

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: P981032

Luminaire Tested: PRLX-CYL3-10-935-23L-WD-U-S-X-X-WHTE

Issue Date: 4/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P981032  
TEST IS SCALED FROM ( FO44195.PSO)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-CYL3-10-935-23L-WD-U-S-X-X-WHTE  
Description: PrentaLux 3-INCH CYLINDER, WIDE FLOOD OPTIC  
2300 LUMENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

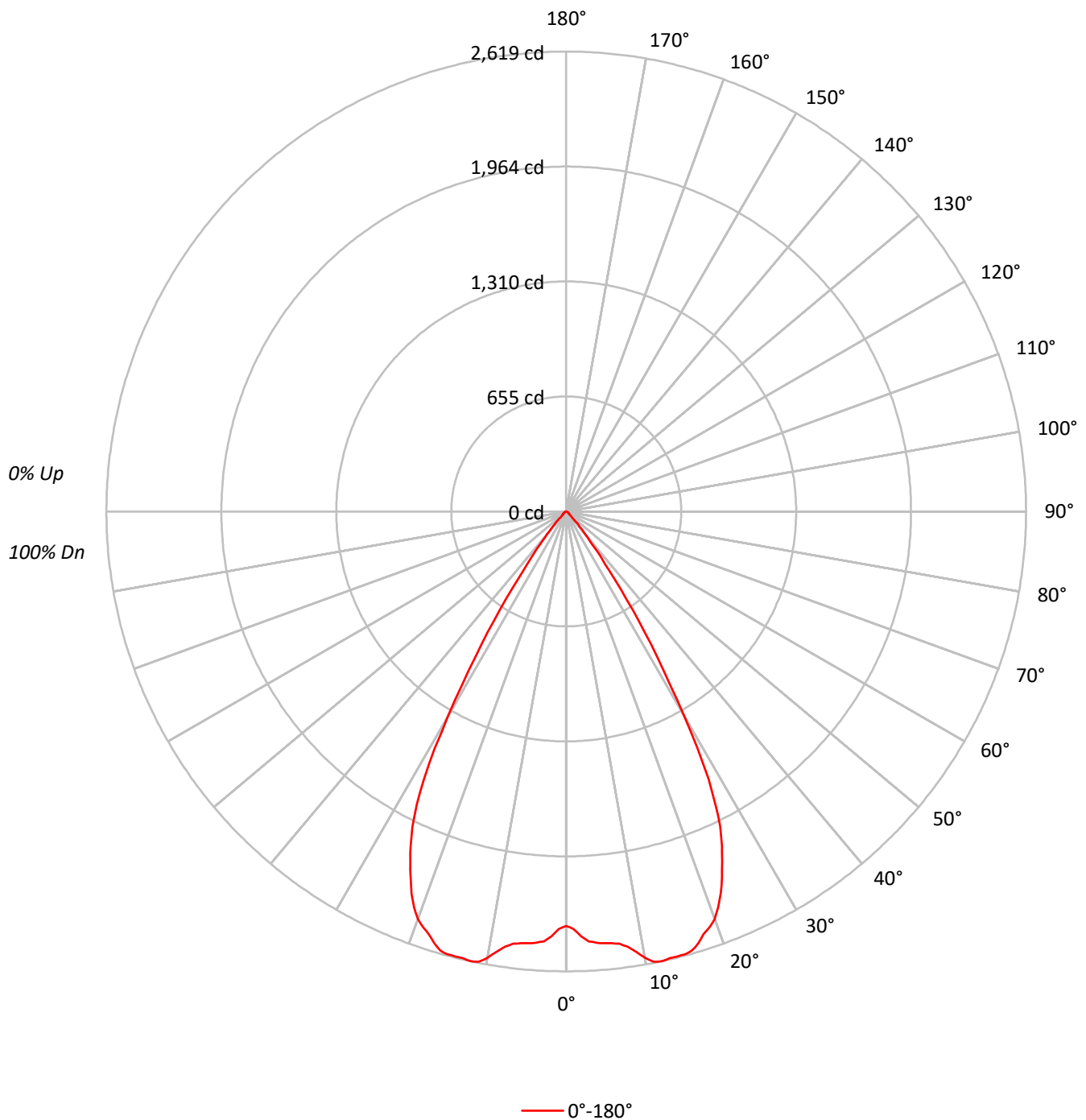
Lumens per Lamp: N/A  
Luminaire Lumens: 2339.6 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.07 / 1.07 / 0.89  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 22.5  
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  | 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 | 100 |    |    |    |    |    |  |  |
| 1   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |    |    |    |    |    |  |  |
| 2   | 108 | 104 | 100 | 97  | 106 | 102 | 99  | 96  | 99  | 96  | 94  | 96  | 94  | 92  | 93  | 91  | 90  | 88  |    |    |    |    |    |  |  |
| 3   | 103 | 97  | 93  | 89  | 101 | 96  | 92  | 88  | 93  | 90  | 87  | 91  | 88  | 85  | 89  | 86  | 84  | 82  |    |    |    |    |    |  |  |
| 4   | 98  | 91  | 86  | 82  | 97  | 90  | 85  | 82  | 88  | 84  | 81  | 86  | 83  | 80  | 84  | 81  | 79  | 77  |    |    |    |    |    |  |  |
| 5   | 94  | 86  | 80  | 76  | 92  | 85  | 80  | 76  | 83  | 79  | 75  | 82  | 78  | 75  | 80  | 77  | 74  | 73  |    |    |    |    |    |  |  |
| 6   | 89  | 81  | 75  | 71  | 88  | 80  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 70  | 68  |    |    |    |    |    |  |  |
| 7   | 85  | 76  | 71  | 67  | 84  | 76  | 70  | 66  | 74  | 70  | 66  | 73  | 69  | 66  | 72  | 68  | 65  | 64  |    |    |    |    |    |  |  |
| 8   | 81  | 72  | 67  | 63  | 80  | 72  | 66  | 62  | 71  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 60  |    |    |    |    |    |  |  |
| 9   | 78  | 68  | 63  | 59  | 77  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 58  | 65  | 61  | 58  | 57  |    |    |    |    |    |  |  |
| 10  | 74  | 65  | 59  | 56  | 73  | 64  | 59  | 56  | 64  | 59  | 55  | 63  | 58  | 55  | 62  | 58  | 55  | 54  |    |    |    |    |    |  |  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 517524 |
| 5°  | 543208 |
| 10° | 574850 |
| 15° | 593011 |
| 20° | 576290 |
| 25° | 507876 |
| 30° | 340508 |
| 35° | 144259 |
| 40° | 47890  |
| 45° | 12218  |
| 50° | 7744   |
| 55° | 6232   |
| 60° | 4780   |
| 65° | 3580   |
| 70° | 2885   |
| 75° | 2965   |
| 80° | 3915   |
| 85° | 4277   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $0^\circ$ 

Vertical Angle:  $45^\circ$

Luminance: 12218 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 238.0  | 10.2      |
| 10°-20°   | 729.5  | 31.2      |
| 20°-30°   | 927.3  | 39.6      |
| 30°-40°   | 371.0  | 15.9      |
| 40°-50°   | 46.3   | 2.0       |
| 50°-60°   | 15.0   | 0.6       |
| 60°-70°   | 7.1    | 0.3       |
| 70°-80°   | 3.8    | 0.2       |
| 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°    | 1894.8 | 81.0      |
| 0°-40°    | 2265.9 | 96.8      |
| 0°-60°    | 2327.1 | 99.5      |
| 0°-90°    | 2339.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2339.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2360 |      |
| 5°  | 2468 | 238  |
| 15° | 2612 | 729  |
| 25° | 2099 | 927  |
| 35° | 539  | 371  |
| 45° | 39   | 46   |
| 55° | 16   | 15   |
| 65° | 7    | 7    |
| 75° | 4    | 4    |
| 85° | 2    | 2    |
| 90° | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°  |        |
|-----|--------|
| 0°  | 2360.1 |
| 1°  | 2377.5 |
| 2°  | 2419.9 |
| 3°  | 2451.0 |
| 4°  | 2462.3 |
| 5°  | 2467.8 |
| 6°  | 2472.2 |
| 7°  | 2480.1 |
| 8°  | 2501.8 |
| 9°  | 2539.1 |
| 10° | 2581.7 |
| 11° | 2612.3 |
| 12° | 2618.9 |
| 13° | 2612.3 |
| 14° | 2610.8 |
| 15° | 2612.2 |
| 16° | 2601.2 |
| 17° | 2571.1 |
| 18° | 2531.0 |
| 19° | 2505.7 |
| 20° | 2469.6 |
| 21° | 2416.3 |
| 22° | 2349.4 |
| 23° | 2267.4 |
| 24° | 2183.4 |
| 25° | 2099.1 |
| 26° | 1998.7 |
| 27° | 1874.4 |
| 28° | 1727.3 |
| 29° | 1543.0 |
| 30° | 1344.8 |
| 31° | 1149.8 |
| 32° | 974.9  |
| 33° | 821.8  |
| 34° | 679.1  |
| 35° | 538.9  |
| 36° | 419.2  |
| 37° | 330.1  |
| 38° | 266.2  |
| 39° | 214.2  |
| 40° | 167.3  |
| 41° | 131.7  |
| 42° | 104.3  |
| 43° | 79.6   |
| 44° | 55.9   |

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**CANDELA DISTRIBUTION (continued):**

|     | 0°   |
|-----|------|
| 45° | 39.4 |
| 46° | 31.8 |
| 47° | 28.7 |
| 48° | 26.4 |
| 49° | 24.5 |
| 50° | 22.7 |
| 51° | 20.9 |
| 52° | 19.2 |
| 53° | 17.8 |
| 54° | 16.6 |
| 55° | 16.3 |
| 56° | 16.2 |
| 57° | 15.7 |
| 58° | 14.8 |
| 59° | 13.5 |
| 60° | 10.9 |
| 61° | 8.8  |
| 62° | 8.1  |
| 63° | 8.0  |
| 64° | 7.5  |
| 65° | 6.9  |
| 66° | 6.7  |
| 67° | 6.5  |
| 68° | 6.1  |
| 69° | 5.3  |
| 70° | 4.5  |
| 71° | 3.9  |
| 72° | 3.8  |
| 73° | 3.6  |
| 74° | 3.6  |
| 75° | 3.5  |
| 76° | 3.5  |
| 77° | 3.5  |
| 78° | 3.4  |
| 79° | 3.3  |
| 80° | 3.1  |
| 81° | 3.0  |
| 82° | 2.8  |
| 83° | 2.5  |
| 84° | 2.1  |
| 85° | 1.7  |
| 86° | 1.0  |
| 87° | 0.3  |
| 88° | 0.1  |
| 89° | 0.1  |

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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0.0}$

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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 | 8.16             | 9.08  | 8.53  | 9.39  | 9.71  | 8.16           | 9.08  | 8.53  | 9.39  | 9.71  |
|                 | 3H   | 8.78             | 9.59  | 9.16  | 9.92  | 10.29 | 8.78           | 9.59  | 9.16  | 9.92  | 10.29 |
|                 | 4H   | 9.00             | 9.75  | 9.41  | 10.10 | 10.49 | 9.00           | 9.75  | 9.41  | 10.10 | 10.49 |
|                 | 6H   | 9.39             | 10.07 | 9.81  | 10.45 | 10.85 | 9.39           | 10.07 | 9.81  | 10.45 | 10.85 |
|                 | 8H   | 9.62             | 10.26 | 10.06 | 10.65 | 11.06 | 9.62           | 10.26 | 10.06 | 10.65 | 11.06 |
|                 | 12H  | 9.73             | 10.34 | 10.16 | 10.72 | 11.15 | 9.73           | 10.34 | 10.16 | 10.72 | 11.15 |
| 4H              | 2H   | 8.18             | 8.93  | 8.59  | 9.28  | 9.68  | 8.18           | 8.93  | 8.59  | 9.28  | 9.68  |
|                 | 3H   | 8.91             | 9.52  | 9.32  | 9.93  | 10.33 | 8.91           | 9.52  | 9.32  | 9.93  | 10.33 |
|                 | 4H   | 9.26             | 9.81  | 9.70  | 10.23 | 10.68 | 9.26           | 9.81  | 9.70  | 10.23 | 10.68 |
|                 | 6H   | 9.88             | 10.34 | 10.35 | 10.79 | 11.27 | 9.88           | 10.34 | 10.35 | 10.79 | 11.27 |
|                 | 8H   | 10.22            | 10.65 | 10.70 | 11.10 | 11.58 | 10.22          | 10.65 | 10.70 | 11.10 | 11.58 |
|                 | 12H  | 10.44            | 10.81 | 10.93 | 11.30 | 11.78 | 10.44          | 10.81 | 10.93 | 11.30 | 11.78 |
| 8H              | 4H   | 9.36             | 9.80  | 9.84  | 10.25 | 10.72 | 9.36           | 9.80  | 9.84  | 10.25 | 10.72 |
|                 | 6H   | 10.20            | 10.53 | 10.71 | 11.04 | 11.53 | 10.20          | 10.53 | 10.71 | 11.04 | 11.53 |
|                 | 8H   | 10.68            | 10.98 | 11.22 | 11.51 | 12.01 | 10.68          | 10.98 | 11.22 | 11.51 | 12.01 |
|                 | 12H  | 11.05            | 11.31 | 11.58 | 11.81 | 12.39 | 11.05          | 11.31 | 11.58 | 11.81 | 12.39 |
| 12H             | 4H   | 9.38             | 9.74  | 9.87  | 10.23 | 10.71 | 9.38           | 9.74  | 9.87  | 10.23 | 10.71 |
|                 | 6H   | 10.28            | 10.57 | 10.81 | 11.10 | 11.60 | 10.28          | 10.57 | 10.81 | 11.10 | 11.60 |
|                 | 8H   | 10.84            | 11.10 | 11.37 | 11.60 | 12.18 | 10.84          | 11.10 | 11.37 | 11.60 | 12.18 |

END OF REPORT