

Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P1503559

Luminaire Tested: PRLX-SM4-01-LS-FS-D2W-XXXX-DIFF-VF (4000K-800LM)

Issue Date: 7/28/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1503559  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2606-836-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/28/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-SM4-01-LS-FS-D2W-XXXX-DIFF-VF (4000K-800LM)  
Description: PrentaLux Fluxyn SM4 SURFACE MOUNT, ROUND, DIFFUSE LENS  
LIGHT LEVEL 2 - 800 NOMINAL LUMENS  
Light Source: SELECTABLE CCT - 4000K CCT, 90 CRI - DIM TO WARM (1800K)  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

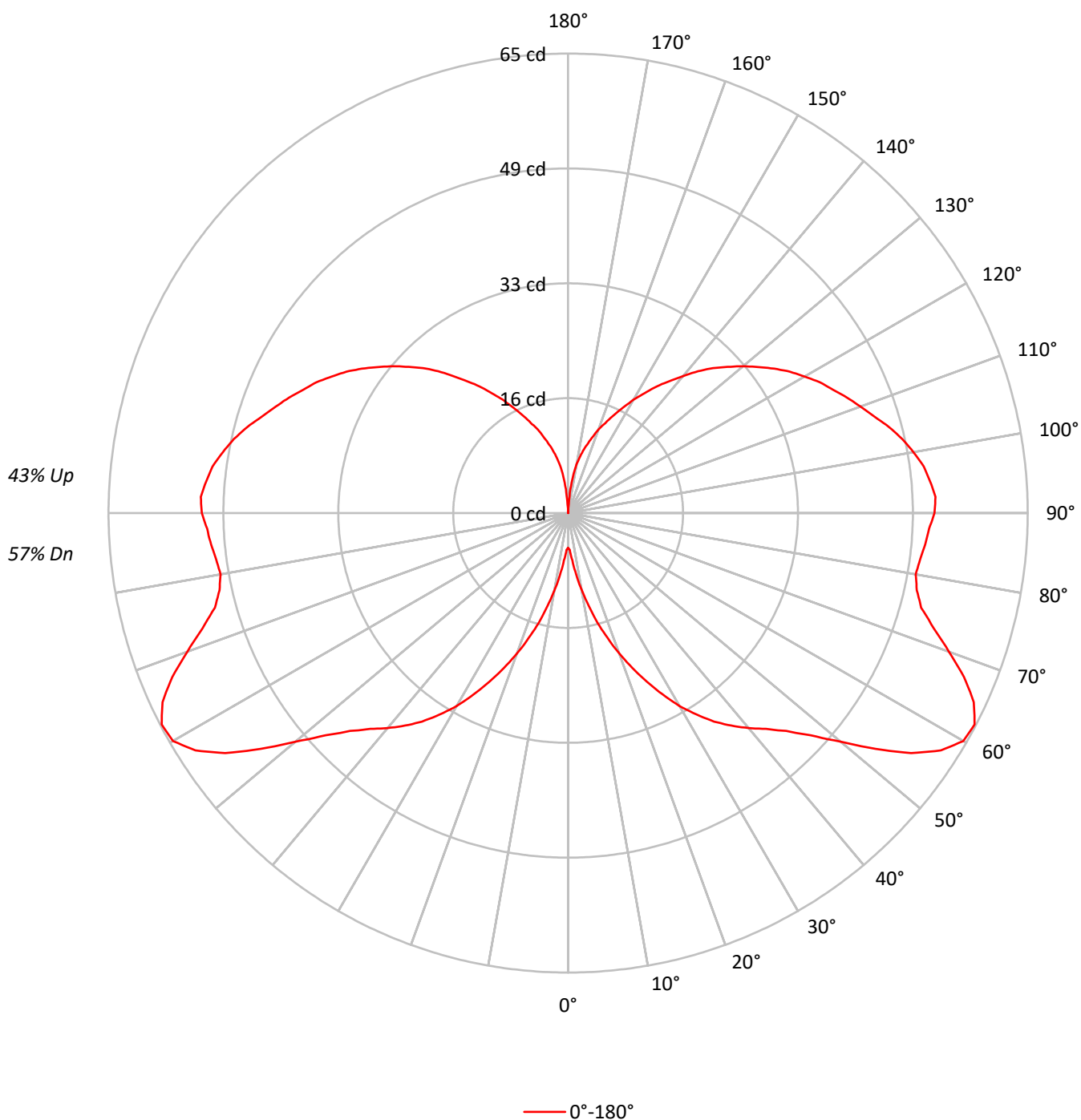
Lumens per Lamp: N/A  
Luminaire Lumens: 525.2 lumens  
Efficiency: N/A  
Efficacy: 59.7 lumens/watt  
Spacing Criteria (0/90/45): 5.38 / 5.38 / 4.76  
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.14')  
CIE Type: General Diffuse

Input Watts (W): 8.8  
Input Voltage (V): 120  
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 | 0  |  |  |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |  |  |
| 0   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 74 | 74 | 74 | 63 | 63 | 63 | 57 |  |  |
| 1   | 94  | 87  | 81  | 75  | 86  | 80  | 75  | 70  | 68 | 64 | 60 | 57 | 54 | 51 | 47 | 44 | 42 | 37 |  |  |
| 2   | 83  | 73  | 64  | 57  | 76  | 67  | 59  | 53  | 56 | 50 | 45 | 46 | 42 | 38 | 37 | 34 | 31 | 26 |  |  |
| 3   | 74  | 62  | 52  | 44  | 68  | 57  | 48  | 41  | 47 | 41 | 35 | 39 | 34 | 29 | 31 | 27 | 23 | 19 |  |  |
| 4   | 67  | 53  | 43  | 36  | 61  | 49  | 40  | 33  | 41 | 34 | 28 | 33 | 28 | 23 | 26 | 22 | 18 | 14 |  |  |
| 5   | 61  | 46  | 36  | 29  | 55  | 43  | 34  | 27  | 36 | 28 | 23 | 29 | 23 | 19 | 23 | 18 | 15 | 11 |  |  |
| 6   | 55  | 41  | 31  | 24  | 51  | 38  | 29  | 22  | 31 | 24 | 19 | 26 | 20 | 15 | 20 | 16 | 12 | 9  |  |  |
| 7   | 51  | 36  | 27  | 21  | 46  | 34  | 25  | 19  | 28 | 21 | 16 | 23 | 17 | 13 | 18 | 14 | 10 | 7  |  |  |
| 8   | 47  | 33  | 24  | 18  | 43  | 30  | 22  | 16  | 25 | 19 | 14 | 21 | 15 | 11 | 16 | 12 | 9  | 6  |  |  |
| 9   | 44  | 30  | 21  | 15  | 40  | 27  | 19  | 14  | 23 | 16 | 12 | 19 | 13 | 10 | 15 | 11 | 7  | 5  |  |  |
| 10  | 41  | 27  | 19  | 13  | 37  | 25  | 17  | 12  | 21 | 15 | 10 | 17 | 12 | 8  | 14 | 9  | 6  | 4  |  |  |

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

|     |      |
|-----|------|
|     | 0°   |
| 0°  | 271  |
| 5°  | 362  |
| 10° | 588  |
| 15° | 845  |
| 20° | 1105 |
| 25° | 1384 |
| 30° | 1679 |
| 35° | 1959 |
| 40° | 2224 |
| 45° | 2536 |
| 50° | 3068 |
| 55° | 3824 |
| 60° | 4465 |
| 65° | 4759 |
| 70° | 4753 |
| 75° | 4824 |
| 80° | 5367 |
| 85° | 6494 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $90^\circ$

Luminance: 8278 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.8    | 0.1       |
| 10°-20°   | 4.7    | 0.9       |
| 20°-30°   | 12.3   | 2.3       |
| 30°-40°   | 22.6   | 4.3       |
| 40°-50°   | 34.3   | 6.5       |
| 50°-60°   | 52.6   | 10.0      |
| 60°-70°   | 61.9   | 11.8      |
| 70°-80°   | 55.5   | 10.6      |
| 80°-90°   | 55.3   | 10.5      |
| 90°-100°  | 55.9   | 10.6      |
| 100°-110° | 49.6   | 9.5       |
| 110°-120° | 41.1   | 7.8       |
| 120°-130° | 31.9   | 6.1       |
| 130°-140° | 22.5   | 4.3       |
| 140°-150° | 13.8   | 2.6       |
| 150°-160° | 7.2    | 1.4       |
| 160°-170° | 2.9    | 0.5       |
| 170°-180° | 0.4    | 0.1       |
| 0°-30°    | 17.8   | 3.4       |
| 0°-40°    | 40.4   | 7.7       |
| 0°-60°    | 127.3  | 24.2      |
| 0°-90°    | 300.0  | 57.1      |
| 90°-120°  | 146.6  | 27.9      |
| 90°-150°  | 214.8  | 40.9      |
| 90°-180°  | 225.0  | 42.8      |
| 0°-180°   | 525.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0° | Flux |
|------|----|------|
| 0°   | 5  |      |
| 5°   | 7  | 1    |
| 15°  | 16 | 5    |
| 25°  | 26 | 12   |
| 35°  | 36 | 23   |
| 45°  | 44 | 34   |
| 55°  | 59 | 53   |
| 65°  | 63 | 62   |
| 75°  | 52 | 56   |
| 85°  | 51 | 41   |
| 90°  | 52 | 28   |
| 95°  | 51 | 42   |
| 105° | 47 | 50   |
| 115° | 41 | 41   |
| 125° | 36 | 32   |
| 135° | 29 | 22   |
| 145° | 22 | 14   |
| 155° | 15 | 7    |
| 165° | 10 | 3    |
| 175° | 3  | 0    |
| 180° | 0  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°   |
|--------|------|
| 0°     | 4.9  |
| 2.5°   | 5.2  |
| 5°     | 6.7  |
| 7.5°   | 8.8  |
| 10°    | 11.1 |
| 12.5°  | 13.4 |
| 15°    | 16.1 |
| 17.5°  | 18.5 |
| 20°    | 21.1 |
| 22.5°  | 23.7 |
| 25°    | 26.3 |
| 27.5°  | 28.9 |
| 30°    | 31.5 |
| 32.5°  | 33.8 |
| 35°    | 36.0 |
| 37.5°  | 37.9 |
| 40°    | 39.7 |
| 42.5°  | 41.4 |
| 45°    | 43.6 |
| 47.5°  | 46.5 |
| 50°    | 50.3 |
| 52.5°  | 54.8 |
| 55°    | 59.2 |
| 57.5°  | 62.5 |
| 60°    | 64.5 |
| 62.5°  | 64.8 |
| 65°    | 63.3 |
| 67.5°  | 60.6 |
| 70°    | 57.3 |
| 72.5°  | 54.2 |
| 75°    | 51.7 |
| 77.5°  | 50.5 |
| 80°    | 49.9 |
| 82.5°  | 50.2 |
| 85°    | 50.7 |
| 87.5°  | 51.1 |
| 90°    | 51.8 |
| 92.5°  | 52.0 |
| 95°    | 51.4 |
| 97.5°  | 50.7 |
| 100°   | 49.6 |
| 102.5° | 48.4 |
| 105°   | 47.0 |
| 107.5° | 45.4 |
| 110°   | 44.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 42.7 |
| 115°   | 41.3 |
| 117.5° | 40.1 |
| 120°   | 38.6 |
| 122.5° | 37.2 |
| 125°   | 35.6 |
| 127.5° | 33.9 |
| 130°   | 32.3 |
| 132.5° | 30.6 |
| 135°   | 29.0 |
| 137.5° | 27.2 |
| 140°   | 25.3 |
| 142.5° | 23.5 |
| 145°   | 21.9 |
| 147.5° | 20.1 |
| 150°   | 18.5 |
| 152.5° | 16.8 |
| 155°   | 15.3 |
| 157.5° | 13.8 |
| 160°   | 12.6 |
| 162.5° | 11.1 |
| 165°   | 9.8  |
| 167.5° | 8.5  |
| 170°   | 7.1  |
| 172.5° | 5.3  |
| 175°   | 2.9  |
| 177.5° | 0.1  |
| 180°   | 0.0  |

(END OF REPORT)