

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: P1307492

Luminaire Tested: LDSQA3D20R409024D010 3LSQCDR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R409024D010 3LSQCDR1MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , 3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

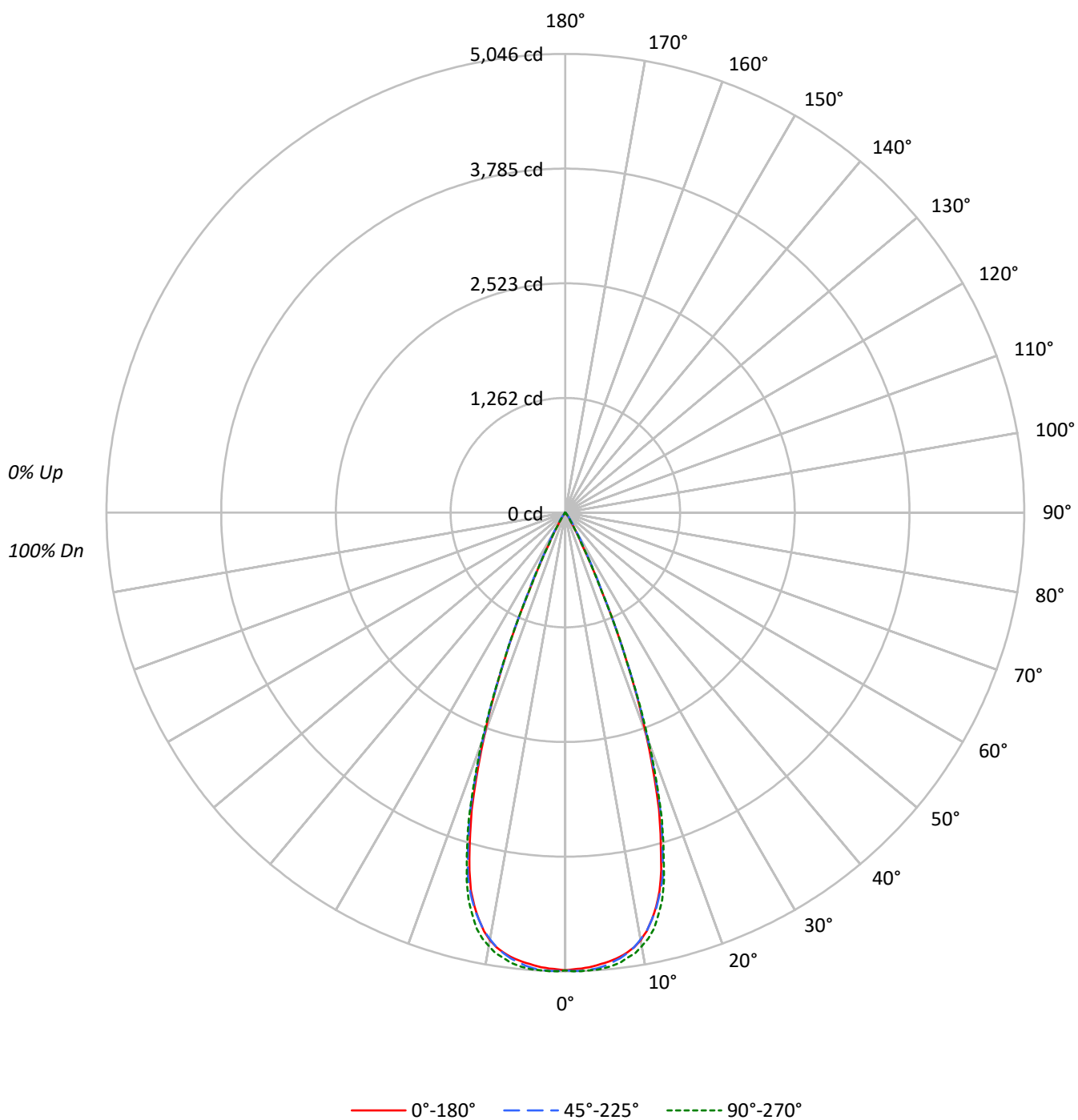
Lumens per Lamp: N/A  
Luminaire Lumens: 2117.0 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.69 / 0.6  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |     |     |     | 0   |
| 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   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 98  | 98  | 96  |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  | 94  | 94  | 92  |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 90  | 90  | 89  |
| 4   | 103 | 97  | 93  | 90  | 102 | 96  | 92  | 89  | 94  | 91  | 88  | 92  | 90  | 87  | 91  | 88  | 87  | 87  | 87  | 85  |
| 5   | 100 | 93  | 89  | 86  | 98  | 93  | 88  | 85  | 91  | 87  | 85  | 89  | 86  | 84  | 88  | 85  | 83  | 83  | 83  | 82  |
| 6   | 96  | 90  | 85  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 81  | 86  | 83  | 81  | 85  | 82  | 80  | 80  | 80  | 79  |
| 7   | 93  | 86  | 82  | 79  | 92  | 86  | 81  | 78  | 85  | 81  | 78  | 83  | 80  | 78  | 82  | 80  | 77  | 77  | 77  | 76  |
| 8   | 90  | 83  | 79  | 76  | 89  | 83  | 78  | 75  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 75  | 75  | 75  | 73  |
| 9   | 87  | 80  | 76  | 73  | 86  | 80  | 75  | 73  | 79  | 75  | 72  | 78  | 75  | 72  | 77  | 74  | 72  | 72  | 72  | 71  |
| 10  | 85  | 77  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  | 76  | 72  | 70  | 75  | 72  | 70  | 70  | 70  | 69  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 867020 | 867020 | 867020 |
| 5°  | 859510 | 864921 | 869036 |
| 10° | 835032 | 833458 | 846504 |
| 15° | 726422 | 738118 | 747158 |
| 20° | 476773 | 486065 | 492333 |
| 25° | 169979 | 179879 | 169124 |
| 30° | 37049  | 50094  | 37347  |
| 35° | 11900  | 20688  | 11606  |
| 40° | 3687   | 6362   | 3350   |
| 45° | 365    | 2168   | 365    |
| 50° | 0      | 402    | 0      |
| 55° | 0      | 0      | 0      |
| 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: 45°

Vertical Angle: 45°

Luminance: 2168 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 470.8  | 22.2      |
| 10°-20°   | 1096.4 | 51.8      |
| 20°-30°   | 491.7  | 23.2      |
| 30°-40°   | 53.1   | 2.5       |
| 40°-50°   | 4.9    | 0.2       |
| 50°-60°   | 0.0    | 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°    | 2058.9 | 97.3      |
| 0°-40°    | 2112.0 | 99.8      |
| 0°-60°    | 2117.0 | 100.0     |
| 0°-90°    | 2117.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2117.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5034 | 5034  | 5034 | 5034  | 5034 |      |
| 5°  | 4972 | 4985  | 5003 | 5010  | 5027 | 469  |
| 15° | 4074 | 4104  | 4140 | 4164  | 4190 | 1083 |
| 25° | 894  | 921   | 947  | 963   | 890  | 477  |
| 35° | 57   | 66    | 98   | 64    | 55   | 44   |
| 45° | 2    | 3     | 9    | 3     | 2    | 3    |
| 55° | 0    | 0     | 0    | 0     | 0    | 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    |      |

TEST NUMBER: P1307492

CATALOG NUMBER: LDSQA3D20R409024D010 3LSQCDR1MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5034.3 | 5034.3 | 5034.3 | 5034.3 | 5034.3 |
| 1°    | 5023.8 | 5034.3 | 5043.2 | 5035.8 | 5046.2 |
| 2°    | 5019.4 | 5031.3 | 5044.7 | 5037.3 | 5046.2 |
| 3°    | 5007.4 | 5022.4 | 5037.3 | 5032.8 | 5041.7 |
| 4°    | 4991.1 | 5003.0 | 5025.3 | 5025.3 | 5038.8 |
| 5°    | 4971.7 | 4985.1 | 5003.0 | 5010.4 | 5026.8 |
| 6°    | 4950.8 | 4958.3 | 4971.7 | 4986.6 | 5008.9 |
| 7°    | 4924.0 | 4924.0 | 4940.4 | 4955.3 | 4985.1 |
| 8°    | 4886.7 | 4883.7 | 4895.6 | 4915.0 | 4941.9 |
| 9°    | 4840.5 | 4830.0 | 4839.0 | 4867.3 | 4907.6 |
| 10°   | 4774.9 | 4765.9 | 4765.9 | 4801.7 | 4840.5 |
| 11°   | 4689.9 | 4686.9 | 4688.4 | 4722.7 | 4774.9 |
| 12°   | 4575.1 | 4578.1 | 4578.1 | 4616.9 | 4681.0 |
| 13°   | 4445.4 | 4443.9 | 4457.4 | 4500.6 | 4543.8 |
| 14°   | 4287.4 | 4296.4 | 4309.8 | 4348.5 | 4393.3 |
| 15°   | 4074.2 | 4104.1 | 4139.8 | 4163.7 | 4190.5 |
| 17.5° | 3425.8 | 3455.6 | 3504.8 | 3524.1 | 3530.1 |
| 20°   | 2601.4 | 2644.6 | 2652.1 | 2690.8 | 2686.3 |
| 22.5° | 1744.2 | 1741.2 | 1747.2 | 1751.6 | 1753.1 |
| 25°   | 894.5  | 921.3  | 946.6  | 963.0  | 890.0  |
| 27.5° | 389.1  | 435.3  | 468.1  | 424.9  | 393.6  |
| 30°   | 186.3  | 211.7  | 251.9  | 213.2  | 187.8  |
| 32.5° | 101.4  | 117.8  | 159.5  | 116.3  | 99.9   |
| 35°   | 56.6   | 65.6   | 98.4   | 64.1   | 55.2   |
| 37.5° | 32.8   | 35.8   | 53.7   | 35.8   | 31.3   |
| 40°   | 16.4   | 20.9   | 28.3   | 20.9   | 14.9   |
| 42.5° | 6.0    | 10.4   | 14.9   | 10.4   | 6.0    |
| 45°   | 1.5    | 3.0    | 8.9    | 3.0    | 1.5    |
| 47.5° | 0.0    | 0.0    | 4.5    | 0.0    | 0.0    |
| 50°   | 0.0    | 0.0    | 1.5    | 0.0    | 0.0    |
| 52.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CANDELA DISTRIBUTION (continued):

|     | 0°  | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

(END OF REPORT)