

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: P1221362

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-BLAK-08 (3500K\_L36\_Narrow\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221362  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS2-2436-MV-L8C5-BLAK-08 (3500K\_L36\_Narrow\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, BLACK SHADE, NARROW DISTRIBUTION.  
LIGHT LEVEL 1 - 36,000 LUMENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

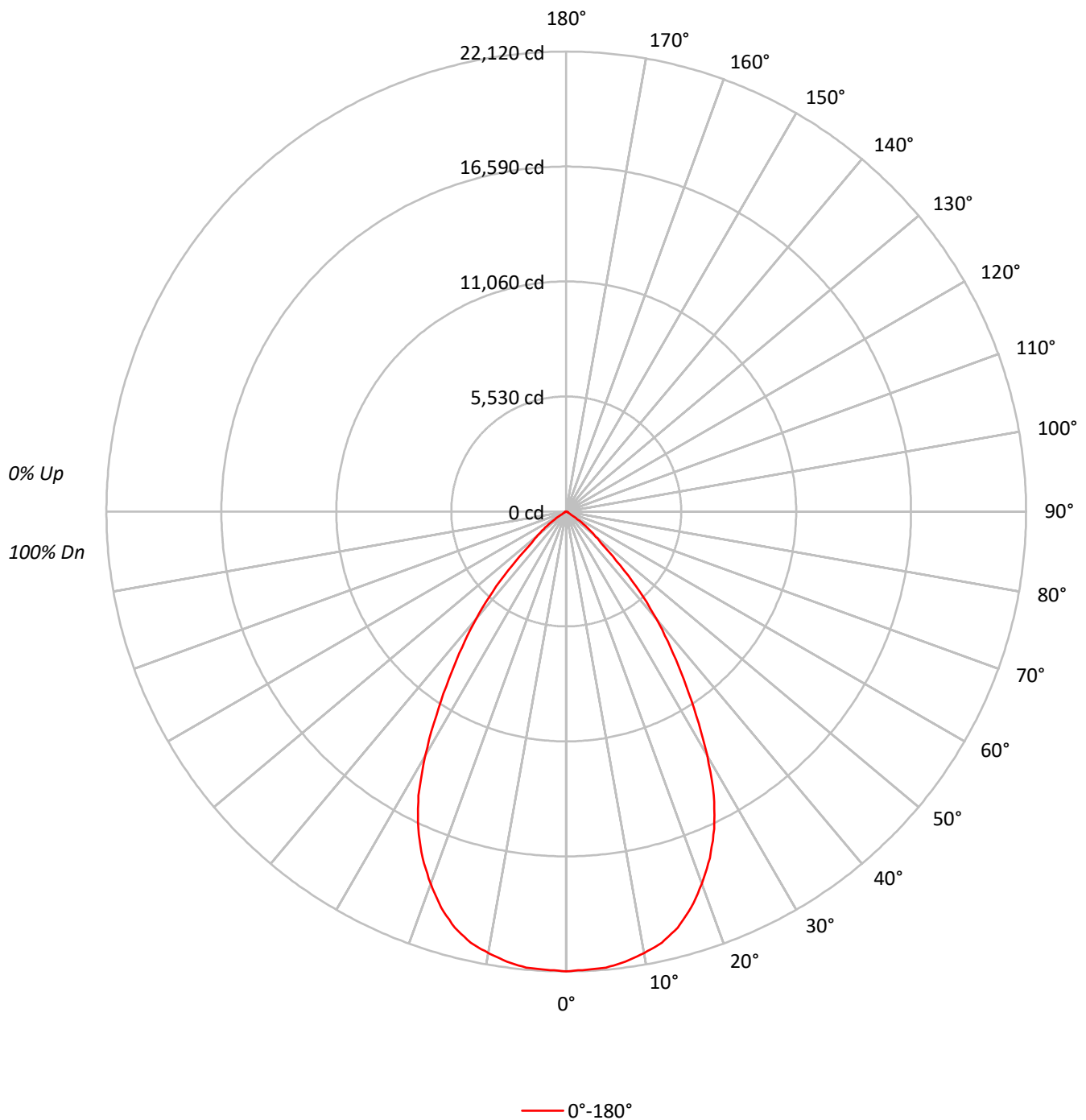
Lumens per Lamp: N/A  
Luminaire Lumens: 25413.7 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98  
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')  
CIE Type: Direct

Input Watts (W): 230.2  
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  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 100 |
| 1   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 103 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 93  |
| 2   | 107 | 102 | 97  | 94  | 105 | 100 | 96  | 93  | 97  | 93  | 91  |  | 94  | 91  | 89  |  | 85  |
| 3   | 101 | 94  | 89  | 84  | 99  | 93  | 88  | 84  | 90  | 86  | 82  |  | 88  | 84  | 81  |  | 78  |
| 4   | 95  | 87  | 81  | 77  | 93  | 86  | 80  | 76  | 84  | 79  | 75  |  | 82  | 78  | 74  |  | 72  |
| 5   | 90  | 81  | 75  | 70  | 88  | 80  | 74  | 70  | 78  | 73  | 69  |  | 76  | 72  | 68  |  | 66  |
| 6   | 85  | 75  | 69  | 64  | 83  | 74  | 68  | 64  | 73  | 68  | 64  |  | 71  | 67  | 63  |  | 61  |
| 7   | 80  | 70  | 64  | 59  | 79  | 70  | 63  | 59  | 68  | 63  | 59  |  | 67  | 62  | 58  |  | 57  |
| 8   | 76  | 66  | 59  | 55  | 75  | 65  | 59  | 55  | 64  | 58  | 54  |  | 63  | 58  | 54  |  | 52  |
| 9   | 72  | 62  | 55  | 51  | 71  | 61  | 55  | 51  | 60  | 54  | 51  |  | 59  | 54  | 50  |  | 49  |
| 10  | 68  | 58  | 52  | 47  | 67  | 57  | 51  | 47  | 56  | 51  | 47  |  | 56  | 51  | 47  |  | 46  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 127552 |
| 5°  | 121269 |
| 10° | 114501 |
| 15° | 106946 |
| 20° | 96474  |
| 25° | 84218  |
| 30° | 67503  |
| 35° | 49164  |
| 40° | 33956  |
| 45° | 18856  |
| 50° | 9392   |
| 55° | 3566   |
| 60° | 592    |
| 65° | 288    |
| 70° | 270    |
| 75° | 236    |
| 80° | 188    |
| 85° | 110    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18856 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2087.2  | 8.2       |
| 10°-20°   | 5793.6  | 22.8      |
| 20°-30°   | 7633.5  | 30.0      |
| 30°-40°   | 6175.1  | 24.3      |
| 40°-50°   | 2933.7  | 11.5      |
| 50°-60°   | 687.0   | 2.7       |
| 60°-70°   | 54.8    | 0.2       |
| 70°-80°   | 35.1    | 0.1       |
| 80°-90°   | 13.8    | 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°    | 15514.3 | 61.0      |
| 0°-40°    | 21689.3 | 85.3      |
| 0°-60°    | 25310.0 | 99.6      |
| 0°-90°    | 25413.7 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 25413.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 22120 |      |
| 5°  | 22023 | ###  |
| 15° | 20723 | 5794 |
| 25° | 16848 | 7633 |
| 35° | 9845  | 6175 |
| 45° | 3665  | 2934 |
| 55° | 651   | 687  |
| 65° | 48    | 55   |
| 75° | 34    | 35   |
| 85° | 13    | 14   |
| 90° | 0     |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 22120.1 |
| 2.5°  | 22057.5 |
| 5°    | 22022.7 |
| 7.5°  | 21846.2 |
| 10°   | 21572.4 |
| 12.5° | 21239.3 |
| 15°   | 20722.8 |
| 17.5° | 19981.2 |
| 20°   | 19069.0 |
| 22.5° | 18048.9 |
| 25°   | 16847.7 |
| 27.5° | 15390.1 |
| 30°   | 13562.2 |
| 32.5° | 11634.5 |
| 35°   | 9845.0  |
| 37.5° | 8228.3  |
| 40°   | 6725.4  |
| 42.5° | 5249.2  |
| 45°   | 3665.0  |
| 47.5° | 2279.3  |
| 50°   | 1776.8  |
| 52.5° | 1272.0  |
| 55°   | 651.1   |
| 57.5° | 269.2   |
| 60°   | 103.3   |
| 62.5° | 58.0    |
| 65°   | 47.6    |
| 67.5° | 44.1    |
| 70°   | 41.8    |
| 72.5° | 37.1    |
| 75°   | 33.7    |
| 77.5° | 29.0    |
| 80°   | 24.4    |
| 82.5° | 18.6    |
| 85°   | 12.8    |
| 87.5° | 7.0     |
| 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 | 4.04             | 5.12 | 4.41 | 5.43 | 5.75 | 4.04           | 5.12 | 4.41 | 5.43 | 5.75 |
|                 | 3H   | 4.01             | 4.95 | 4.39 | 5.28 | 5.65 | 4.01           | 4.95 | 4.39 | 5.28 | 5.65 |
|                 | 4H   | 4.00             | 4.87 | 4.41 | 5.23 | 5.62 | 4.00           | 4.87 | 4.41 | 5.23 | 5.62 |
|                 | 6H   | 3.99             | 4.78 | 4.40 | 5.16 | 5.55 | 3.99           | 4.78 | 4.40 | 5.16 | 5.55 |
|                 | 8H   | 3.96             | 4.71 | 4.40 | 5.11 | 5.51 | 3.96           | 4.71 | 4.40 | 5.11 | 5.51 |
|                 | 12H  | 3.93             | 4.65 | 4.37 | 5.03 | 5.46 | 3.93           | 4.65 | 4.37 | 5.03 | 5.46 |
| 4H              | 2H   | 3.82             | 4.69 | 4.22 | 5.04 | 5.43 | 3.82           | 4.69 | 4.22 | 5.04 | 5.43 |
|                 | 3H   | 3.83             | 4.53 | 4.25 | 4.94 | 5.35 | 3.83           | 4.53 | 4.25 | 4.94 | 5.35 |
|                 | 4H   | 3.85             | 4.47 | 4.29 | 4.90 | 5.35 | 3.85           | 4.47 | 4.29 | 4.90 | 5.35 |
|                 | 6H   | 3.88             | 4.41 | 4.35 | 4.86 | 5.34 | 3.88           | 4.41 | 4.35 | 4.86 | 5.34 |
|                 | 8H   | 3.86             | 4.36 | 4.34 | 4.81 | 5.29 | 3.86           | 4.36 | 4.34 | 4.81 | 5.29 |
|                 | 12H  | 3.84             | 4.27 | 4.33 | 4.76 | 5.24 | 3.84           | 4.27 | 4.33 | 4.76 | 5.24 |
| 8H              | 4H   | 3.74             | 4.24 | 4.22 | 4.69 | 5.16 | 3.74           | 4.24 | 4.22 | 4.69 | 5.16 |
|                 | 6H   | 3.79             | 4.19 | 4.30 | 4.69 | 5.18 | 3.79           | 4.19 | 4.30 | 4.69 | 5.18 |
|                 | 8H   | 3.79             | 4.15 | 4.33 | 4.67 | 5.17 | 3.79           | 4.15 | 4.33 | 4.67 | 5.17 |
|                 | 12H  | 3.80             | 4.11 | 4.32 | 4.61 | 5.19 | 3.80           | 4.11 | 4.32 | 4.61 | 5.19 |
| 12H             | 4H   | 3.69             | 4.12 | 4.18 | 4.61 | 5.09 | 3.69           | 4.12 | 4.18 | 4.61 | 5.09 |
|                 | 6H   | 3.74             | 4.10 | 4.27 | 4.62 | 5.12 | 3.74           | 4.10 | 4.27 | 4.62 | 5.12 |
|                 | 8H   | 3.77             | 4.08 | 4.29 | 4.58 | 5.16 | 3.77           | 4.08 | 4.29 | 4.58 | 5.16 |