

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: P1179665

Luminaire Tested: LDA2B208030R2040D010 2LBD1GPH

Issue Date: 1/17/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1179665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/17/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDA2B208030R2040D010 2LBD1GPH  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

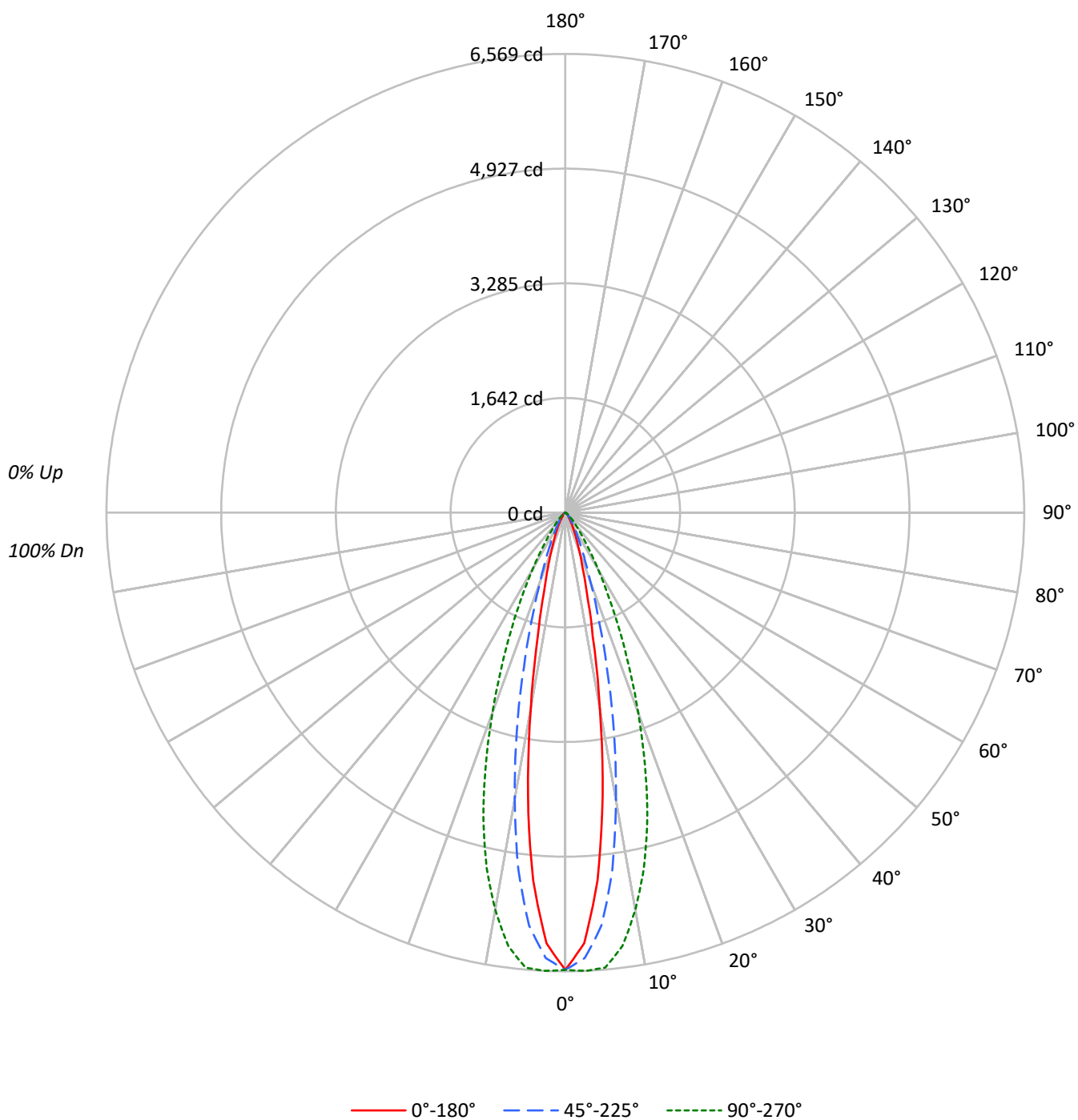
Lumens per Lamp: N/A  
Luminaire Lumens: 1845.2 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.6  
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   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 97  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 92  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  | 94  | 92  | 89  | 92  | 90  | 88  | 88  | 88  | 87  |
| 4   | 102 | 95  | 91  | 88  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 89  | 86  | 84  | 84  | 84  | 83  |
| 5   | 98  | 91  | 86  | 83  | 97  | 90  | 86  | 83  | 89  | 85  | 82  | 87  | 84  | 81  | 86  | 83  | 81  | 81  | 81  | 79  |
| 6   | 94  | 87  | 83  | 79  | 93  | 87  | 82  | 79  | 85  | 81  | 78  | 84  | 80  | 78  | 83  | 80  | 77  | 77  | 77  | 76  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 75  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 74  | 74  | 74  | 73  |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 72  | 79  | 75  | 72  | 78  | 75  | 72  | 77  | 74  | 72  | 72  | 72  | 70  |
| 9   | 85  | 78  | 73  | 70  | 84  | 77  | 73  | 70  | 76  | 72  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 69  | 69  | 68  |
| 10  | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 70  | 67  | 73  | 69  | 67  | 67  | 67  | 66  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 3229990 | 3229990 | 3229990 |
| 5°  | 2618120 | 2940575 | 3238366 |
| 10° | 1423464 | 2087804 | 2891815 |
| 15° | 602091  | 1171594 | 2314739 |
| 20° | 307349  | 550908  | 1600538 |
| 25° | 170168  | 281818  | 975501  |
| 30° | 95308   | 156549  | 532029  |
| 35° | 55169   | 94739   | 271028  |
| 40° | 41025   | 71810   | 150061  |
| 45° | 36142   | 48631   | 88889   |
| 50° | 38223   | 32083   | 47357   |
| 55° | 27439   | 22278   | 25718   |
| 60° | 17662   | 15689   | 15689   |
| 65° | 13892   | 13892   | 13892   |
| 70° | 11540   | 11540   | 11540   |
| 75° | 11437   | 11437   | 11437   |
| 80° | 11365   | 11365   | 11365   |
| 85° | 11321   | 11321   | 11321   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 88889 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 510.1  | 27.6      |
| 10°-20°   | 721.4  | 39.1      |
| 20°-30°   | 371.6  | 20.1      |
| 30°-40°   | 136.7  | 7.4       |
| 40°-50°   | 60.1   | 3.3       |
| 50°-60°   | 26.3   | 1.4       |
| 60°-70°   | 11.5   | 0.6       |
| 70°-80°   | 5.8    | 0.3       |
| 80°-90°   | 1.6    | 0.1       |
| 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°    | 1603.1 | 86.9      |
| 0°-40°    | 1739.8 | 94.3      |
| 0°-60°    | 1826.3 | 99.0      |
| 0°-90°    | 1845.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1845.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6547 | 6547  | 6547 | 6547  | 6547 |      |
| 5°  | 5286 | 5466  | 5938 | 6358  | 6539 | 425  |
| 15° | 1179 | 1370  | 2294 | 3827  | 4532 | 360  |
| 25° | 313  | 350   | 518  | 1189  | 1792 | 150  |
| 35° | 92   | 106   | 157  | 275   | 450  | 62   |
| 45° | 52   | 60    | 70   | 84    | 127  | 42   |
| 55° | 32   | 28    | 26   | 28    | 30   | 29   |
| 65° | 12   | 12    | 12   | 10    | 12   | 12   |
| 75° | 6    | 6     | 6    | 6     | 6    | 6    |
| 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°    | 6546.9 | 6546.9 | 6546.9 | 6546.9 | 6546.9 |
| 2.5°  | 6172.6 | 6246.2 | 6383.6 | 6515.1 | 6568.8 |
| 5°    | 5286.5 | 5465.7 | 5937.6 | 6357.8 | 6538.9 |
| 7.5°  | 4093.8 | 4388.5 | 5153.1 | 5939.6 | 6262.2 |
| 10°   | 2841.4 | 3140.0 | 4167.5 | 5298.5 | 5772.4 |
| 12.5° | 1811.9 | 2102.7 | 3211.7 | 4587.6 | 5202.9 |
| 15°   | 1178.8 | 1369.9 | 2293.8 | 3827.0 | 4531.9 |
| 17.5° | 818.4  | 953.8  | 1561.1 | 3020.6 | 3789.2 |
| 20°   | 585.4  | 681.0  | 1049.3 | 2303.8 | 3048.5 |
| 22.5° | 424.1  | 489.8  | 728.8  | 1682.5 | 2369.5 |
| 25°   | 312.6  | 350.4  | 517.7  | 1188.7 | 1792.0 |
| 27.5° | 231.0  | 254.9  | 374.3  | 820.4  | 1310.2 |
| 30°   | 167.3  | 187.2  | 274.8  | 563.5  | 933.9  |
| 32.5° | 121.5  | 139.4  | 205.1  | 390.3  | 651.1  |
| 35°   | 91.6   | 105.5  | 157.3  | 274.8  | 450.0  |
| 37.5° | 75.7   | 83.6   | 129.4  | 199.1  | 318.6  |
| 40°   | 63.7   | 71.7   | 111.5  | 147.3  | 233.0  |
| 42.5° | 55.8   | 65.7   | 91.6   | 109.5  | 175.2  |
| 45°   | 51.8   | 59.7   | 69.7   | 83.6   | 127.4  |
| 47.5° | 51.8   | 49.8   | 53.8   | 63.7   | 89.6   |
| 50°   | 49.8   | 41.8   | 41.8   | 49.8   | 61.7   |
| 52.5° | 41.8   | 33.8   | 33.8   | 35.8   | 41.8   |
| 55°   | 31.9   | 27.9   | 25.9   | 27.9   | 29.9   |
| 57.5° | 23.9   | 23.9   | 21.9   | 19.9   | 21.9   |
| 60°   | 17.9   | 17.9   | 15.9   | 15.9   | 15.9   |
| 62.5° | 13.9   | 13.9   | 13.9   | 11.9   | 13.9   |
| 65°   | 11.9   | 11.9   | 11.9   | 10.0   | 11.9   |
| 67.5° | 10.0   | 10.0   | 8.0    | 10.0   | 10.0   |
| 70°   | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    |
| 72.5° | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    |
| 75°   | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    |
| 77.5° | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 80°   | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 82.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 85°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)