

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: P1221351

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-BLAK-08 (3000K\_L32\_Wide\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221351  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-24)  
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 (3000K\_L32\_Wide\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, BLACK SHADE, WIDE DISTRIBUTION.  
LIGHT LEVEL 2 - 32,000 LUMENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

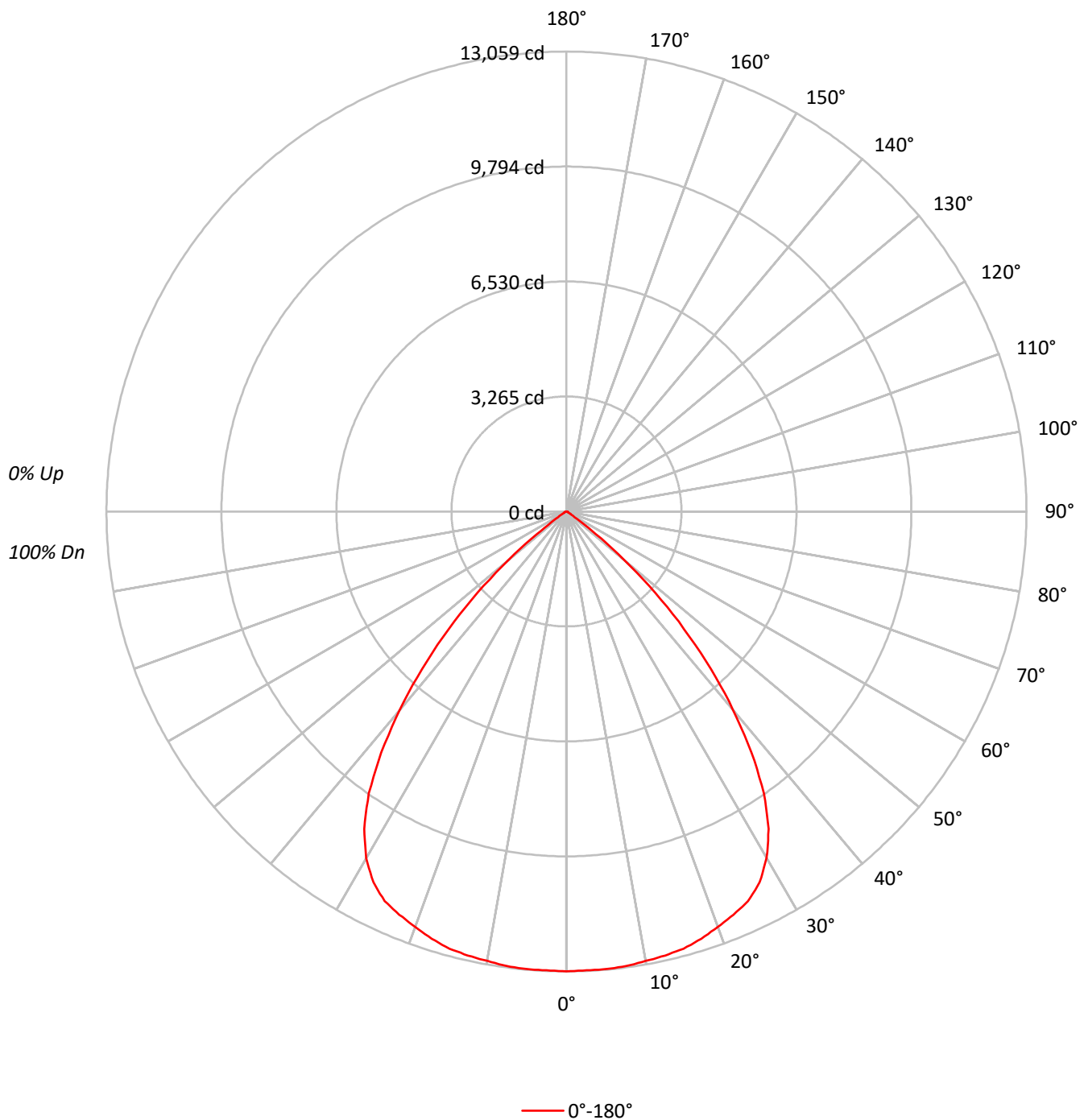
Lumens per Lamp: N/A  
Luminaire Lumens: 20755.4 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19  
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')  
CIE Type: Direct

Input Watts (W): 193.1  
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 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 99  | 100 | 98  | 96  | 96  | 95  | 94  |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 95  | 91  | 95  | 92  | 89  | 92  | 90  | 87  | 90  | 87  | 85  |
| 3   | 100 | 92  | 86  | 82  | 97  | 91  | 85  | 81  | 88  | 84  | 80  | 86  | 82  | 79  | 83  | 80  | 77  |
| 4   | 93  | 85  | 78  | 73  | 91  | 83  | 78  | 73  | 81  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 70  |
| 5   | 88  | 78  | 71  | 66  | 86  | 77  | 71  | 66  | 75  | 70  | 65  | 73  | 68  | 65  | 72  | 67  | 64  |
| 6   | 82  | 72  | 65  | 60  | 81  | 71  | 65  | 60  | 69  | 64  | 59  | 68  | 63  | 59  | 67  | 62  | 58  |
| 7   | 77  | 66  | 60  | 55  | 76  | 66  | 59  | 54  | 64  | 58  | 54  | 63  | 58  | 54  | 62  | 57  | 54  |
| 8   | 73  | 62  | 55  | 50  | 71  | 61  | 54  | 50  | 60  | 54  | 50  | 59  | 53  | 49  | 58  | 53  | 49  |
| 9   | 68  | 57  | 50  | 46  | 67  | 57  | 50  | 46  | 56  | 50  | 46  | 55  | 49  | 45  | 54  | 49  | 45  |
| 10  | 64  | 53  | 47  | 42  | 63  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 42  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 75304 |
| 5°  | 71836 |
| 10° | 68798 |
| 15° | 66320 |
| 20° | 63530 |
| 25° | 61023 |
| 30° | 56557 |
| 35° | 48824 |
| 40° | 37147 |
| 45° | 24317 |
| 50° | 11263 |
| 55° | 2036  |
| 60° | 490   |
| 65° | 287   |
| 70° | 271   |
| 75° | 255   |
| 80° | 217   |
| 85° | 133   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24317 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1242.6  | 6.0       |
| 10°-20°   | 3626.0  | 17.5      |
| 20°-30°   | 5589.4  | 26.9      |
| 30°-40°   | 5989.3  | 28.9      |
| 40°-50°   | 3618.0  | 17.4      |
| 50°-60°   | 583.0   | 2.8       |
| 60°-70°   | 52.4    | 0.3       |
| 70°-80°   | 37.9    | 0.2       |
| 80°-90°   | 16.7    | 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°    | 10458.0 | 50.4      |
| 0°-40°    | 16447.3 | 79.2      |
| 0°-60°    | 20648.3 | 99.5      |
| 0°-90°    | 20755.4 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 20755.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 13059 |      |
| 5°  | 13046 | ###  |
| 15° | 12851 | 3626 |
| 25° | 12208 | 5589 |
| 35° | 9777  | 5989 |
| 45° | 4726  | 3618 |
| 55° | 372   | 583  |
| 65° | 47    | 52   |
| 75° | 36    | 38   |
| 85° | 16    | 17   |
| 90° | 0     |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 13059.3 |
| 2.5°  | 13042.0 |
| 5°    | 13045.6 |
| 7.5°  | 13020.1 |
| 10°   | 12961.8 |
| 12.5° | 12915.3 |
| 15°   | 12850.7 |
| 17.5° | 12721.3 |
| 20°   | 12557.3 |
| 22.5° | 12393.3 |
| 25°   | 12207.5 |
| 27.5° | 11874.1 |
| 30°   | 11363.0 |
| 32.5° | 10683.4 |
| 35°   | 9776.9  |
| 37.5° | 8630.9  |
| 40°   | 7357.3  |
| 42.5° | 6077.3  |
| 45°   | 4726.3  |
| 47.5° | 3426.3  |
| 50°   | 2130.8  |
| 52.5° | 1047.7  |
| 55°   | 371.7   |
| 57.5° | 146.7   |
| 60°   | 85.6    |
| 62.5° | 57.4    |
| 65°   | 47.4    |
| 67.5° | 43.7    |
| 70°   | 41.9    |
| 72.5° | 39.2    |
| 75°   | 36.4    |
| 77.5° | 32.8    |
| 80°   | 28.2    |
| 82.5° | 21.9    |
| 85°   | 15.5    |
| 87.5° | 10.0    |
| 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 | 0.54             | 1.70 | 0.91 | 2.01 | 2.32 | 0.54           | 1.70 | 0.91 | 2.01 | 2.32 |
|                 | 3H   | 0.83             | 1.84 | 1.21 | 2.17 | 2.54 | 0.83           | 1.84 | 1.21 | 2.17 | 2.54 |
|                 | 4H   | 1.04             | 1.97 | 1.44 | 2.32 | 2.71 | 1.04           | 1.97 | 1.44 | 2.32 | 2.71 |
|                 | 6H   | 1.24             | 2.09 | 1.66 | 2.47 | 2.86 | 1.24           | 2.09 | 1.66 | 2.47 | 2.86 |
|                 | 8H   | 1.30             | 2.11 | 1.74 | 2.50 | 2.91 | 1.30           | 2.11 | 1.74 | 2.50 | 2.91 |
|                 | 12H  | 1.33             | 2.10 | 1.77 | 2.48 | 2.91 | 1.33           | 2.10 | 1.77 | 2.48 | 2.91 |
| 4H              | 2H   | 0.44             | 1.37 | 0.84 | 1.72 | 2.11 | 0.44           | 1.37 | 0.84 | 1.72 | 2.11 |
|                 | 3H   | 0.88             | 1.63 | 1.29 | 2.04 | 2.44 | 0.88           | 1.63 | 1.29 | 2.04 | 2.44 |
|                 | 4H   | 1.19             | 1.86 | 1.63 | 2.28 | 2.73 | 1.19           | 1.86 | 1.63 | 2.28 | 2.73 |
|                 | 6H   | 1.53             | 2.10 | 2.00 | 2.55 | 3.02 | 1.53           | 2.10 | 2.00 | 2.55 | 3.02 |
|                 | 8H   | 1.63             | 2.17 | 2.11 | 2.61 | 3.09 | 1.63           | 2.17 | 2.11 | 2.61 | 3.09 |
|                 | 12H  | 1.69             | 2.16 | 2.18 | 2.65 | 3.12 | 1.69           | 2.16 | 2.18 | 2.65 | 3.12 |
| 8H              | 4H   | 1.22             | 1.76 | 1.70 | 2.21 | 2.68 | 1.22           | 1.76 | 1.70 | 2.21 | 2.68 |
|                 | 6H   | 1.65             | 2.08 | 2.15 | 2.58 | 3.06 | 1.65           | 2.08 | 2.15 | 2.58 | 3.06 |
|                 | 8H   | 1.81             | 2.20 | 2.33 | 2.71 | 3.21 | 1.81           | 2.20 | 2.33 | 2.71 | 3.21 |
|                 | 12H  | 1.93             | 2.27 | 2.45 | 2.77 | 3.34 | 1.93           | 2.27 | 2.45 | 2.77 | 3.34 |
| 12H             | 4H   | 1.20             | 1.67 | 1.69 | 2.15 | 2.63 | 1.20           | 1.67 | 1.69 | 2.15 | 2.63 |
|                 | 6H   | 1.64             | 2.03 | 2.17 | 2.55 | 3.04 | 1.64           | 2.03 | 2.17 | 2.55 | 3.04 |
|                 | 8H   | 1.84             | 2.18 | 2.36 | 2.68 | 3.26 | 1.84           | 2.18 | 2.36 | 2.68 | 3.26 |

END OF REPORT