

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: P1221365

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-BLAK-08 (4000K\_L24\_Narrow\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221365  
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 (4000K\_L24\_Narrow\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, BLACK SHADE, NARROW DISTRIBUTION.  
LIGHT LEVEL 1 - 24,000 LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

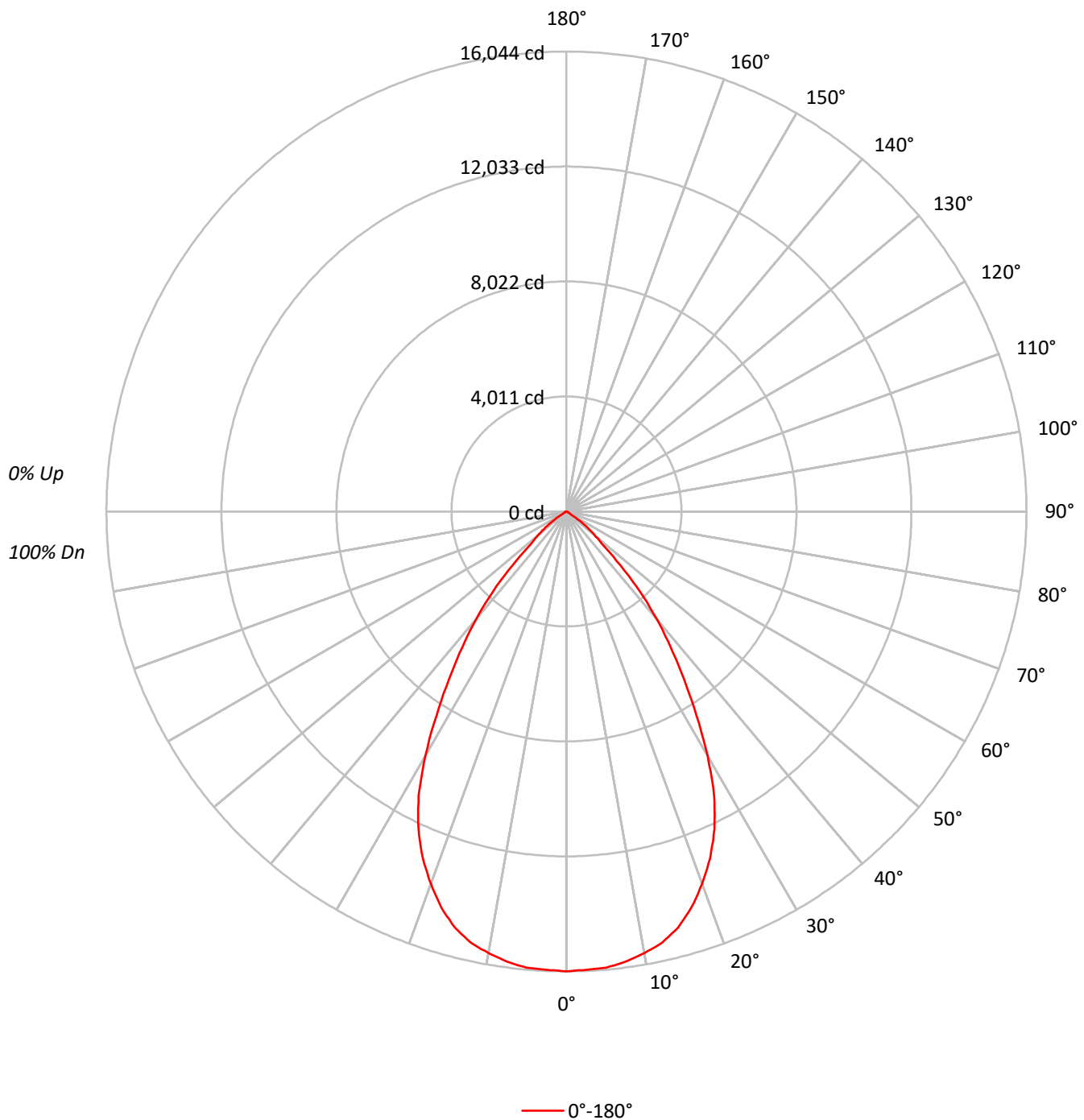
Lumens per Lamp: N/A  
Luminaire Lumens: 18432.9 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98  
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')  
CIE Type: Direct

Input Watts (W): 154.6  
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  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 113 | 110 | 107 | 105 |  | 111 | 108 | 106 | 103 |  | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  | 96  | 94  |
| 2   | 107 | 102 | 97  | 94  |  | 105 | 100 | 96  | 93  |  | 97  | 93  | 91  |  | 94  | 91  | 89  |  | 91  | 89  | 87  |
| 3   | 101 | 94  | 89  | 84  |  | 99  | 93  | 88  | 84  |  | 90  | 86  | 82  |  | 88  | 84  | 81  |  | 85  | 82  | 80  |
| 4   | 95  | 87  | 81  | 77  |  | 93  | 86  | 80  | 76  |  | 84  | 79  | 75  |  | 82  | 78  | 74  |  | 80  | 76  | 73  |
| 5   | 90  | 81  | 75  | 70  |  | 88  | 80  | 74  | 70  |  | 78  | 73  | 69  |  | 76  | 72  | 68  |  | 75  | 71  | 68  |
| 6   | 85  | 75  | 69  | 64  |  | 83  | 74  | 68  | 64  |  | 73  | 68  | 64  |  | 71  | 67  | 63  |  | 70  | 66  | 63  |
| 7   | 80  | 70  | 64  | 59  |  | 79  | 70  | 63  | 59  |  | 68  | 63  | 59  |  | 67  | 62  | 58  |  | 66  | 61  | 58  |
| 8   | 76  | 66  | 59  | 55  |  | 75  | 65  | 59  | 55  |  | 64  | 58  | 54  |  | 63  | 58  | 54  |  | 62  | 57  | 54  |
| 9   | 72  | 62  | 55  | 51  |  | 71  | 61  | 55  | 51  |  | 60  | 54  | 51  |  | 59  | 54  | 50  |  | 58  | 54  | 50  |
| 10  | 68  | 58  | 52  | 47  |  | 67  | 57  | 51  | 47  |  | 56  | 51  | 47  |  | 56  | 51  | 47  |  | 55  | 50  | 47  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 92515 |
| 5°  | 87957 |
| 10° | 83049 |
| 15° | 77570 |
| 20° | 69974 |
| 25° | 61085 |
| 30° | 48961 |
| 35° | 35659 |
| 40° | 24629 |
| 45° | 13677 |
| 50° | 6812  |
| 55° | 2586  |
| 60° | 429   |
| 65° | 209   |
| 70° | 196   |
| 75° | 171   |
| 80° | 136   |
| 85° | 80    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 13677 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1513.9  | 8.2       |
| 10°-20°   | 4202.2  | 22.8      |
| 20°-30°   | 5536.7  | 30.0      |
| 30°-40°   | 4478.9  | 24.3      |
| 40°-50°   | 2127.8  | 11.5      |
| 50°-60°   | 498.3   | 2.7       |
| 60°-70°   | 39.8    | 0.2       |
| 70°-80°   | 25.4    | 0.1       |
| 80°-90°   | 10.0    | 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°    | 11252.7 | 61.0      |
| 0°-40°    | 15731.6 | 85.3      |
| 0°-60°    | 18357.7 | 99.6      |
| 0°-90°    | 18432.9 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 18432.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 16044 |      |
| 5°  | 15973 | ###  |
| 15° | 15031 | 4202 |
| 25° | 12220 | 5537 |
| 35° | 7141  | 4479 |
| 45° | 2658  | 2128 |
| 55° | 472   | 498  |
| 65° | 34    | 40   |
| 75° | 24    | 25   |
| 85° | 9     | 10   |
| 90° | 0     |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°    |         |
|-------|---------|
| 0°    | 16044.0 |
| 2.5°  | 15998.6 |
| 5°    | 15973.3 |
| 7.5°  | 15845.4 |
| 10°   | 15646.7 |
| 12.5° | 15405.1 |
| 15°   | 15030.6 |
| 17.5° | 14492.7 |
| 20°   | 13831.0 |
| 22.5° | 13091.1 |
| 25°   | 12219.9 |
| 27.5° | 11162.6 |
| 30°   | 9836.9  |
| 32.5° | 8438.7  |
| 35°   | 7140.7  |
| 37.5° | 5968.1  |
| 40°   | 4878.0  |
| 42.5° | 3807.3  |
| 45°   | 2658.3  |
| 47.5° | 1653.2  |
| 50°   | 1288.7  |
| 52.5° | 922.6   |
| 55°   | 472.2   |
| 57.5° | 195.3   |
| 60°   | 74.9    |
| 62.5° | 42.1    |
| 65°   | 34.5    |
| 67.5° | 32.0    |
| 70°   | 30.3    |
| 72.5° | 26.9    |
| 75°   | 24.4    |
| 77.5° | 21.0    |
| 80°   | 17.7    |
| 82.5° | 13.5    |
| 85°   | 9.3     |
| 87.5° | 5.1     |
| 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 | 2.93             | 4.01 | 3.29 | 4.32 | 4.63 | 2.93           | 4.01 | 3.29 | 4.32 | 4.63 |
|                 | 3H   | 2.90             | 3.84 | 3.28 | 4.17 | 4.54 | 2.90           | 3.84 | 3.28 | 4.17 | 4.54 |
|                 | 4H   | 2.89             | 3.76 | 3.30 | 4.11 | 4.50 | 2.89           | 3.76 | 3.30 | 4.11 | 4.50 |
|                 | 6H   | 2.87             | 3.67 | 3.29 | 4.04 | 4.44 | 2.87           | 3.67 | 3.29 | 4.04 | 4.44 |
|                 | 8H   | 2.85             | 3.60 | 3.28 | 3.99 | 4.40 | 2.85           | 3.60 | 3.28 | 3.99 | 4.40 |
|                 | 12H  | 2.82             | 3.53 | 3.25 | 3.91 | 4.35 | 2.82           | 3.53 | 3.25 | 3.91 | 4.35 |
| 4H              | 2H   | 2.70             | 3.57 | 3.11 | 3.93 | 4.31 | 2.70           | 3.57 | 3.11 | 3.93 | 4.31 |
|                 | 3H   | 2.72             | 3.42 | 3.13 | 3.83 | 4.23 | 2.72           | 3.42 | 3.13 | 3.83 | 4.23 |
|                 | 4H   | 2.74             | 3.36 | 3.17 | 3.78 | 4.23 | 2.74           | 3.36 | 3.17 | 3.78 | 4.23 |
|                 | 6H   | 2.76             | 3.30 | 3.23 | 3.75 | 4.22 | 2.76           | 3.30 | 3.23 | 3.75 | 4.22 |
|                 | 8H   | 2.75             | 3.25 | 3.22 | 3.70 | 4.17 | 2.75           | 3.25 | 3.22 | 3.70 | 4.17 |
|                 | 12H  | 2.72             | 3.16 | 3.21 | 3.64 | 4.12 | 2.72           | 3.16 | 3.21 | 3.64 | 4.12 |
| 8H              | 4H   | 2.63             | 3.12 | 3.10 | 3.57 | 4.05 | 2.63           | 3.12 | 3.10 | 3.57 | 4.05 |
|                 | 6H   | 2.68             | 3.08 | 3.19 | 3.58 | 4.06 | 2.68           | 3.08 | 3.19 | 3.58 | 4.06 |
|                 | 8H   | 2.68             | 3.04 | 3.21 | 3.56 | 4.06 | 2.68           | 3.04 | 3.21 | 3.56 | 4.06 |
|                 | 12H  | 2.68             | 3.00 | 3.20 | 3.49 | 4.07 | 2.68           | 3.00 | 3.20 | 3.49 | 4.07 |
| 12H             | 4H   | 2.57             | 3.01 | 3.06 | 3.49 | 3.97 | 2.57           | 3.01 | 3.06 | 3.49 | 3.97 |
|                 | 6H   | 2.62             | 2.98 | 3.15 | 3.50 | 4.00 | 2.62           | 2.98 | 3.15 | 3.50 | 4.00 |
|                 | 8H   | 2.65             | 2.97 | 3.17 | 3.47 | 4.04 | 2.65           | 2.97 | 3.17 | 3.47 | 4.04 |

END OF REPORT