

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: P1221423

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (5000K\_L32\_Wide\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221423  
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 (5000K\_L32\_Wide\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, CLEAR SHADE, WIDE DISTRIBUTION.  
LIGHT LEVEL 2 - 32,000 LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

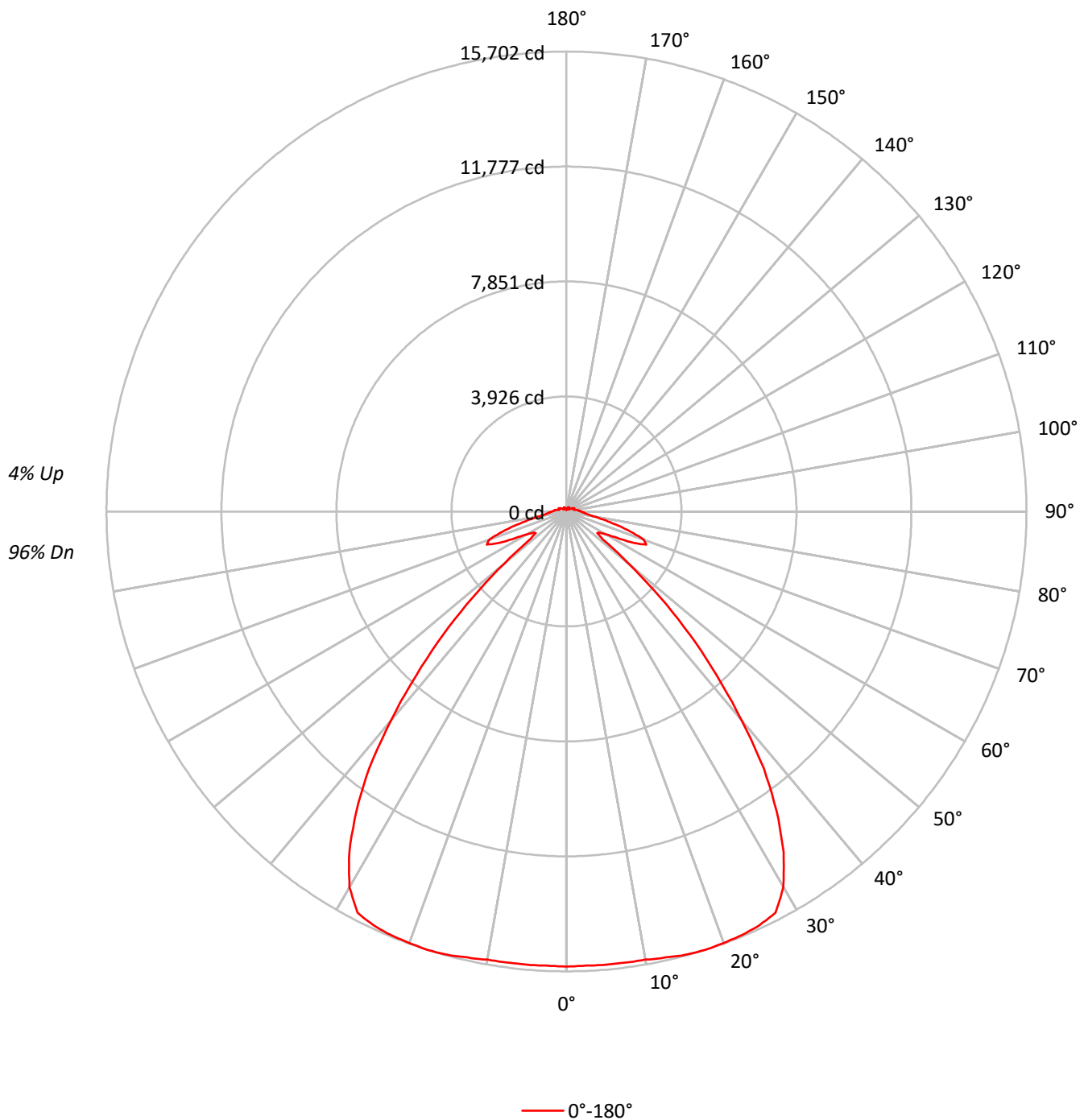
Lumens per Lamp: N/A  
Luminaire Lumens: 33143.1 lumens  
Efficiency: N/A  
Efficacy: 171.6 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.21  
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')  
CIE Type: Direct

Input Watts (W): 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 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 98 | 98 | 96 |
| 1   | 109 | 105 | 101 | 97  | 106 | 102 | 99  | 95  | 97  | 94  | 92  | 93  | 90  | 88  | 88 | 87 | 85 | 85 | 85 | 83 |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 87  | 83  | 79  | 83  | 80  | 76  | 80 | 77 | 74 | 74 | 74 | 72 |
| 3   | 93  | 84  | 77  | 71  | 91  | 82  | 76  | 70  | 79  | 73  | 69  | 76  | 71  | 67  | 73 | 69 | 65 | 65 | 65 | 63 |
| 4   | 87  | 76  | 68  | 63  | 84  | 75  | 67  | 62  | 72  | 66  | 61  | 69  | 64  | 59  | 66 | 62 | 58 | 58 | 58 | 56 |
| 5   | 81  | 69  | 61  | 56  | 78  | 68  | 61  | 55  | 66  | 59  | 54  | 63  | 58  | 53  | 61 | 56 | 52 | 52 | 52 | 50 |
| 6   | 75  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 60  | 54  | 49  | 58  | 52  | 48  | 56 | 51 | 47 | 47 | 47 | 45 |
| 7   | 70  | 58  | 51  | 45  | 69  | 57  | 50  | 45  | 56  | 49  | 44  | 54  | 48  | 44  | 52 | 47 | 43 | 43 | 43 | 41 |
| 8   | 66  | 54  | 46  | 41  | 64  | 53  | 46  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 49 | 43 | 39 | 39 | 39 | 38 |
| 9   | 62  | 50  | 43  | 37  | 61  | 49  | 42  | 37  | 48  | 41  | 37  | 46  | 41  | 37  | 45 | 40 | 36 | 36 | 36 | 34 |
| 10  | 58  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 43  | 38  | 34  | 42 | 37 | 33 | 33 | 33 | 32 |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 89605 |
| 5°  | 85551 |
| 10° | 82480 |
| 15° | 80910 |
| 20° | 79332 |
| 25° | 77914 |
| 30° | 73724 |
| 35° | 62484 |
| 40° | 47011 |
| 45° | 30657 |
| 50° | 14525 |
| 55° | 6995  |
| 60° | 8885  |
| 65° | 15445 |
| 70° | 18095 |
| 75° | 12133 |
| 80° | 7147  |
| 85° | 5298  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 30657 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1482.8  | 4.5       |
| 10°-20°   | 4438.0  | 13.4      |
| 20°-30°   | 7158.1  | 21.6      |
| 30°-40°   | 7696.8  | 23.2      |
| 40°-50°   | 4559.6  | 13.8      |
| 50°-60°   | 1411.7  | 4.3       |
| 60°-70°   | 2396.6  | 7.2       |
| 70°-80°   | 1886.4  | 5.7       |
| 80°-90°   | 708.2   | 2.1       |
| 90°-100°  | 446.6   | 1.3       |
| 100°-110° | 277.6   | 0.8       |
| 110°-120° | 263.0   | 0.8       |
| 120°-130° | 127.3   | 0.4       |
| 130°-140° | 88.3    | 0.3       |
| 140°-150° | 98.3    | 0.3       |
| 150°-160° | 68.5    | 0.2       |
| 160°-170° | 29.2    | 0.1       |
| 170°-180° | 6.1     | 0.0       |
| 0°-30°    | 13079.0 | 39.5      |
| 0°-40°    | 20775.7 | 62.7      |
| 0°-60°    | 26747.0 | 80.7      |
| 0°-90°    | 31738.1 | 95.8      |
| 90°-120°  | 987.2   | 3.0       |
| 90°-150°  | 1301.2  | 3.9       |
| 90°-180°  | 1405.0  | 4.2       |
| 0°-180°   | 33143.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 15539 |      |
| 5°   | 15536 | ###  |
| 15°  | 15678 | 4438 |
| 25°  | 15587 | 7158 |
| 35°  | 12512 | 7697 |
| 45°  | 5959  | 4560 |
| 55°  | 1277  | 1412 |
| 65°  | 2552  | 2397 |
| 75°  | 1734  | 1886 |
| 85°  | 616   | 565  |
| 90°  | 488   | 271  |
| 95°  | 408   | 319  |
| 105° | 235   | 278  |
| 115° | 280   | 263  |
| 125° | 134   | 127  |
| 135° | 110   | 88   |
| 145° | 160   | 98   |
| 155° | 150   | 68   |
| 165° | 100   | 29   |
| 175° | 60    | 6    |
| 180° | 60    |      |

TEST NUMBER: P1221423

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 15539.4 |
| 2.5°   | 15519.9 |
| 5°     | 15536.3 |
| 7.5°   | 15534.3 |
| 10°    | 15539.4 |
| 12.5°  | 15600.9 |
| 15°    | 15677.9 |
| 17.5°  | 15701.5 |
| 20°    | 15680.9 |
| 22.5°  | 15656.3 |
| 25°    | 15586.6 |
| 27.5°  | 15450.1 |
| 30°    | 14812.1 |
| 32.5°  | 13795.6 |
| 35°    | 12512.3 |
| 37.5°  | 11066.0 |
| 40°    | 9310.9  |
| 42.5°  | 7589.7  |
| 45°    | 5958.7  |
| 47.5°  | 4329.8  |
| 50°    | 2748.0  |
| 52.5°  | 1551.0  |
| 55°    | 1277.1  |
| 57.5°  | 1350.9  |
| 60°    | 1551.0  |
| 62.5°  | 1942.8  |
| 65°    | 2552.1  |
| 67.5°  | 2948.1  |
| 70°    | 2798.3  |
| 72.5°  | 2298.8  |
| 75°    | 1733.6  |
| 77.5°  | 1264.8  |
| 80°    | 929.3   |
| 82.5°  | 717.0   |
| 85°    | 615.5   |
| 87.5°  | 557.0   |
| 90°    | 488.3   |
| 92.5°  | 445.2   |
| 95°    | 408.3   |
| 97.5°  | 374.4   |
| 100°   | 329.3   |
| 102.5° | 272.9   |
| 105°   | 234.9   |
| 107.5° | 239.0   |
| 110°   | 274.9   |

TEST NUMBER: P1221423

CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (5000K\_L32\_Wide\_120V)

**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 295.4 |
| 115°   | 280.0 |
| 117.5° | 243.1 |
| 120°   | 203.1 |
| 122.5° | 165.1 |
| 125°   | 134.4 |
| 127.5° | 112.8 |
| 130°   | 99.5  |
| 132.5° | 98.5  |
| 135°   | 109.8 |
| 137.5° | 128.2 |
| 140°   | 145.7 |
| 142.5° | 156.9 |
| 145°   | 160.0 |
| 147.5° | 159.0 |
| 150°   | 155.9 |
| 152.5° | 153.9 |
| 155°   | 149.8 |
| 157.5° | 142.6 |
| 160°   | 129.2 |
| 162.5° | 115.9 |
| 165°   | 99.5  |
| 167.5° | 84.1  |
| 170°   | 70.8  |
| 172.5° | 63.6  |
| 175°   | 60.5  |
| 177.5° | 59.5  |
| 180°   | 59.5  |

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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 | 14.18            | 15.49 | 14.62 | 15.89 | 16.31 | 14.18          | 15.49 | 14.62 | 15.89 | 16.31 |
|                 | 3H   | 21.13            | 22.30 | 21.58 | 22.72 | 23.19 | 21.13          | 22.30 | 21.58 | 22.72 | 23.19 |
|                 | 4H   | 22.14            | 23.24 | 22.61 | 23.68 | 24.16 | 22.14          | 23.24 | 22.61 | 23.68 | 24.16 |
|                 | 6H   | 22.55            | 23.57 | 23.03 | 24.02 | 24.52 | 22.55          | 23.57 | 23.03 | 24.02 | 24.52 |
|                 | 8H   | 22.65            | 23.62 | 23.15 | 24.09 | 24.60 | 22.65          | 23.62 | 23.15 | 24.09 | 24.60 |
|                 | 12H  | 22.73            | 23.66 | 23.23 | 24.13 | 24.66 | 22.73          | 23.66 | 23.23 | 24.13 | 24.66 |
| 4H              | 2H   | 16.73            | 17.83 | 17.20 | 18.27 | 18.75 | 16.73          | 17.83 | 17.20 | 18.27 | 18.75 |
|                 | 3H   | 22.31            | 23.24 | 22.79 | 23.72 | 24.23 | 22.31          | 23.24 | 22.79 | 23.72 | 24.23 |
|                 | 4H   | 23.29            | 24.14 | 23.80 | 24.63 | 25.17 | 23.29          | 24.14 | 23.80 | 24.63 | 25.17 |
|                 | 6H   | 23.75            | 24.48 | 24.28 | 25.01 | 25.57 | 23.75          | 24.48 | 24.28 | 25.01 | 25.57 |
|                 | 8H   | 23.87            | 24.55 | 24.40 | 25.08 | 25.64 | 23.87          | 24.55 | 24.40 | 25.08 | 25.64 |
|                 | 12H  | 23.98            | 24.59 | 24.53 | 25.14 | 25.72 | 23.98          | 24.59 | 24.53 | 25.14 | 25.72 |
| 8H              | 4H   | 23.57            | 24.26 | 24.10 | 24.78 | 25.35 | 23.57          | 24.26 | 24.10 | 24.78 | 25.35 |
|                 | 6H   | 24.09            | 24.65 | 24.65 | 25.22 | 25.80 | 24.09          | 24.65 | 24.65 | 25.22 | 25.80 |
|                 | 8H   | 24.25            | 24.76 | 24.84 | 25.35 | 25.93 | 24.25          | 24.76 | 24.84 | 25.35 | 25.93 |
|                 | 12H  | 24.43            | 24.88 | 25.01 | 25.44 | 26.10 | 24.43          | 24.88 | 25.01 | 25.44 | 26.10 |
| 12H             | 4H   | 23.56            | 24.18 | 24.12 | 24.73 | 25.30 | 23.56          | 24.18 | 24.12 | 24.73 | 25.30 |
|                 | 6H   | 24.09            | 24.60 | 24.68 | 25.19 | 25.77 | 24.09          | 24.60 | 24.68 | 25.19 | 25.77 |
|                 | 8H   | 24.31            | 24.75 | 24.89 | 25.32 | 25.98 | 24.31          | 24.75 | 24.89 | 25.32 | 25.98 |