

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: PrentaLux

Report Number: P979333

Luminaire Tested: PRLX-240-927-74L-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P979333  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-927-74L-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

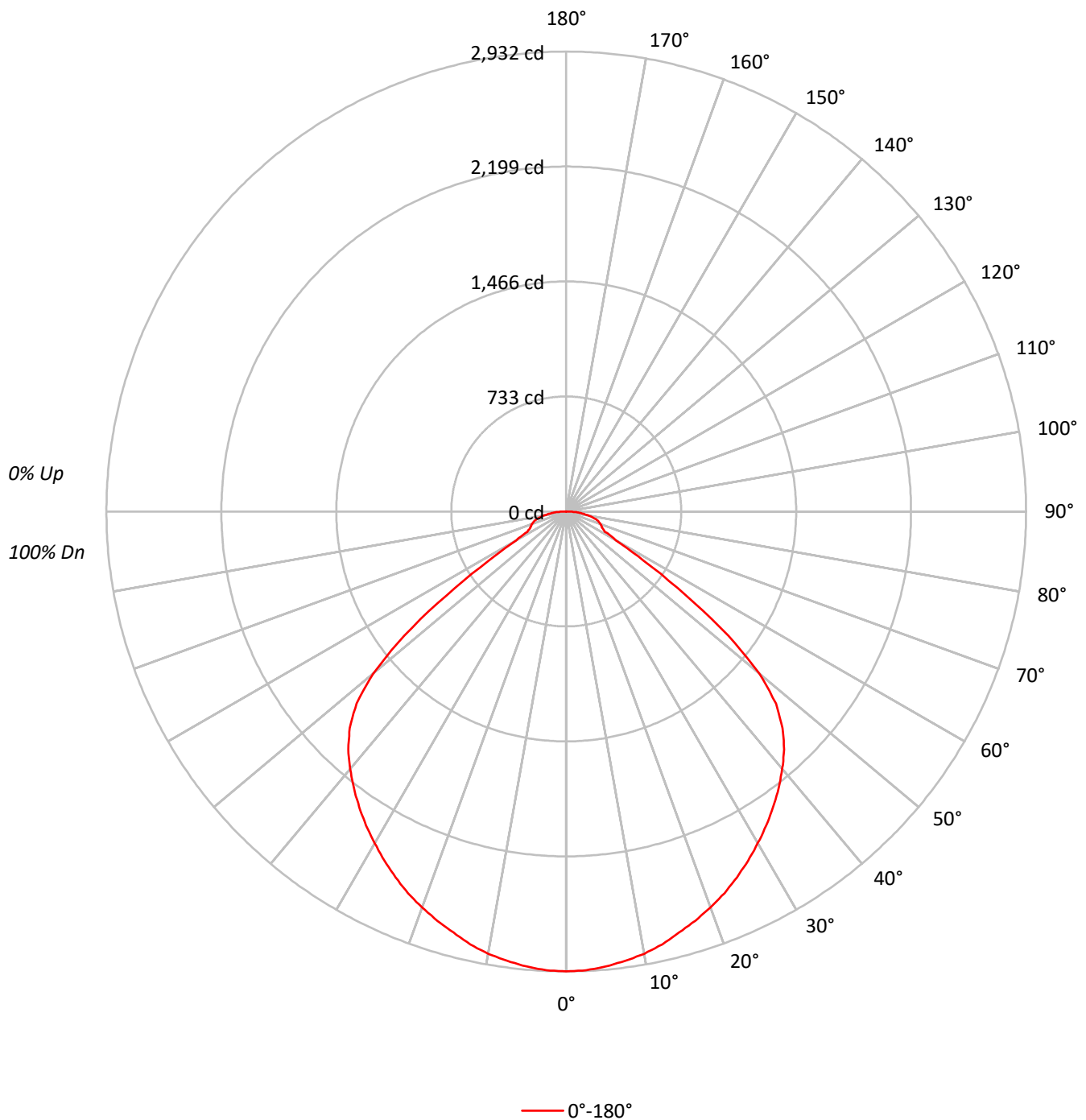
Lumens per Lamp: N/A  
Luminaire Lumens: 6561.3 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37  
Luminous Opening: Circular (Dia: 1.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 61.5  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 98  | 95  |  | 96  | 94  | 92  |  | 93  |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 82  |  | 87  | 83  | 80  |  | 84  |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  |  | 78  | 73  | 69  |  | 76  |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  |  | 71  | 65  | 61  |  | 69  |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 59  | 54  |  | 64  | 58  | 54  |  | 62  |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 53  | 48  |  | 59  | 52  | 48  |  | 57  |
| 7   | 70  | 57  | 49  | 44  | 68  | 56  | 49  | 43  | 55  | 48  | 43  |  | 54  | 47  | 43  |  | 52  |
| 8   | 65  | 52  | 45  | 39  | 64  | 52  | 44  | 39  | 50  | 44  | 39  |  | 49  | 43  | 39  |  | 48  |
| 9   | 61  | 48  | 41  | 35  | 59  | 48  | 40  | 35  | 47  | 40  | 35  |  | 46  | 39  | 35  |  | 45  |
| 10  | 57  | 45  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 37  | 32  |  | 42  | 36  | 32  |  | 41  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 29522 |
| 5°  | 29439 |
| 10° | 29273 |
| 15° | 28969 |
| 20° | 28784 |
| 25° | 28599 |
| 30° | 28401 |
| 35° | 28276 |
| 40° | 28168 |
| 45° | 27783 |
| 50° | 25160 |
| 55° | 16351 |
| 60° | 7381  |
| 65° | 6061  |
| 70° | 6854  |
| 75° | 7633  |
| 80° | 8002  |
| 85° | 8214  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 27783 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 276.4  | 4.2       |
| 10°-20°   | 785.2  | 12.0      |
| 20°-30°   | 1186.5 | 18.1      |
| 30°-40°   | 1439.9 | 21.9      |
| 40°-50°   | 1484.5 | 22.6      |
| 50°-60°   | 841.9  | 12.8      |
| 60°-70°   | 266.3  | 4.1       |
| 70°-80°   | 203.2  | 3.1       |
| 80°-90°   | 77.4   | 1.2       |
| 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°    | 2248.1 | 34.3      |
| 0°-40°    | 3688.0 | 56.2      |
| 0°-60°    | 6014.5 | 91.7      |
| 0°-90°    | 6561.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6561.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2932 |      |
| 5°  | 2913 | 276  |
| 15° | 2779 | 785  |
| 25° | 2574 | 1187 |
| 35° | 2300 | 1440 |
| 45° | 1951 | 1484 |
| 55° | 931  | 842  |
| 65° | 254  | 266  |
| 75° | 196  | 203  |
| 85° | 71   | 77   |
| 90° | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2932.0 |
| 2.5°  | 2927.7 |
| 5°    | 2912.6 |
| 7.5°  | 2888.9 |
| 10°   | 2863.1 |
| 12.5° | 2826.4 |
| 15°   | 2779.0 |
| 17.5° | 2735.9 |
| 20°   | 2686.3 |
| 22.5° | 2634.5 |
| 25°   | 2574.2 |
| 27.5° | 2509.5 |
| 30°   | 2442.7 |
| 32.5° | 2373.7 |
| 35°   | 2300.4 |
| 37.5° | 2224.9 |
| 40°   | 2143.0 |
| 42.5° | 2056.7 |
| 45°   | 1951.1 |
| 47.5° | 1813.1 |
| 50°   | 1606.2 |
| 52.5° | 1302.2 |
| 55°   | 931.4  |
| 57.5° | 584.3  |
| 60°   | 366.5  |
| 62.5° | 278.1  |
| 65°   | 254.4  |
| 67.5° | 243.6  |
| 70°   | 232.8  |
| 72.5° | 217.7  |
| 75°   | 196.2  |
| 77.5° | 170.3  |
| 80°   | 138.0  |
| 82.5° | 105.6  |
| 85°   | 71.1   |
| 87.5° | 38.8   |
| 90°   | 0.0    |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 18.40            | 19.87 | 18.76 | 20.18 | 20.50 | 18.40          | 19.87 | 18.76 | 20.18 | 20.50 |
|                 | 3H   | 19.29            | 20.60 | 19.67 | 20.93 | 21.29 | 19.29          | 20.60 | 19.67 | 20.93 | 21.29 |
|                 | 4H   | 19.90            | 21.12 | 20.30 | 21.47 | 21.85 | 19.90          | 21.12 | 20.30 | 21.47 | 21.85 |
|                 | 6H   | 20.50            | 21.62 | 20.91 | 21.99 | 22.38 | 20.50          | 21.62 | 20.91 | 21.99 | 22.38 |
|                 | 8H   | 20.73            | 21.80 | 21.16 | 22.19 | 22.59 | 20.73          | 21.80 | 21.16 | 22.19 | 22.59 |
|                 | 12H  | 20.92            | 21.94 | 21.35 | 22.32 | 22.75 | 20.92          | 21.94 | 21.35 | 22.32 | 22.75 |
| 4H              | 2H   | 18.52            | 19.74 | 18.92 | 20.09 | 20.47 | 18.52          | 19.74 | 18.92 | 20.09 | 20.47 |
|                 | 3H   | 19.77            | 20.76 | 20.18 | 21.17 | 21.57 | 19.77          | 20.76 | 20.18 | 21.17 | 21.57 |
|                 | 4H   | 20.59            | 21.48 | 21.02 | 21.90 | 22.34 | 20.59          | 21.48 | 21.02 | 21.90 | 22.34 |
|                 | 6H   | 21.39            | 22.17 | 21.85 | 22.62 | 23.08 | 21.39          | 22.17 | 21.85 | 22.62 | 23.08 |
|                 | 8H   | 21.71            | 22.44 | 22.18 | 22.89 | 23.36 | 21.71          | 22.44 | 22.18 | 22.89 | 23.36 |
|                 | 12H  | 21.97            | 22.62 | 22.46 | 23.10 | 23.58 | 21.97          | 22.62 | 22.46 | 23.10 | 23.58 |
| 8H              | 4H   | 20.90            | 21.63 | 21.37 | 22.08 | 22.54 | 20.90          | 21.63 | 21.37 | 22.08 | 22.54 |
|                 | 6H   | 21.87            | 22.48 | 22.37 | 22.97 | 23.45 | 21.87          | 22.48 | 22.37 | 22.97 | 23.45 |
|                 | 8H   | 22.29            | 22.84 | 22.81 | 23.35 | 23.84 | 22.29          | 22.84 | 22.81 | 23.35 | 23.84 |
|                 | 12H  | 22.66            | 23.15 | 23.17 | 23.65 | 24.21 | 22.66          | 23.15 | 23.17 | 23.65 | 24.21 |
| 12H             | 4H   | 20.94            | 21.60 | 21.43 | 22.08 | 22.55 | 20.94          | 21.60 | 21.43 | 22.08 | 22.55 |
|                 | 6H   | 21.95            | 22.50 | 22.47 | 23.01 | 23.50 | 21.95          | 22.50 | 22.47 | 23.01 | 23.50 |
|                 | 8H   | 22.44            | 22.94 | 22.95 | 23.43 | 24.00 | 22.44          | 22.94 | 22.95 | 23.43 | 24.00 |