

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: P1221474

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

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221474  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-32)  
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\_Wide\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, TRANSLUCENT WHITE SHADE, WIDE DISTRIBUTION.  
LIGHT LEVEL 1 - 24,000 LUMENS  
Light Source: 6500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

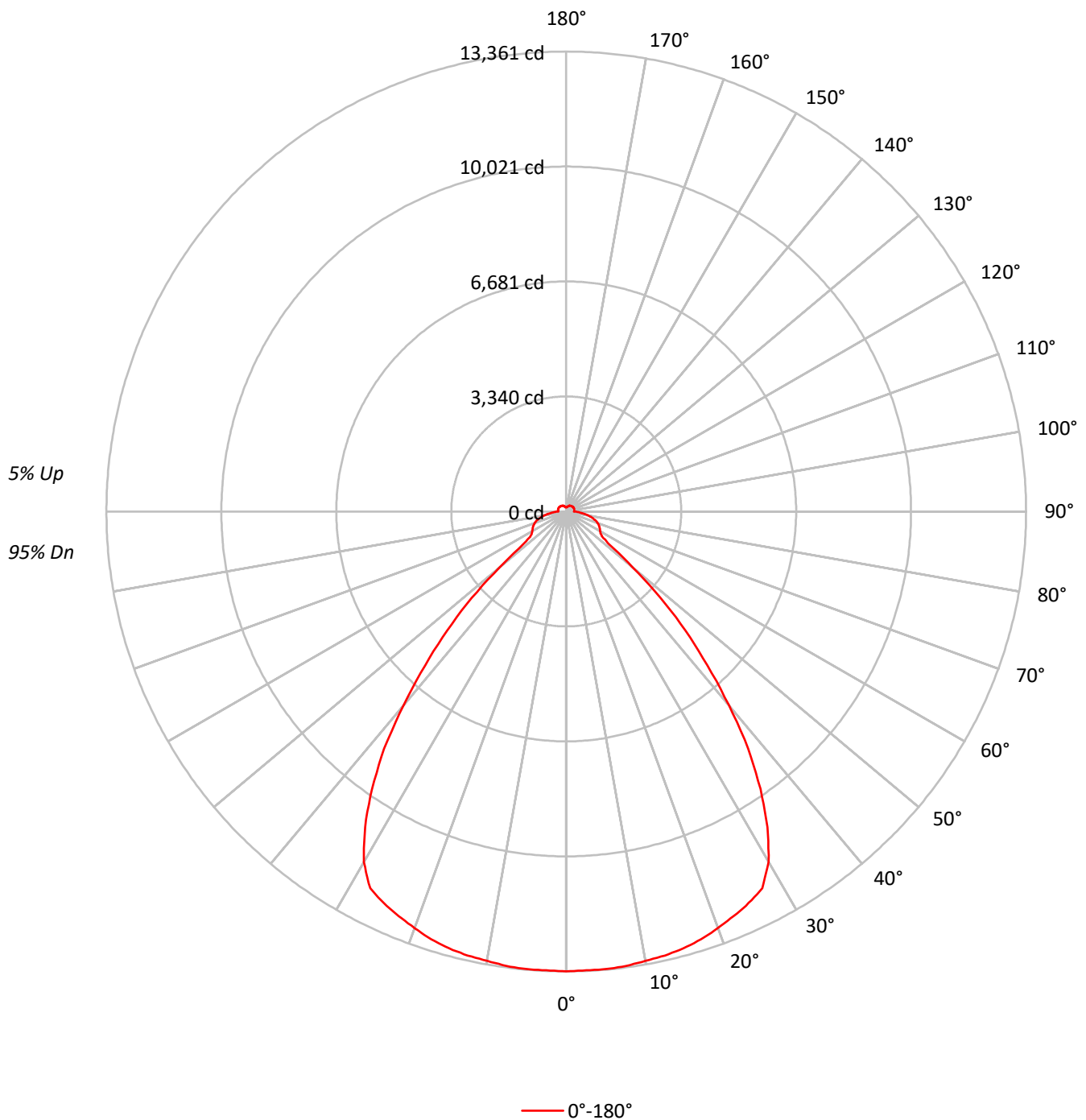
Lumens per Lamp: N/A  
Luminaire Lumens: 25634.1 lumens  
Efficiency: N/A  
Efficacy: 165.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.18  
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')  
CIE Type: Direct

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 |  | 114 | 114 | 114 | 114 |  | 108 | 108 | 108 |  | 102 | 102 | 102 |  | 97 | 97 | 97 |
| 1   | 110 | 106 | 102 | 99  |  | 106 | 103 | 100 | 97  |  | 98  | 95  | 93  |  | 93  | 91  | 89  |  | 89 | 87 | 86 |
| 2   | 102 | 95  | 90  | 85  |  | 99  | 93  | 88  | 84  |  | 89  | 84  | 81  |  | 85  | 81  | 78  |  | 81 | 78 | 76 |
| 3   | 95  | 86  | 79  | 74  |  | 92  | 84  | 78  | 73  |  | 81  | 75  | 71  |  | 77  | 73  | 69  |  | 74 | 71 | 68 |
| 4   | 88  | 78  | 71  | 65  |  | 86  | 77  | 70  | 65  |  | 74  | 68  | 63  |  | 71  | 66  | 62  |  | 68 | 64 | 61 |
| 5   | 82  | 72  | 64  | 58  |  | 80  | 70  | 63  | 58  |  | 68  | 62  | 57  |  | 65  | 60  | 56  |  | 63 | 58 | 55 |
| 6   | 77  | 66  | 58  | 53  |  | 75  | 64  | 57  | 52  |  | 62  | 56  | 51  |  | 60  | 55  | 51  |  | 58 | 53 | 50 |
| 7   | 72  | 60  | 53  | 48  |  | 70  | 59  | 52  | 47  |  | 57  | 51  | 47  |  | 56  | 50  | 46  |  | 54 | 49 | 45 |
| 8   | 68  | 56  | 48  | 43  |  | 66  | 55  | 48  | 43  |  | 53  | 47  | 43  |  | 52  | 46  | 42  |  | 50 | 45 | 41 |
| 9   | 64  | 52  | 45  | 40  |  | 62  | 51  | 44  | 39  |  | 50  | 43  | 39  |  | 48  | 43  | 39  |  | 47 | 42 | 38 |
| 10  | 60  | 48  | 41  | 36  |  | 58  | 47  | 41  | 36  |  | 46  | 40  | 36  |  | 45  | 39  | 36  |  | 44 | 39 | 35 |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 77044 |
| 5°  | 73490 |
| 10° | 70363 |
| 15° | 67840 |
| 20° | 65179 |
| 25° | 62738 |
| 30° | 58533 |
| 35° | 49124 |
| 40° | 37068 |
| 45° | 25193 |
| 50° | 13353 |
| 55° | 6978  |
| 60° | 6512  |
| 65° | 6459  |
| 70° | 6258  |
| 75° | 5773  |
| 80° | 4857  |
| 85° | 3643  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 25193 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1271.1  | 5.0       |
| 10°-20°   | 3712.4  | 14.5      |
| 20°-30°   | 5764.4  | 22.5      |
| 30°-40°   | 6064.3  | 23.7      |
| 40°-50°   | 3749.1  | 14.6      |
| 50°-60°   | 1305.0  | 5.1       |
| 60°-70°   | 1052.0  | 4.1       |
| 70°-80°   | 861.1   | 3.4       |
| 80°-90°   | 462.4   | 1.8       |
| 90°-100°  | 254.7   | 1.0       |
| 100°-110° | 255.5   | 1.0       |
| 110°-120° | 239.2   | 0.9       |
| 120°-130° | 208.8   | 0.8       |
| 130°-140° | 169.7   | 0.7       |
| 140°-150° | 127.4   | 0.5       |
| 150°-160° | 83.6    | 0.3       |
| 160°-170° | 41.7    | 0.2       |
| 170°-180° | 11.8    | 0.0       |
| <hr/>     |         |           |
| 0°-30°    | 10747.9 | 41.9      |
| 0°-40°    | 16812.2 | 65.6      |
| 0°-60°    | 21866.2 | 85.3      |
| 0°-90°    | 24241.7 | 94.6      |
| 90°-120°  | 749.4   | 2.9       |
| 90°-150°  | 1255.3  | 4.9       |
| 90°-180°  | 1392.0  | 5.4       |
| 0°-180°   | 25634.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 13361 |      |
| 5°   | 13346 | ###  |
| 15°  | 13145 | 3712 |
| 25°  | 12550 | 5764 |
| 35°  | 9837  | 6064 |
| 45°  | 4897  | 3749 |
| 55°  | 1274  | 1305 |
| 65°  | 1067  | 1052 |
| 75°  | 825   | 861  |
| 85°  | 423   | 388  |
| 90°  | 227   | 137  |
| 95°  | 233   | 192  |
| 105° | 242   | 255  |
| 115° | 241   | 239  |
| 125° | 232   | 209  |
| 135° | 219   | 170  |
| 145° | 203   | 127  |
| 155° | 181   | 84   |
| 165° | 146   | 42   |
| 175° | 124   | 12   |
| 180° | 121   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 13361.0 |
| 2.5°   | 13340.9 |
| 5°     | 13346.0 |
| 7.5°   | 13318.4 |
| 10°    | 13256.5 |
| 12.5°  | 13213.8 |
| 15°    | 13145.2 |
| 17.5°  | 13031.4 |
| 20°    | 12883.4 |
| 22.5°  | 12720.3 |
| 25°    | 12550.5 |
| 27.5°  | 12337.2 |
| 30°    | 11760.0 |
| 32.5°  | 10883.4 |
| 35°    | 9836.9  |
| 37.5°  | 8686.0  |
| 40°    | 7341.7  |
| 42.5°  | 6067.8  |
| 45°    | 4896.7  |
| 47.5°  | 3725.7  |
| 50°    | 2526.2  |
| 52.5°  | 1573.4  |
| 55°    | 1274.0  |
| 57.5°  | 1183.6  |
| 60°    | 1136.8  |
| 62.5°  | 1100.8  |
| 65°    | 1067.3  |
| 67.5°  | 1023.0  |
| 70°    | 967.8   |
| 72.5°  | 903.4   |
| 75°    | 824.8   |
| 77.5°  | 732.8   |
| 80°    | 631.5   |
| 82.5°  | 527.8   |
| 85°    | 423.3   |
| 87.5°  | 317.0   |
| 90°    | 226.7   |
| 92.5°  | 230.9   |
| 95°    | 233.4   |
| 97.5°  | 236.7   |
| 100°   | 239.2   |
| 102.5° | 240.9   |
| 105°   | 241.7   |
| 107.5° | 242.6   |
| 110°   | 242.6   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 242.6 |
| 115°   | 240.9 |
| 117.5° | 240.1 |
| 120°   | 237.6 |
| 122.5° | 235.9 |
| 125°   | 232.5 |
| 127.5° | 230.0 |
| 130°   | 226.7 |
| 132.5° | 222.5 |
| 135°   | 219.2 |
| 137.5° | 215.0 |
| 140°   | 210.8 |
| 142.5° | 206.6 |
| 145°   | 203.3 |
| 147.5° | 198.2 |
| 150°   | 193.2 |
| 152.5° | 187.4 |
| 155°   | 180.7 |
| 157.5° | 172.3 |
| 160°   | 163.1 |
| 162.5° | 154.7 |
| 165°   | 145.5 |
| 167.5° | 135.5 |
| 170°   | 126.3 |
| 172.5° | 123.8 |
| 175°   | 123.8 |
| 177.5° | 122.1 |
| 180°   | 121.3 |

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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 | 14.09            | 15.31 | 14.55 | 15.74 | 16.19 | 14.09          | 15.31 | 14.55 | 15.74 | 16.19 |
|                 | 3H   | 16.47            | 17.56 | 16.95 | 18.01 | 18.51 | 16.47          | 17.56 | 16.95 | 18.01 | 18.51 |
|                 | 4H   | 17.47            | 18.49 | 17.96 | 18.95 | 19.46 | 17.47          | 18.49 | 17.96 | 18.95 | 19.46 |
|                 | 6H   | 18.25            | 19.19 | 18.76 | 19.67 | 20.19 | 18.25          | 19.19 | 18.76 | 19.67 | 20.19 |
|                 | 8H   | 18.53            | 19.42 | 19.05 | 19.92 | 20.46 | 18.53          | 19.42 | 19.05 | 19.92 | 20.46 |
|                 | 12H  | 18.74            | 19.60 | 19.27 | 20.09 | 20.65 | 18.74          | 19.60 | 19.27 | 20.09 | 20.65 |
| 4H              | 2H   | 14.76            | 15.78 | 15.26 | 16.24 | 16.76 | 14.76          | 15.78 | 15.26 | 16.24 | 16.76 |
|                 | 3H   | 17.34            | 18.18 | 17.84 | 18.69 | 19.22 | 17.34          | 18.18 | 17.84 | 18.69 | 19.22 |
|                 | 4H   | 18.45            | 19.21 | 18.97 | 19.73 | 20.30 | 18.45          | 19.21 | 18.97 | 19.73 | 20.30 |
|                 | 6H   | 19.36            | 20.02 | 19.91 | 20.57 | 21.16 | 19.36          | 20.02 | 19.91 | 20.57 | 21.16 |
|                 | 8H   | 19.69            | 20.31 | 20.25 | 20.86 | 21.45 | 19.69          | 20.31 | 20.25 | 20.86 | 21.45 |
|                 | 12H  | 19.96            | 20.51 | 20.53 | 21.09 | 21.69 | 19.96          | 20.51 | 20.53 | 21.09 | 21.69 |
| 8H              | 4H   | 18.79            | 19.41 | 19.34 | 19.95 | 20.55 | 18.79          | 19.41 | 19.34 | 19.95 | 20.55 |
|                 | 6H   | 19.83            | 20.34 | 20.42 | 20.93 | 21.54 | 19.83          | 20.34 | 20.42 | 20.93 | 21.54 |
|                 | 8H   | 20.26            | 20.72 | 20.86 | 21.32 | 21.94 | 20.26          | 20.72 | 20.86 | 21.32 | 21.94 |
|                 | 12H  | 20.63            | 21.03 | 21.23 | 21.62 | 22.31 | 20.63          | 21.03 | 21.23 | 21.62 | 22.31 |
| 12H             | 4H   | 18.82            | 19.37 | 19.39 | 19.95 | 20.55 | 18.82          | 19.37 | 19.39 | 19.95 | 20.55 |
|                 | 6H   | 19.90            | 20.36 | 20.50 | 20.96 | 21.58 | 19.90          | 20.36 | 20.50 | 20.96 | 21.58 |
|                 | 8H   | 20.38            | 20.79 | 20.99 | 21.38 | 22.07 | 20.38          | 20.79 | 20.99 | 21.38 | 22.07 |