

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: P1221393

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (3000K\_L24\_Wide\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221393  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (3000K\_L24\_Wide\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, CLEAR SHADE, WIDE DISTRIBUTION.  
LIGHT LEVEL 1 - 24,000 LUMENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

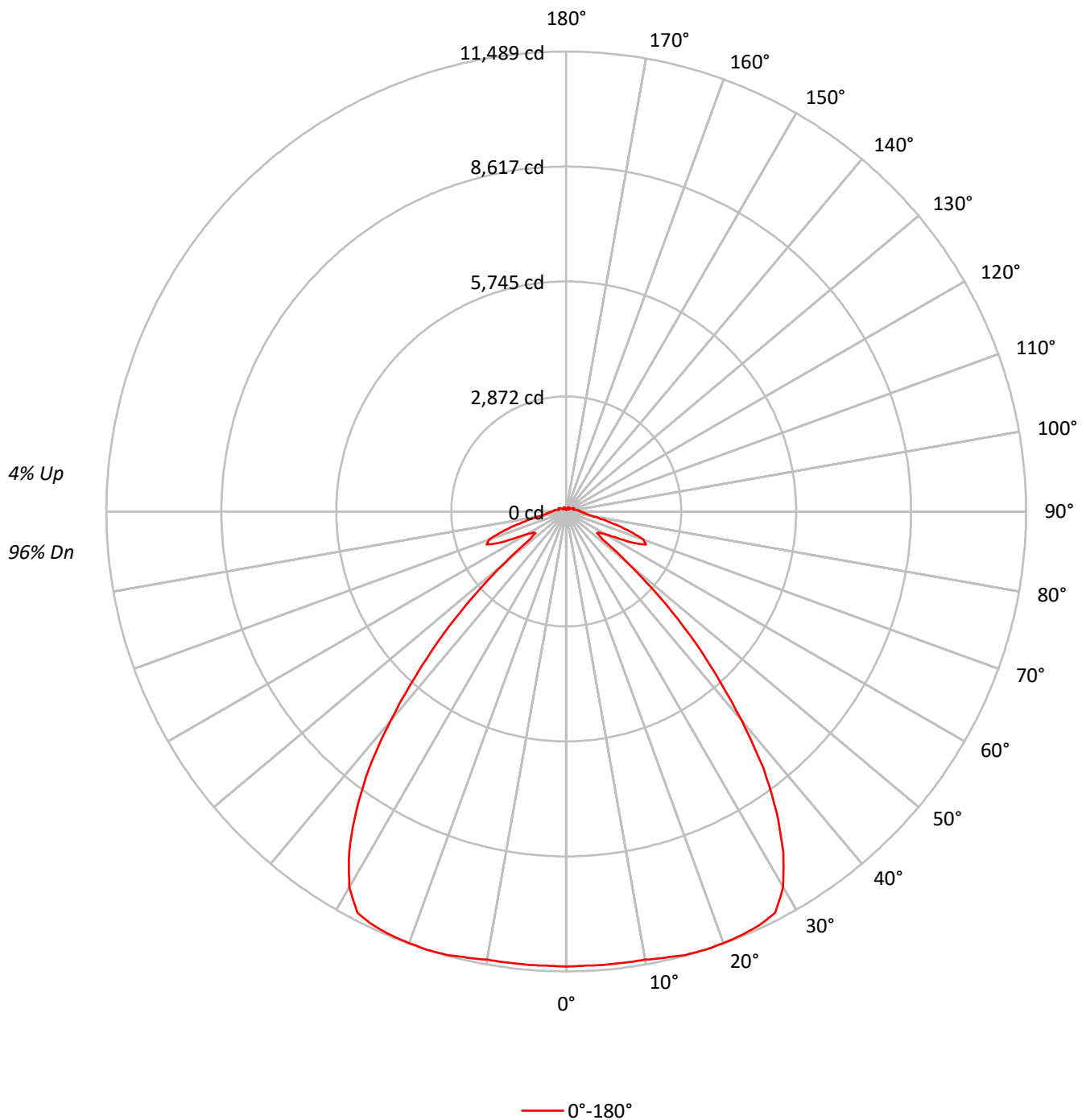
Lumens per Lamp: N/A  
Luminaire Lumens: 24251.9 lumens  
Efficiency: N/A  
Efficacy: 156.9 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.21  
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')  
CIE Type: Direct

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 |  | 109 | 109 | 109 |  | 103 | 103 | 103 |  | 98 | 98 | 98 |
| 1   | 109 | 105 | 101 | 97  |  | 106 | 102 | 99  | 95  |  | 97  | 94  | 92  |  | 93  | 90  | 88  |  | 88 | 87 | 85 |
| 2   | 101 | 93  | 87  | 82  |  | 98  | 91  | 86  | 81  |  | 87  | 83  | 79  |  | 83  | 80  | 76  |  | 80 | 77 | 74 |
| 3   | 93  | 84  | 77  | 71  |  | 91  | 82  | 76  | 70  |  | 79  | 73  | 69  |  | 76  | 71  | 67  |  | 73 | 69 | 65 |
| 4   | 87  | 76  | 68  | 63  |  | 84  | 75  | 67  | 62  |  | 72  | 66  | 61  |  | 69  | 64  | 59  |  | 66 | 62 | 58 |
| 5   | 81  | 69  | 61  | 56  |  | 78  | 68  | 61  | 55  |  | 66  | 59  | 54  |  | 63  | 58  | 53  |  | 61 | 56 | 52 |
| 6   | 75  | 63  | 56  | 50  |  | 73  | 62  | 55  | 50  |  | 60  | 54  | 49  |  | 58  | 52  | 48  |  | 56 | 51 | 47 |
| 7   | 70  | 58  | 51  | 45  |  | 69  | 57  | 50  | 45  |  | 56  | 49  | 44  |  | 54  | 48  | 44  |  | 52 | 47 | 43 |
| 8   | 66  | 54  | 46  | 41  |  | 64  | 53  | 46  | 41  |  | 51  | 45  | 40  |  | 50  | 44  | 40  |  | 49 | 43 | 39 |
| 9   | 62  | 50  | 43  | 37  |  | 61  | 49  | 42  | 37  |  | 48  | 41  | 37  |  | 46  | 41  | 37  |  | 45 | 40 | 36 |
| 10  | 58  | 46  | 39  | 34  |  | 57  | 46  | 39  | 34  |  | 45  | 38  | 34  |  | 43  | 38  | 34  |  | 42 | 37 | 33 |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 65567 |
| 5°  | 62601 |
| 10° | 60353 |
| 15° | 59205 |
| 20° | 58051 |
| 25° | 57012 |
| 30° | 53946 |
| 35° | 45722 |
| 40° | 34399 |
| 45° | 22433 |
| 50° | 10629 |
| 55° | 5118  |
| 60° | 6501  |
| 65° | 11302 |
| 70° | 13241 |
| 75° | 8878  |
| 80° | 5230  |
| 85° | 3877  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 22433 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1085.0  | 4.5       |
| 10°-20°   | 3247.4  | 13.4      |
| 20°-30°   | 5237.9  | 21.6      |
| 30°-40°   | 5632.0  | 23.2      |
| 40°-50°   | 3336.4  | 13.8      |
| 50°-60°   | 1033.0  | 4.3       |
| 60°-70°   | 1753.6  | 7.2       |
| 70°-80°   | 1380.3  | 5.7       |
| 80°-90°   | 518.2   | 2.1       |
| 90°-100°  | 326.8   | 1.3       |
| 100°-110° | 203.2   | 0.8       |
| 110°-120° | 192.4   | 0.8       |
| 120°-130° | 93.1    | 0.4       |
| 130°-140° | 64.6    | 0.3       |
| 140°-150° | 71.9    | 0.3       |
| 150°-160° | 50.1    | 0.2       |
| 160°-170° | 21.4    | 0.1       |
| 170°-180° | 4.5     | 0.0       |
| <hr/>     |         |           |
| 0°-30°    | 9570.3  | 39.5      |
| 0°-40°    | 15202.3 | 62.7      |
| 0°-60°    | 19571.7 | 80.7      |
| 0°-90°    | 23223.9 | 95.8      |
| 90°-120°  | 722.4   | 3.0       |
| 90°-150°  | 952.1   | 3.9       |
| 90°-180°  | 1028.0  | 4.2       |
| 0°-180°   | 24251.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 11371 |      |
| 5°   | 11368 | ###  |
| 15°  | 11472 | 3247 |
| 25°  | 11405 | 5238 |
| 35°  | 9156  | 5632 |
| 45°  | 4360  | 3336 |
| 55°  | 934   | 1033 |
| 65°  | 1868  | 1754 |
| 75°  | 1268  | 1380 |
| 85°  | 450   | 413  |
| 90°  | 357   | 198  |
| 95°  | 299   | 233  |
| 105° | 172   | 203  |
| 115° | 205   | 192  |
| 125° | 98    | 93   |
| 135° | 80    | 65   |
| 145° | 117   | 72   |
| 155° | 110   | 50   |
| 165° | 73    | 21   |
| 175° | 44    | 4    |
| 180° | 44    |      |

TEST NUMBER: P1221393

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (3000K\_L24\_Wide\_120V)

**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 11370.7 |
| 2.5°   | 11356.4 |
| 5°     | 11368.5 |
| 7.5°   | 11367.0 |
| 10°    | 11370.7 |
| 12.5°  | 11415.7 |
| 15°    | 11472.0 |
| 17.5°  | 11489.3 |
| 20°    | 11474.3 |
| 22.5°  | 11456.3 |
| 25°    | 11405.2 |
| 27.5°  | 11305.4 |
| 30°    | 10838.5 |
| 32.5°  | 10094.7 |
| 35°    | 9155.7  |
| 37.5°  | 8097.4  |
| 40°    | 6813.1  |
| 42.5°  | 5553.6  |
| 45°    | 4360.2  |
| 47.5°  | 3168.2  |
| 50°    | 2010.8  |
| 52.5°  | 1134.9  |
| 55°    | 934.5   |
| 57.5°  | 988.5   |
| 60°    | 1134.9  |
| 62.5°  | 1421.6  |
| 65°    | 1867.5  |
| 67.5°  | 2157.2  |
| 70°    | 2047.6  |
| 72.5°  | 1682.1  |
| 75°    | 1268.5  |
| 77.5°  | 925.5   |
| 80°    | 680.0   |
| 82.5°  | 524.7   |
| 85°    | 450.4   |
| 87.5°  | 407.6   |
| 90°    | 357.3   |
| 92.5°  | 325.8   |
| 95°    | 298.7   |
| 97.5°  | 274.0   |
| 100°   | 240.9   |
| 102.5° | 199.7   |
| 105°   | 171.9   |
| 107.5° | 174.9   |
| 110°   | 201.2   |

TEST NUMBER: P1221393

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (3000K\_L24\_Wide\_120V)

**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 216.2 |
| 115°   | 204.9 |
| 117.5° | 177.9 |
| 120°   | 148.6 |
| 122.5° | 120.8 |
| 125°   | 98.3  |
| 127.5° | 82.6  |
| 130°   | 72.8  |
| 132.5° | 72.1  |
| 135°   | 80.3  |
| 137.5° | 93.8  |
| 140°   | 106.6 |
| 142.5° | 114.8 |
| 145°   | 117.1 |
| 147.5° | 116.3 |
| 150°   | 114.1 |
| 152.5° | 112.6 |
| 155°   | 109.6 |
| 157.5° | 104.3 |
| 160°   | 94.6  |
| 162.5° | 84.8  |
| 165°   | 72.8  |
| 167.5° | 61.5  |
| 170°   | 51.8  |
| 172.5° | 46.5  |
| 175°   | 44.3  |
| 177.5° | 43.5  |
| 180°   | 43.5  |

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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 | 13.10            | 14.40 | 13.54 | 14.80 | 15.23 | 13.10          | 14.40 | 13.54 | 14.80 | 15.23 |
|                 | 3H   | 20.04            | 21.22 | 20.49 | 21.63 | 22.10 | 20.04          | 21.22 | 20.49 | 21.63 | 22.10 |
|                 | 4H   | 21.05            | 22.15 | 21.52 | 22.59 | 23.08 | 21.05          | 22.15 | 21.52 | 22.59 | 23.08 |
|                 | 6H   | 21.46            | 22.48 | 21.95 | 22.94 | 23.43 | 21.46          | 22.48 | 21.95 | 22.94 | 23.43 |
|                 | 8H   | 21.56            | 22.53 | 22.06 | 23.01 | 23.51 | 21.56          | 22.53 | 22.06 | 23.01 | 23.51 |
|                 | 12H  | 21.64            | 22.57 | 22.15 | 23.04 | 23.57 | 21.64          | 22.57 | 22.15 | 23.04 | 23.57 |
| 4H              | 2H   | 15.64            | 16.75 | 16.12 | 17.18 | 17.67 | 15.64          | 16.75 | 16.12 | 17.18 | 17.67 |
|                 | 3H   | 21.23            | 22.15 | 21.71 | 22.64 | 23.14 | 21.23          | 22.15 | 21.71 | 22.64 | 23.14 |
|                 | 4H   | 22.21            | 23.05 | 22.71 | 23.55 | 24.09 | 22.21          | 23.05 | 22.71 | 23.55 | 24.09 |
|                 | 6H   | 22.66            | 23.40 | 23.19 | 23.92 | 24.48 | 22.66          | 23.40 | 23.19 | 23.92 | 24.48 |
|                 | 8H   | 22.78            | 23.47 | 23.32 | 23.99 | 24.56 | 22.78          | 23.47 | 23.32 | 23.99 | 24.56 |
|                 | 12H  | 22.89            | 23.50 | 23.44 | 24.06 | 24.63 | 22.89          | 23.50 | 23.44 | 24.06 | 24.63 |
| 8H              | 4H   | 22.48            | 23.17 | 23.02 | 23.69 | 24.26 | 22.48          | 23.17 | 23.02 | 23.69 | 24.26 |
|                 | 6H   | 23.00            | 23.57 | 23.57 | 24.14 | 24.71 | 23.00          | 23.57 | 23.57 | 24.14 | 24.71 |
|                 | 8H   | 23.17            | 23.68 | 23.75 | 24.26 | 24.85 | 23.17          | 23.68 | 23.75 | 24.26 | 24.85 |
|                 | 12H  | 23.34            | 23.79 | 23.92 | 24.36 | 25.02 | 23.34          | 23.79 | 23.92 | 24.36 | 25.02 |
| 12H             | 4H   | 22.48            | 23.09 | 23.03 | 23.65 | 24.22 | 22.48          | 23.09 | 23.03 | 23.65 | 24.22 |
|                 | 6H   | 23.01            | 23.52 | 23.59 | 24.10 | 24.69 | 23.01          | 23.52 | 23.59 | 24.10 | 24.69 |
|                 | 8H   | 23.22            | 23.67 | 23.80 | 24.23 | 24.89 | 23.22          | 23.67 | 23.80 | 24.23 | 24.89 |