2710.8 | 2776.0 | 2827.2 | 2812.5 |
| 12.5° | 1519.6 | 1536.6 | 1539.0 | 1537.4 | 1481.5 | 1418.7 | 1430.3 | 1455.1 | 1495.5 | 1512.6 | 1540.5 |
| 15°   | 803.2  | 802.5  | 811.0  | 786.9  | 757.4  | 717.1  | 720.2  | 754.3  | 784.6  | 792.4  | 786.9  |
| 17.5° | 412.1  | 413.6  | 419.9  | 413.6  | 382.6  | 386.5  | 395.0  | 398.9  | 416.8  | 423.7  | 419.9  |
| 20°   | 232.0  | 232.8  | 232.0  | 234.4  | 222.0  | 225.1  | 235.9  | 236.7  | 240.6  | 244.5  | 243.7  |
| 22.5° | 132.7  | 133.5  | 138.1  | 136.6  | 133.5  | 137.4  | 139.7  | 143.6  | 145.1  | 143.6  | 148.2  |
| 25°   | 63.6   | 64.4   | 64.4   | 73.7   | 78.4   | 82.3   | 83.8   | 82.3   | 80.7   | 74.5   | 73.7   |
| 27.5° | 36.5   | 36.5   | 38.0   | 38.8   | 40.4   | 47.3   | 46.6   | 38.8   | 32.6   | 32.6   | 33.4   |
| 30°   | 21.7   | 21.0   | 21.0   | 21.7   | 22.5   | 23.3   | 21.7   | 21.0   | 21.0   | 21.7   | 21.0   |
| 32.5° | 13.2   | 13.2   | 13.2   | 12.4   | 12.4   | 11.6   | 11.6   | 13.2   | 13.2   | 13.2   | 13.2   |
| 35°   | 7.8    | 7.8    | 7.8    | 7.8    | 7.0    | 7.0    | 7.0    | 7.8    | 7.8    | 7.0    | 7.0    |
| 37.5° | 4.7    | 4.7    | 4.7    | 3.9    | 3.9    | 3.1    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 40°   | 3.1    | 3.1    | 2.3    | 2.3    | 1.6    | 1.6    | 1.6    | 2.3    | 2.3    | 2.3    | 2.3    |
| 42.5° | 2.3    | 2.3    | 1.6    | 1.6    | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    | 1.6    | 1.6    |
| 45°   | 1.6    | 1.6    | 1.6    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    |
| 47.5° | 1.6    | 1.6    | 0.8    | 0.8    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    |
| 50°   | 0.8    | 0.8    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    |
| 52.5° | 0.8    | 0.8    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    |
| 55°   | 0.8    | 0.8    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    |
| 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    | 0.8    | 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)