

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: P979883

Luminaire Tested: PRLX-241-940-62L-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P979883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-241-940-62L-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

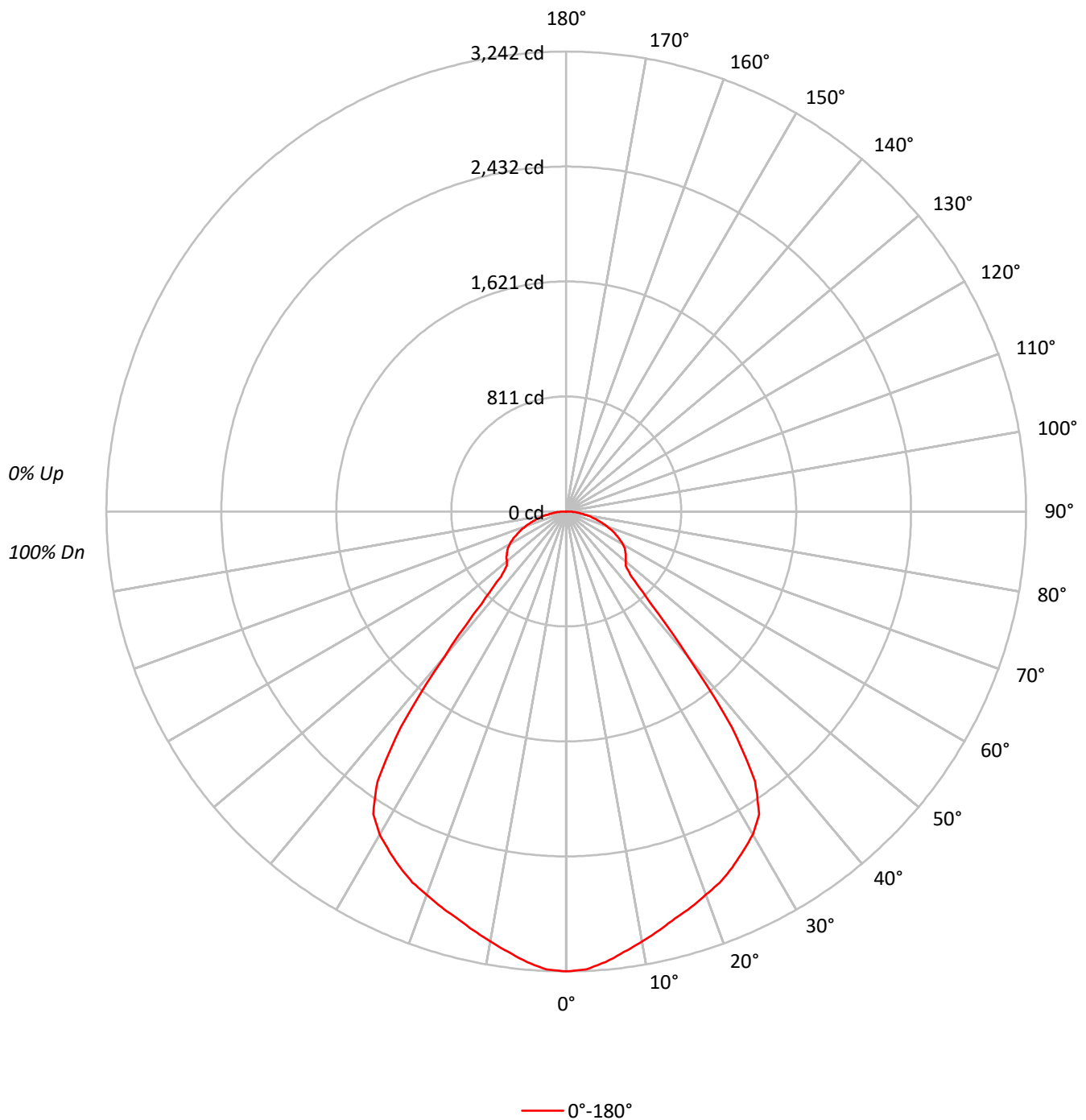
Lumens per Lamp: N/A  
Luminaire Lumens: 5497.9 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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

TEST NUMBER: P979883

CATALOG NUMBER: PRLX-241-940-62L-F-U-S-WHTE-X

### Luminous Intensity Polar Plot



TEST NUMBER: P979883

CATALOG NUMBER: PRLX-241-940-62L-F-U-S-WHTE-X

**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   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 90  | 86  | 82  |  | 87  | 84  | 81  |  | 84  |
| 3   | 95  | 86  | 80  | 74  | 93  | 85  | 79  | 73  | 82  | 77  | 72  |  | 79  | 75  | 71  |  | 77  |
| 4   | 89  | 78  | 71  | 65  | 87  | 77  | 70  | 65  | 75  | 69  | 64  |  | 73  | 67  | 63  |  | 71  |
| 5   | 83  | 72  | 64  | 58  | 81  | 71  | 63  | 58  | 69  | 62  | 57  |  | 67  | 61  | 57  |  | 65  |
| 6   | 77  | 66  | 58  | 52  | 76  | 65  | 58  | 52  | 63  | 57  | 52  |  | 62  | 56  | 51  |  | 60  |
| 7   | 72  | 61  | 53  | 48  | 71  | 60  | 53  | 47  | 58  | 52  | 47  |  | 57  | 51  | 47  |  | 56  |
| 8   | 68  | 56  | 49  | 43  | 67  | 55  | 48  | 43  | 54  | 48  | 43  |  | 53  | 47  | 43  |  | 52  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  |  | 50  | 44  | 39  |  | 49  |
| 10  | 60  | 49  | 42  | 37  | 59  | 48  | 41  | 37  | 47  | 41  | 37  |  | 46  | 41  | 36  |  | 46  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 24990 |
| 5°  | 24670 |
| 10° | 24099 |
| 15° | 23696 |
| 20° | 23595 |
| 25° | 23552 |
| 30° | 23415 |
| 35° | 21840 |
| 40° | 13444 |
| 45° | 7068  |
| 50° | 6561  |
| 55° | 6855  |
| 60° | 7099  |
| 65° | 7043  |
| 70° | 6841  |
| 75° | 6520  |
| 80° | 6140  |
| 85° | 5661  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 62.5°  
Luminance: 7101 cd/sqm

TEST NUMBER: P979883

CATALOG NUMBER: PRLX-241-940-62L-F-U-S-WHTE-X

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 300.7  | 5.5       |
| 10°-20°   | 840.2  | 15.3      |
| 20°-30°   | 1275.6 | 23.2      |
| 30°-40°   | 1359.2 | 24.7      |
| 40°-50°   | 580.7  | 10.6      |
| 50°-60°   | 455.4  | 8.3       |
| 60°-70°   | 380.7  | 6.9       |
| 70°-80°   | 232.0  | 4.2       |
| 80°-90°   | 73.3   | 1.3       |
| 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°    | 2416.5 | 44.0      |
| 0°-40°    | 3775.8 | 68.7      |
| 0°-60°    | 4811.9 | 87.5      |
| 0°-90°    | 5497.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5497.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3242 |      |
| 5°  | 3188 | 301  |
| 15° | 2969 | 840  |
| 25° | 2769 | 1276 |
| 35° | 2321 | 1359 |
| 45° | 648  | 581  |
| 55° | 510  | 455  |
| 65° | 386  | 381  |
| 75° | 219  | 232  |
| 85° | 64   | 73   |
| 90° | 0    |      |

TEST NUMBER: P979883

CATALOG NUMBER: PRLX-241-940-62L-F-U-S-WHTE-X

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3241.6 |
| 2.5°  | 3231.2 |
| 5°    | 3187.9 |
| 7.5°  | 3132.1 |
| 10°   | 3078.5 |
| 12.5° | 3024.8 |
| 15°   | 2969.0 |
| 17.5° | 2925.7 |
| 20°   | 2876.1 |
| 22.5° | 2830.7 |
| 25°   | 2768.8 |
| 27.5° | 2700.6 |
| 30°   | 2630.4 |
| 32.5° | 2531.3 |
| 35°   | 2320.7 |
| 37.5° | 1918.1 |
| 40°   | 1335.9 |
| 42.5° | 881.6  |
| 45°   | 648.3  |
| 47.5° | 567.8  |
| 50°   | 547.1  |
| 52.5° | 530.6  |
| 55°   | 510.0  |
| 57.5° | 489.3  |
| 60°   | 460.4  |
| 62.5° | 425.3  |
| 65°   | 386.1  |
| 67.5° | 344.8  |
| 70°   | 303.5  |
| 72.5° | 260.2  |
| 75°   | 218.9  |
| 77.5° | 179.6  |
| 80°   | 138.3  |
| 82.5° | 101.2  |
| 85°   | 64.0   |
| 87.5° | 35.1   |
| 90°   | 0.0    |

TEST NUMBER: P979883

CATALOG NUMBER: PRLX-241-940-62L-F-U-S-WHTE-X

**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 | 17.19            | 18.53 | 17.55 | 18.84 | 19.15 | 17.19          | 18.53 | 17.55 | 18.84 | 19.15 |
|                 | 3H   | 19.19            | 20.39 | 19.57 | 20.72 | 21.09 | 19.19          | 20.39 | 19.57 | 20.72 | 21.09 |
|                 | 4H   | 19.95            | 21.07 | 20.35 | 21.42 | 21.81 | 19.95          | 21.07 | 20.35 | 21.42 | 21.81 |
|                 | 6H   | 20.53            | 21.57 | 20.95 | 21.94 | 22.34 | 20.53          | 21.57 | 20.95 | 21.94 | 22.34 |
|                 | 8H   | 20.73            | 21.72 | 21.16 | 22.11 | 22.51 | 20.73          | 21.72 | 21.16 | 22.11 | 22.51 |
|                 | 12H  | 20.87            | 21.82 | 21.30 | 22.20 | 22.63 | 20.87          | 21.82 | 21.30 | 22.20 | 22.63 |
| 4H              | 2H   | 17.86            | 18.98 | 18.26 | 19.33 | 19.71 | 17.86          | 18.98 | 18.26 | 19.33 | 19.71 |
|                 | 3H   | 20.06            | 20.99 | 20.47 | 21.40 | 21.80 | 20.06          | 20.99 | 20.47 | 21.40 | 21.80 |
|                 | 4H   | 20.94            | 21.78 | 21.37 | 22.20 | 22.64 | 20.94          | 21.78 | 21.37 | 22.20 | 22.64 |
|                 | 6H   | 21.66            | 22.39 | 22.12 | 22.83 | 23.30 | 21.66          | 22.39 | 22.12 | 22.83 | 23.30 |
|                 | 8H   | 21.91            | 22.59 | 22.37 | 23.04 | 23.51 | 21.91          | 22.59 | 22.37 | 23.04 | 23.51 |
|                 | 12H  | 22.09            | 22.70 | 22.58 | 23.18 | 23.65 | 22.09          | 22.70 | 22.58 | 23.18 | 23.65 |
| 8H              | 4H   | 21.26            | 21.94 | 21.73 | 22.39 | 22.86 | 21.26          | 21.94 | 21.73 | 22.39 | 22.86 |
|                 | 6H   | 22.12            | 22.68 | 22.62 | 23.17 | 23.65 | 22.12          | 22.68 | 22.62 | 23.17 | 23.65 |
|                 | 8H   | 22.46            | 22.96 | 22.98 | 23.47 | 23.96 | 22.46          | 22.96 | 22.98 | 23.47 | 23.96 |
|                 | 12H  | 22.74            | 23.17 | 23.25 | 23.67 | 24.24 | 22.74          | 23.17 | 23.25 | 23.67 | 24.24 |
| 12H             | 4H   | 21.29            | 21.90 | 21.77 | 22.38 | 22.85 | 21.29          | 21.90 | 21.77 | 22.38 | 22.85 |
|                 | 6H   | 22.18            | 22.68 | 22.70 | 23.20 | 23.69 | 22.18          | 22.68 | 22.70 | 23.20 | 23.69 |
|                 | 8H   | 22.58            | 23.02 | 23.10 | 23.52 | 24.09 | 22.58          | 23.02 | 23.10 | 23.52 | 24.09 |