

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: P1503567

Luminaire Tested: PRLX-SM4-01-LS-FS-D2W-XXXX-SMGY-VF (3000K-650LM)

Issue Date: 7/28/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1503567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2606-836-3)  
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-SMGY-VF (3000K-650LM)  
Description: PrentaLux Fluxyn SM4 SURFACE MOUNT, ROUND, SMOKY GRAY LENS  
LIGHT LEVEL 1 - 650 NOMINAL LUMENS  
Light Source: SELECTABLE CCT - 3000K CCT, 90 CRI - DIM TO WARM (1800K)  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

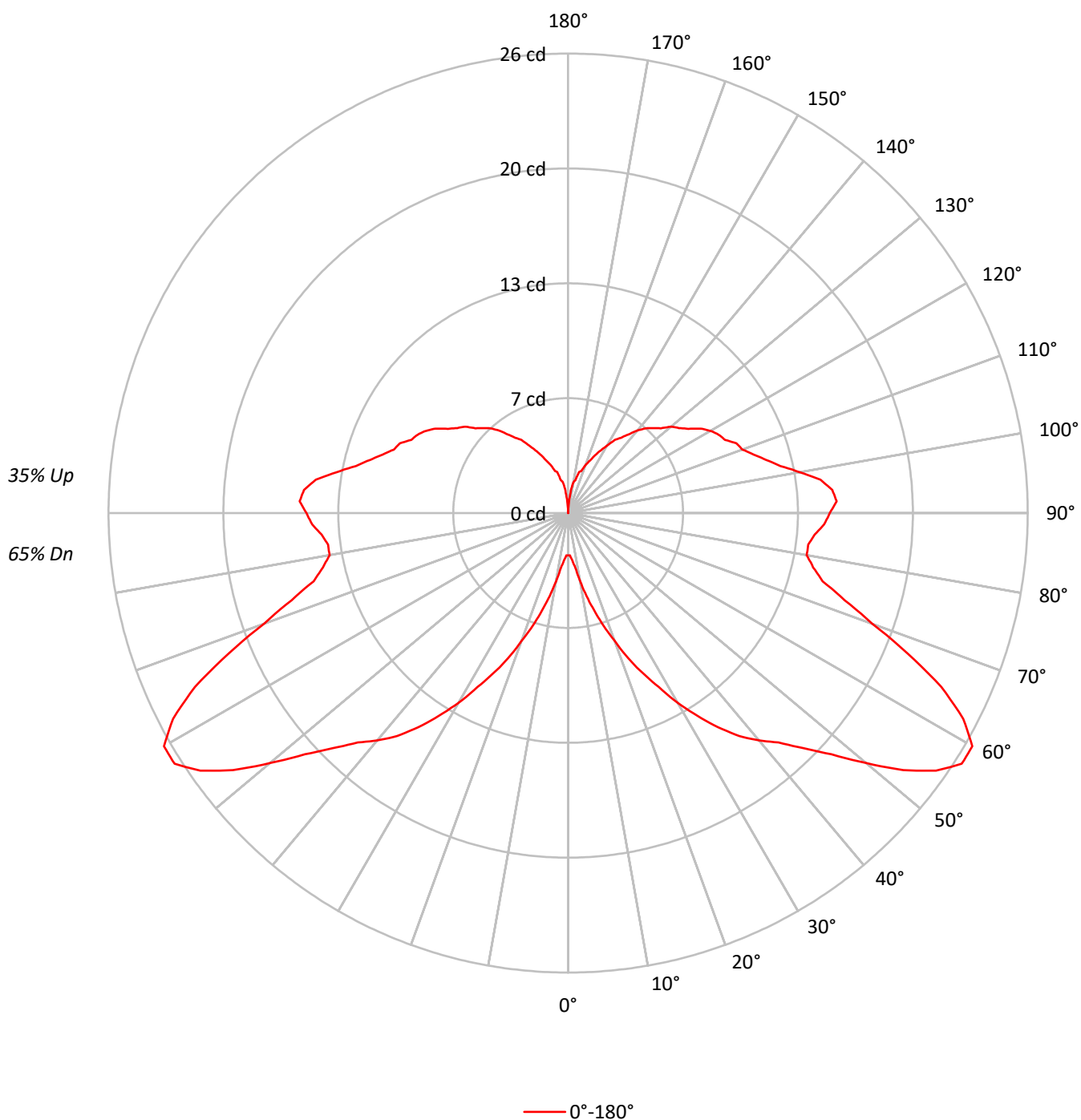
Lumens per Lamp: N/A  
Luminaire Lumens: 164.4 lumens  
Efficiency: N/A  
Efficacy: 23.8 lumens/watt  
Spacing Criteria (0/90/45): 4.79 / 4.79 / 4.12  
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.14')  
CIE Type: Semi-Direct

Input Watts (W): 6.9  
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   | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 81 | 81 | 81 | 70 | 70 | 70 | 65 |  |  |
| 1   | 96  | 89  | 84  | 78  | 90  | 84  | 78  | 74  | 73 | 69 | 65 | 63 | 60 | 57 | 54 | 52 | 49 | 45 |  |  |
| 2   | 85  | 75  | 66  | 59  | 79  | 70  | 62  | 55  | 60 | 54 | 49 | 52 | 47 | 43 | 44 | 40 | 37 | 32 |  |  |
| 3   | 76  | 63  | 54  | 46  | 70  | 59  | 50  | 43  | 51 | 44 | 38 | 43 | 38 | 33 | 37 | 32 | 28 | 24 |  |  |
| 4   | 68  | 54  | 44  | 37  | 63  | 51  | 41  | 34  | 44 | 36 | 30 | 37 | 31 | 26 | 31 | 26 | 22 | 19 |  |  |
| 5   | 62  | 47  | 37  | 30  | 57  | 44  | 35  | 28  | 38 | 30 | 24 | 32 | 26 | 21 | 27 | 22 | 18 | 14 |  |  |
| 6   | 56  | 42  | 32  | 25  | 52  | 39  | 30  | 23  | 33 | 26 | 20 | 28 | 22 | 17 | 24 | 19 | 15 | 12 |  |  |
| 7   | 52  | 37  | 27  | 21  | 48  | 34  | 26  | 19  | 30 | 22 | 17 | 25 | 19 | 14 | 21 | 16 | 12 | 9  |  |  |
| 8   | 48  | 33  | 24  | 18  | 44  | 31  | 22  | 17  | 27 | 20 | 14 | 23 | 17 | 12 | 19 | 14 | 10 | 8  |  |  |
| 9   | 44  | 30  | 21  | 15  | 41  | 28  | 20  | 14  | 24 | 17 | 12 | 21 | 15 | 11 | 17 | 12 | 9  | 6  |  |  |
| 10  | 41  | 27  | 19  | 13  | 38  | 25  | 18  | 12  | 22 | 15 | 11 | 19 | 13 | 9  | 16 | 11 | 8  | 5  |  |  |

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

|     | 0°   |
|-----|------|
| 0°  | 133  |
| 5°  | 146  |
| 10° | 207  |
| 15° | 299  |
| 20° | 403  |
| 25° | 526  |
| 30° | 661  |
| 35° | 805  |
| 40° | 941  |
| 45° | 1094 |
| 50° | 1342 |
| 55° | 1641 |
| 60° | 1828 |
| 65° | 1752 |
| 70° | 1518 |
| 75° | 1390 |
| 80° | 1474 |
| 85° | 1793 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $0^\circ$ 

Vertical Angle:  $90^\circ$

Luminance: 2365 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.3    | 0.2       |
| 10°-20°   | 1.7    | 1.0       |
| 20°-30°   | 4.7    | 2.9       |
| 30°-40°   | 9.3    | 5.7       |
| 40°-50°   | 14.8   | 9.0       |
| 50°-60°   | 22.4   | 13.7      |
| 60°-70°   | 22.7   | 13.8      |
| 70°-80°   | 16.2   | 9.9       |
| 80°-90°   | 15.4   | 9.4       |
| 90°-100°  | 16.0   | 9.7       |
| 100°-110° | 12.4   | 7.5       |
| 110°-120° | 9.8    | 6.0       |
| 120°-130° | 7.5    | 4.6       |
| 130°-140° | 5.3    | 3.2       |
| 140°-150° | 3.3    | 2.0       |
| 150°-160° | 1.7    | 1.0       |
| 160°-170° | 0.7    | 0.4       |
| 170°-180° | 0.1    | 0.1       |
| <hr/>     |        |           |
| 0°-30°    | 6.7    | 4.1       |
| 0°-40°    | 16.0   | 9.7       |
| 0°-60°    | 53.2   | 32.4      |
| 0°-90°    | 107.5  | 65.4      |
| 90°-120°  | 38.2   | 23.3      |
| 90°-150°  | 54.4   | 33.1      |
| 90°-180°  | 57.0   | 34.7      |
| 0°-180°   | 164.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0° | Flux |
|------|----|------|
| 0°   | 2  |      |
| 5°   | 3  | 0    |
| 15°  | 6  | 2    |
| 25°  | 10 | 5    |
| 35°  | 15 | 9    |
| 45°  | 19 | 15   |
| 55°  | 25 | 22   |
| 65°  | 23 | 23   |
| 75°  | 15 | 16   |
| 85°  | 14 | 11   |
| 90°  | 15 | 8    |
| 95°  | 15 | 12   |
| 105° | 12 | 12   |
| 115° | 10 | 10   |
| 125° | 8  | 8    |
| 135° | 7  | 5    |
| 145° | 5  | 3    |
| 155° | 4  | 2    |
| 165° | 2  | 1    |
| 175° | 1  | 0    |
| 180° | 0  |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |      |
|--------|------|
| 0°     | 2.4  |
| 2.5°   | 2.4  |
| 5°     | 2.7  |
| 7.5°   | 3.1  |
| 10°    | 3.9  |
| 12.5°  | 4.8  |
| 15°    | 5.7  |
| 17.5°  | 6.7  |
| 20°    | 7.7  |
| 22.5°  | 8.9  |
| 25°    | 10.0 |
| 27.5°  | 11.1 |
| 30°    | 12.4 |
| 32.5°  | 13.6 |
| 35°    | 14.8 |
| 37.5°  | 15.9 |
| 40°    | 16.8 |
| 42.5°  | 17.6 |
| 45°    | 18.8 |
| 47.5°  | 20.2 |
| 50°    | 22.0 |
| 52.5°  | 23.9 |
| 55°    | 25.4 |
| 57.5°  | 26.4 |
| 60°    | 26.4 |
| 62.5°  | 25.2 |
| 65°    | 23.3 |
| 67.5°  | 20.8 |
| 70°    | 18.3 |
| 72.5°  | 16.4 |
| 75°    | 14.9 |
| 77.5°  | 14.2 |
| 80°    | 13.7 |
| 82.5°  | 13.7 |
| 85°    | 14.0 |
| 87.5°  | 14.5 |
| 90°    | 14.8 |
| 92.5°  | 15.2 |
| 95°    | 15.0 |
| 97.5°  | 14.4 |
| 100°   | 13.3 |
| 102.5° | 12.3 |
| 105°   | 11.6 |
| 107.5° | 11.0 |
| 110°   | 10.5 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 10.3 |
| 115°   | 9.8  |
| 117.5° | 9.6  |
| 120°   | 9.3  |
| 122.5° | 8.9  |
| 125°   | 8.3  |
| 127.5° | 7.9  |
| 130°   | 7.6  |
| 132.5° | 7.1  |
| 135°   | 6.8  |
| 137.5° | 6.5  |
| 140°   | 6.1  |
| 142.5° | 5.6  |
| 145°   | 5.2  |
| 147.5° | 4.9  |
| 150°   | 4.4  |
| 152.5° | 4.0  |
| 155°   | 3.6  |
| 157.5° | 3.2  |
| 160°   | 2.9  |
| 162.5° | 2.5  |
| 165°   | 2.4  |
| 167.5° | 1.9  |
| 170°   | 1.8  |
| 172.5° | 1.4  |
| 175°   | 0.8  |
| 177.5° | 0.1  |
| 180°   | 0.0  |

(END OF REPORT)