

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: P1312819

Luminaire Tested: LDSQA3D20R159050D010 3LSQPHRL1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312819  
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: LDSQA3D20R159050D010 3LSQPHRL1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , 3LSQPHRL1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

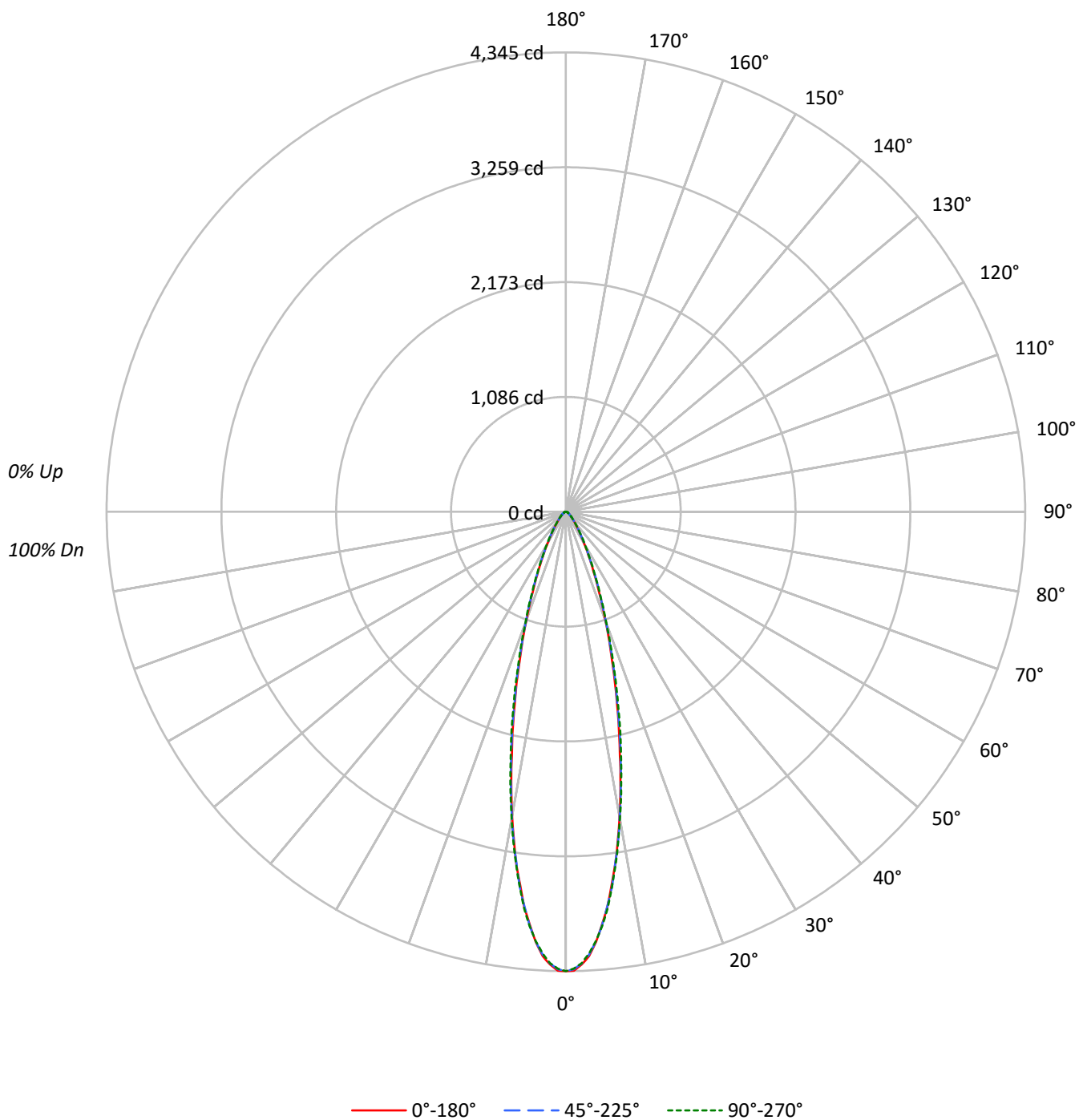
Lumens per Lamp: N/A  
Luminaire Lumens: 1437.0 lumens  
Efficiency: N/A  
Efficacy: 49.9 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.46 / 0.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 748376 | 748376 | 748376 |
| 5°  | 677864 | 679144 | 680095 |
| 10° | 511785 | 513061 | 515650 |
| 15° | 331955 | 335575 | 342154 |
| 20° | 199862 | 202226 | 204939 |
| 25° | 116752 | 119223 | 120971 |
| 30° | 68609  | 70816  | 71930  |
| 35° | 42280  | 43836  | 44614  |
| 40° | 27788  | 28620  | 29047  |
| 45° | 19314  | 19777  | 20215  |
| 50° | 14334  | 14843  | 15326  |
| 55° | 11620  | 12191  | 12191  |
| 60° | 10161  | 10161  | 10161  |
| 65° | 9006   | 9006   | 9006   |
| 70° | 7452   | 8359   | 8359   |
| 75° | 7386   | 7386   | 7386   |
| 80° | 5455   | 7339   | 7339   |
| 85° | 3557   | 3557   | 3557   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 20215 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 342.3  | 23.8      |
| 10°-20°   | 523.4  | 36.4      |
| 20°-30°   | 297.5  | 20.7      |
| 30°-40°   | 135.7  | 9.4       |
| 40°-50°   | 65.1   | 4.5       |
| 50°-60°   | 36.4   | 2.5       |
| 60°-70°   | 22.3   | 1.5       |
| 70°-80°   | 11.9   | 0.8       |
| 80°-90°   | 2.5    | 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°    | 1163.1 | 80.9      |
| 0°-40°    | 1298.8 | 90.4      |
| 0°-60°    | 1400.3 | 97.4      |
| 0°-90°    | 1437.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1437.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4345 | 4345  | 4345 | 4345  | 4345 |      |
| 5°  | 3921 | 3919  | 3928 | 3928  | 3934 | 342  |
| 15° | 1862 | 1871  | 1882 | 1908  | 1919 | 517  |
| 25° | 614  | 614   | 627  | 633   | 637  | 292  |
| 35° | 201  | 205   | 208  | 212   | 212  | 132  |
| 45° | 79   | 79    | 81   | 83    | 83   | 63   |
| 55° | 39   | 39    | 41   | 41    | 41   | 36   |
| 65° | 22   | 22    | 22   | 22    | 22   | 22   |
| 75° | 11   | 11    | 11   | 11    | 11   | 11   |
| 85° | 2    | 2     | 2    | 2     | 2    | 2    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4345.4 | 4345.4 | 4345.4 | 4345.4 | 4345.4 |
| 1°    | 4341.7 | 4330.6 | 4326.9 | 4325.1 | 4321.4 |
| 2°    | 4286.3 | 4277.1 | 4275.3 | 4275.3 | 4273.4 |
| 3°    | 4208.9 | 4192.2 | 4194.1 | 4188.6 | 4183.0 |
| 4°    | 4077.8 | 4070.5 | 4074.2 | 4077.8 | 4070.5 |
| 5°    | 3921.0 | 3919.2 | 3928.4 | 3928.4 | 3933.9 |
| 6°    | 3758.6 | 3756.8 | 3751.2 | 3766.0 | 3773.4 |
| 7°    | 3552.0 | 3563.0 | 3577.8 | 3570.4 | 3576.0 |
| 8°    | 3363.8 | 3350.8 | 3356.4 | 3374.8 | 3376.7 |
| 9°    | 3142.3 | 3133.1 | 3157.1 | 3164.5 | 3166.3 |
| 10°   | 2926.5 | 2935.7 | 2933.8 | 2959.7 | 2948.6 |
| 12.5° | 2363.7 | 2378.4 | 2395.0 | 2406.1 | 2417.2 |
| 15°   | 1861.8 | 1871.0 | 1882.1 | 1907.9 | 1919.0 |
| 17.5° | 1431.9 | 1442.9 | 1454.0 | 1476.1 | 1479.8 |
| 20°   | 1090.5 | 1096.0 | 1103.4 | 1123.7 | 1118.2 |
| 22.5° | 815.6  | 824.8  | 832.2  | 841.4  | 846.9  |
| 25°   | 614.4  | 614.4  | 627.4  | 632.9  | 636.6  |
| 27.5° | 457.6  | 461.3  | 470.5  | 477.9  | 476.1  |
| 30°   | 345.0  | 350.6  | 356.1  | 359.8  | 361.7  |
| 32.5° | 265.7  | 265.7  | 271.2  | 276.8  | 278.6  |
| 35°   | 201.1  | 204.8  | 208.5  | 212.2  | 212.2  |
| 37.5° | 156.8  | 158.7  | 162.4  | 164.2  | 164.2  |
| 40°   | 123.6  | 123.6  | 127.3  | 129.2  | 129.2  |
| 42.5° | 97.8   | 99.6   | 101.5  | 103.3  | 103.3  |
| 45°   | 79.3   | 79.3   | 81.2   | 83.0   | 83.0   |
| 47.5° | 64.6   | 64.6   | 66.4   | 68.3   | 68.3   |
| 50°   | 53.5   | 55.4   | 55.4   | 57.2   | 57.2   |
| 52.5° | 46.1   | 46.1   | 46.1   | 48.0   | 48.0   |
| 55°   | 38.7   | 38.7   | 40.6   | 40.6   | 40.6   |
| 57.5° | 33.2   | 33.2   | 33.2   | 35.1   | 35.1   |
| 60°   | 29.5   | 29.5   | 29.5   | 29.5   | 29.5   |
| 62.5° | 25.8   | 25.8   | 25.8   | 25.8   | 25.8   |
| 65°   | 22.1   | 22.1   | 22.1   | 22.1   | 22.1   |
| 67.5° | 18.5   | 18.5   | 18.5   | 20.3   | 20.3   |
| 70°   | 14.8   | 16.6   | 16.6   | 16.6   | 16.6   |
| 72.5° | 12.9   | 12.9   | 12.9   | 12.9   | 12.9   |
| 75°   | 11.1   | 11.1   | 11.1   | 11.1   | 11.1   |
| 77.5° | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    |
| 80°   | 5.5    | 7.4    | 7.4    | 7.4    | 7.4    |
| 82.5° | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 85°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)