

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: P1221472

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (6500K\_L24\_Medium\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221472  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (6500K\_L24\_Medium\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, TRANSLUCENT WHITE SHADE, MEDIUM DISTRIBUTION.  
LIGHT LEVEL 1 - 24,000 LUMENS  
Light Source: 6500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

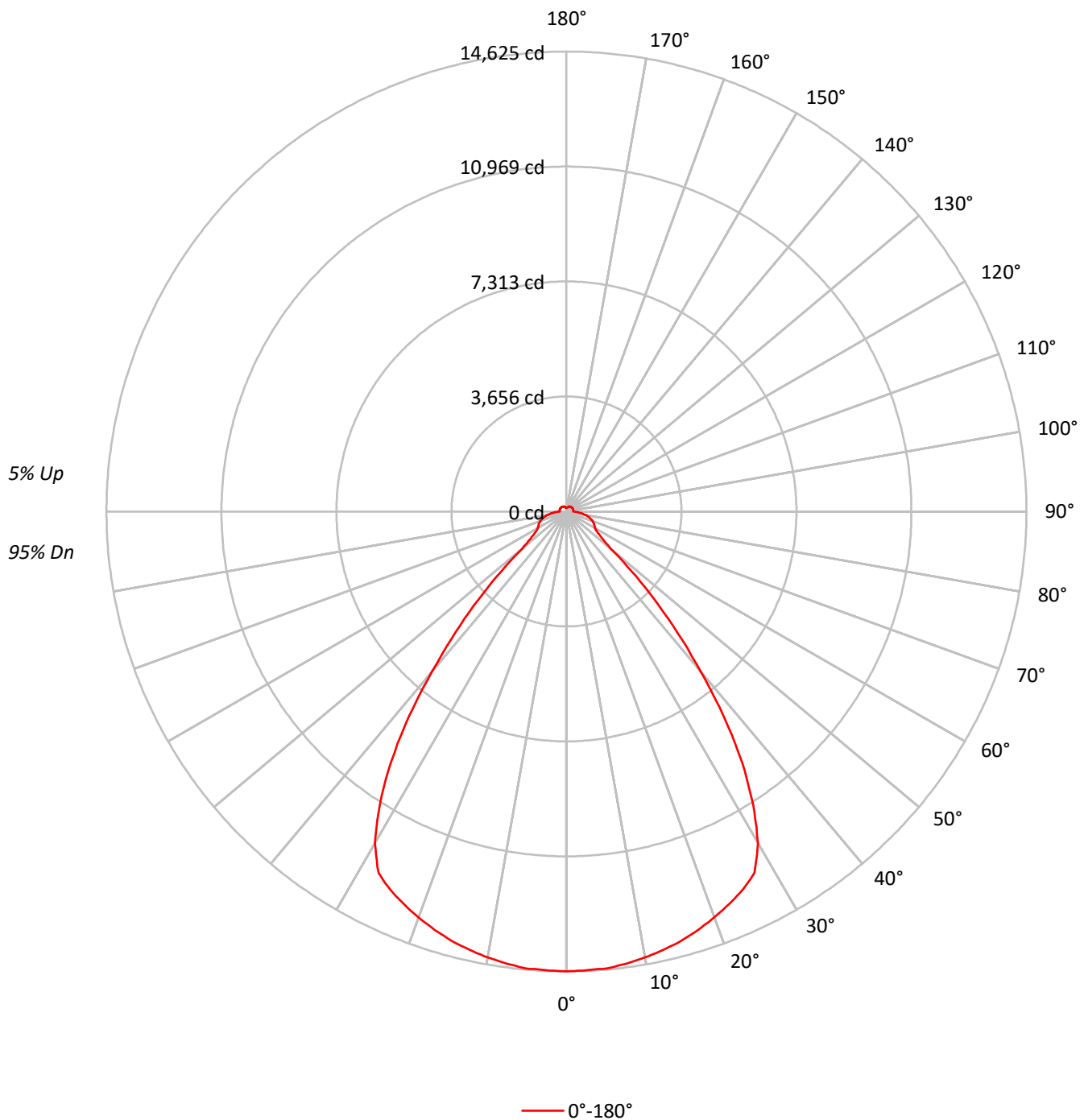
Lumens per Lamp: N/A  
Luminaire Lumens: 25138.3 lumens  
Efficiency: N/A  
Efficacy: 162.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12  
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')  
CIE Type: Direct

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   | 118 | 118 | 118 | 118 |  | 115 | 115 | 115 | 115 |  | 108 | 108 | 108 |  | 103 | 103 | 103 |  | 97 | 97 | 97 |
| 1   | 110 | 106 | 103 | 100 |  | 107 | 103 | 100 | 97  |  | 98  | 96  | 93  |  | 94  | 92  | 90  |  | 89 | 88 | 86 |
| 2   | 102 | 96  | 90  | 86  |  | 99  | 94  | 89  | 85  |  | 89  | 85  | 82  |  | 85  | 82  | 79  |  | 82 | 79 | 77 |
| 3   | 95  | 87  | 81  | 75  |  | 93  | 85  | 79  | 74  |  | 82  | 77  | 73  |  | 78  | 74  | 71  |  | 75 | 72 | 69 |
| 4   | 89  | 79  | 72  | 67  |  | 87  | 78  | 71  | 66  |  | 75  | 69  | 65  |  | 72  | 67  | 64  |  | 70 | 66 | 62 |
| 5   | 83  | 73  | 66  | 60  |  | 81  | 72  | 65  | 60  |  | 69  | 63  | 59  |  | 67  | 62  | 58  |  | 64 | 60 | 57 |
| 6   | 78  | 67  | 60  | 54  |  | 76  | 66  | 59  | 54  |  | 64  | 58  | 53  |  | 62  | 56  | 52  |  | 60 | 55 | 52 |
| 7   | 73  | 62  | 55  | 49  |  | 71  | 61  | 54  | 49  |  | 59  | 53  | 48  |  | 57  | 52  | 48  |  | 56 | 51 | 47 |
| 8   | 69  | 57  | 50  | 45  |  | 67  | 57  | 50  | 45  |  | 55  | 49  | 44  |  | 53  | 48  | 44  |  | 52 | 47 | 43 |
| 9   | 65  | 53  | 46  | 42  |  | 63  | 53  | 46  | 41  |  | 51  | 45  | 41  |  | 50  | 44  | 40  |  | 49 | 44 | 40 |
| 10  | 61  | 50  | 43  | 38  |  | 60  | 49  | 43  | 38  |  | 48  | 42  | 38  |  | 47  | 41  | 37  |  | 46 | 41 | 37 |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 84332 |
| 5°  | 80307 |
| 10° | 76436 |
| 15° | 72942 |
| 20° | 69513 |
| 25° | 66333 |
| 30° | 60611 |
| 35° | 48556 |
| 40° | 33453 |
| 45° | 20219 |
| 50° | 9656  |
| 55° | 6886  |
| 60° | 5999  |
| 65° | 5902  |
| 70° | 5696  |
| 75° | 5293  |
| 80° | 4548  |
| 85° | 3427  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 20219 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1386.0  | 5.5       |
| 10°-20°   | 3989.2  | 15.9      |
| 20°-30°   | 6078.4  | 24.2      |
| 30°-40°   | 5963.7  | 23.7      |
| 40°-50°   | 3080.9  | 12.3      |
| 50°-60°   | 1173.6  | 4.7       |
| 60°-70°   | 961.8   | 3.8       |
| 70°-80°   | 790.7   | 3.1       |
| 80°-90°   | 433.6   | 1.7       |
| 90°-100°  | 234.1   | 0.9       |
| 100°-110° | 234.6   | 0.9       |
| 110°-120° | 219.6   | 0.9       |
| 120°-130° | 191.5   | 0.8       |
| 130°-140° | 156.0   | 0.6       |
| 140°-150° | 117.5   | 0.5       |
| 150°-160° | 77.4    | 0.3       |
| 160°-170° | 38.7    | 0.2       |
| 170°-180° | 11.1    | 0.0       |
| 0°-30°    | 11453.6 | 45.6      |
| 0°-40°    | 17417.3 | 69.3      |
| 0°-60°    | 21671.8 | 86.2      |
| 0°-90°    | 23857.9 | 94.9      |
| 90°-120°  | 688.3   | 2.7       |
| 90°-150°  | 1153.3  | 4.6       |
| 90°-180°  | 1280.0  | 5.1       |
| 0°-180°   | 25138.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 14625 |      |
| 5°   | 14584 | ###  |
| 15°  | 14134 | 3989 |
| 25°  | 13270 | 6078 |
| 35°  | 9723  | 5964 |
| 45°  | 3930  | 3081 |
| 55°  | 1257  | 1174 |
| 65°  | 975   | 962  |
| 75°  | 756   | 791  |
| 85°  | 398   | 364  |
| 90°  | 209   | 127  |
| 95°  | 215   | 176  |
| 105° | 222   | 235  |
| 115° | 222   | 220  |
| 125° | 213   | 191  |
| 135° | 202   | 156  |
| 145° | 186   | 117  |
| 155° | 167   | 77   |
| 165° | 135   | 39   |
| 175° | 115   | 11   |
| 180° | 115   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 14624.9 |
| 2.5°   | 14601.5 |
| 5°     | 14583.9 |
| 7.5°   | 14509.5 |
| 10°    | 14400.8 |
| 12.5°  | 14274.4 |
| 15°    | 14133.9 |
| 17.5°  | 13947.4 |
| 20°    | 13739.9 |
| 22.5°  | 13514.9 |
| 25°    | 13269.8 |
| 27.5°  | 12947.8 |
| 30°    | 12177.4 |
| 32.5°  | 11050.7 |
| 35°    | 9723.2  |
| 37.5°  | 8232.6  |
| 40°    | 6625.7  |
| 42.5°  | 5212.1  |
| 45°    | 3929.8  |
| 47.5°  | 2807.2  |
| 50°    | 1826.9  |
| 52.5°  | 1450.4  |
| 55°    | 1257.2  |
| 57.5°  | 1115.9  |
| 60°    | 1047.3  |
| 62.5°  | 1008.0  |
| 65°    | 975.3   |
| 67.5°  | 932.7   |
| 70°    | 880.8   |
| 72.5°  | 822.3   |
| 75°    | 756.2   |
| 77.5°  | 679.2   |
| 80°    | 591.4   |
| 82.5°  | 496.9   |
| 85°    | 398.2   |
| 87.5°  | 296.1   |
| 90°    | 209.1   |
| 92.5°  | 211.6   |
| 95°    | 215.0   |
| 97.5°  | 217.5   |
| 100°   | 219.2   |
| 102.5° | 220.8   |
| 105°   | 222.5   |
| 107.5° | 222.5   |
| 110°   | 223.3   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 222.5 |
| 115°   | 221.7 |
| 117.5° | 220.0 |
| 120°   | 218.3 |
| 122.5° | 215.8 |
| 125°   | 213.3 |
| 127.5° | 210.8 |
| 130°   | 208.3 |
| 132.5° | 204.1 |
| 135°   | 201.6 |
| 137.5° | 198.2 |
| 140°   | 194.1 |
| 142.5° | 190.7 |
| 145°   | 186.5 |
| 147.5° | 183.2 |
| 150°   | 179.0 |
| 152.5° | 173.2 |
| 155°   | 167.3 |
| 157.5° | 159.8 |
| 160°   | 152.2 |
| 162.5° | 143.0 |
| 165°   | 134.7 |
| 167.5° | 126.3 |
| 170°   | 117.9 |
| 172.5° | 115.4 |
| 175°   | 115.4 |
| 177.5° | 114.6 |
| 180°   | 114.6 |

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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 | 13.80            | 14.98 | 14.25 | 15.41 | 15.85 | 13.80          | 14.98 | 14.25 | 15.41 | 15.85 |
|                 | 3H   | 16.06            | 17.12 | 16.53 | 17.56 | 18.05 | 16.06          | 17.12 | 16.53 | 17.56 | 18.05 |
|                 | 4H   | 17.03            | 18.02 | 17.52 | 18.48 | 18.99 | 17.03          | 18.02 | 17.52 | 18.48 | 18.99 |
|                 | 6H   | 17.82            | 18.74 | 18.33 | 19.21 | 19.73 | 17.82          | 18.74 | 18.33 | 19.21 | 19.73 |
|                 | 8H   | 18.11            | 18.98 | 18.63 | 19.47 | 20.00 | 18.11          | 18.98 | 18.63 | 19.47 | 20.00 |
|                 | 12H  | 18.33            | 19.16 | 18.85 | 19.64 | 20.20 | 18.33          | 19.16 | 18.85 | 19.64 | 20.20 |
| 4H              | 2H   | 14.42            | 15.41 | 14.91 | 15.86 | 16.37 | 14.42          | 15.41 | 14.91 | 15.86 | 16.37 |
|                 | 3H   | 16.89            | 17.71 | 17.39 | 18.21 | 18.74 | 16.89          | 17.71 | 17.39 | 18.21 | 18.74 |
|                 | 4H   | 17.98            | 18.72 | 18.50 | 19.24 | 19.80 | 17.98          | 18.72 | 18.50 | 19.24 | 19.80 |
|                 | 6H   | 18.91            | 19.55 | 19.46 | 20.09 | 20.68 | 18.91          | 19.55 | 19.46 | 20.09 | 20.68 |
|                 | 8H   | 19.26            | 19.86 | 19.81 | 20.40 | 20.99 | 19.26          | 19.86 | 19.81 | 20.40 | 20.99 |
|                 | 12H  | 19.53            | 20.07 | 20.10 | 20.64 | 21.23 | 19.53          | 20.07 | 20.10 | 20.64 | 21.23 |
| 8H              | 4H   | 18.32            | 18.92 | 18.87 | 19.46 | 20.05 | 18.32          | 18.92 | 18.87 | 19.46 | 20.05 |
|                 | 6H   | 19.38            | 19.88 | 19.97 | 20.47 | 21.06 | 19.38          | 19.88 | 19.97 | 20.47 | 21.06 |
|                 | 8H   | 19.82            | 20.27 | 20.43 | 20.87 | 21.48 | 19.82          | 20.27 | 20.43 | 20.87 | 21.48 |
|                 | 12H  | 20.21            | 20.60 | 20.80 | 21.18 | 21.86 | 20.21          | 20.60 | 20.80 | 21.18 | 21.86 |
| 12H             | 4H   | 18.35            | 18.88 | 18.92 | 19.45 | 20.05 | 18.35          | 18.88 | 18.92 | 19.45 | 20.05 |
|                 | 6H   | 19.45            | 19.90 | 20.06 | 20.50 | 21.11 | 19.45          | 19.90 | 20.06 | 20.50 | 21.11 |
|                 | 8H   | 19.96            | 20.35 | 20.55 | 20.93 | 21.62 | 19.96          | 20.35 | 20.55 | 20.93 | 21.62 |