

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: P1221405

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (3500K\_L32\_Wide\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221405  
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 (3500K\_L32\_Wide\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, CLEAR SHADE, WIDE DISTRIBUTION.  
LIGHT LEVEL 2 - 32,000 LUMENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

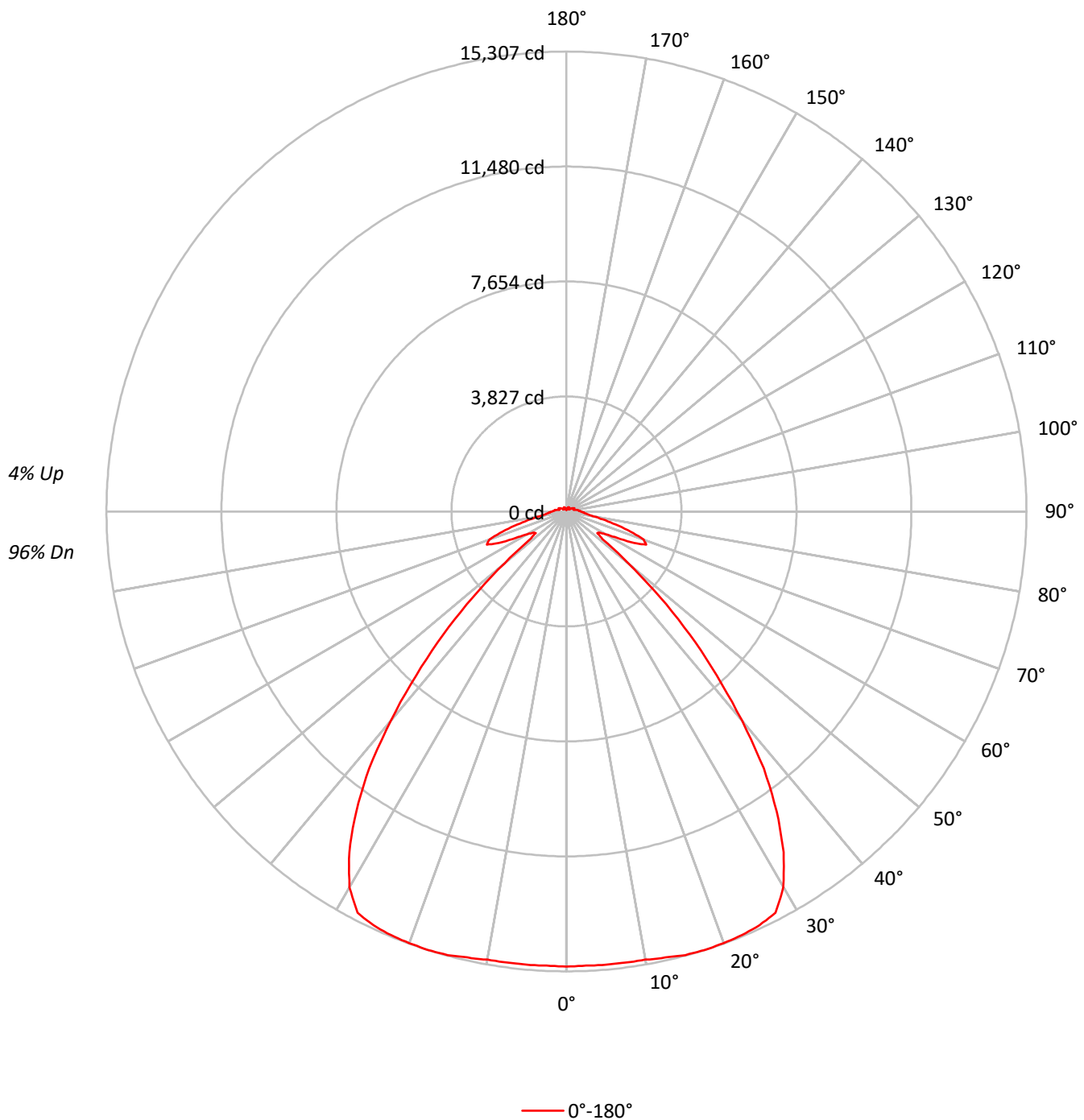
Lumens per Lamp: N/A  
Luminaire Lumens: 32310.4 lumens  
Efficiency: N/A  
Efficacy: 167.1 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.21  
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')  
CIE Type: Direct

Input Watts (W): 193.4  
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°  | 87354 |
| 5°  | 83402 |
| 10° | 80407 |
| 15° | 78877 |
| 20° | 77340 |
| 25° | 75957 |
| 30° | 71872 |
| 35° | 60914 |
| 40° | 45830 |
| 45° | 29887 |
| 50° | 14160 |
| 55° | 6819  |
| 60° | 8661  |
| 65° | 15057 |
| 70° | 17640 |
| 75° | 11828 |
| 80° | 6968  |
| 85° | 5164  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 29887 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1445.6  | 4.5       |
| 10°-20°   | 4326.5  | 13.4      |
| 20°-30°   | 6978.3  | 21.6      |
| 30°-40°   | 7503.4  | 23.2      |
| 40°-50°   | 4445.1  | 13.8      |
| 50°-60°   | 1376.2  | 4.3       |
| 60°-70°   | 2336.3  | 7.2       |
| 70°-80°   | 1838.9  | 5.7       |
| 80°-90°   | 690.4   | 2.1       |
| 90°-100°  | 435.4   | 1.3       |
| 100°-110° | 270.6   | 0.8       |
| 110°-120° | 256.4   | 0.8       |
| 120°-130° | 124.1   | 0.4       |
| 130°-140° | 86.1    | 0.3       |
| 140°-150° | 95.9    | 0.3       |
| 150°-160° | 66.8    | 0.2       |
| 160°-170° | 28.5    | 0.1       |
| 170°-180° | 5.9     | 0.0       |
| <hr/>     |         |           |
| 0°-30°    | 12750.4 | 39.5      |
| 0°-40°    | 20253.8 | 62.7      |
| 0°-60°    | 26075.1 | 80.7      |
| 0°-90°    | 30940.8 | 95.8      |
| 90°-120°  | 962.4   | 3.0       |
| 90°-150°  | 1268.5  | 3.9       |
| 90°-180°  | 1370.0  | 4.2       |
| 0°-180°   | 32310.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 15149 |      |
| 5°   | 15146 | ###  |
| 15°  | 15284 | 4326 |
| 25°  | 15195 | 6978 |
| 35°  | 12198 | 7503 |
| 45°  | 5809  | 4445 |
| 55°  | 1245  | 1376 |
| 65°  | 2488  | 2336 |
| 75°  | 1690  | 1839 |
| 85°  | 600   | 551  |
| 90°  | 476   | 264  |
| 95°  | 398   | 311  |
| 105° | 229   | 271  |
| 115° | 273   | 256  |
| 125° | 131   | 124  |
| 135° | 107   | 86   |
| 145° | 156   | 96   |
| 155° | 146   | 67   |
| 165° | 97    | 28   |
| 175° | 59    | 6    |
| 180° | 58    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |       |
|--------|-------|
| 0°     | 15149 |
| 2.5°   | 15130 |
| 5°     | 15146 |
| 7.5°   | 15144 |
| 10°    | 15149 |
| 12.5°  | 15209 |
| 15°    | 15284 |
| 17.5°  | 15307 |
| 20°    | 15287 |
| 22.5°  | 15263 |
| 25°    | 15195 |
| 27.5°  | 15062 |
| 30°    | 14440 |
| 32.5°  | 13449 |
| 35°    | 12198 |
| 37.5°  | 10788 |
| 40°    | 9077  |
| 42.5°  | 7399  |
| 45°    | 5809  |
| 47.5°  | 4221  |
| 50°    | 2679  |
| 52.5°  | 1512  |
| 55°    | 1245  |
| 57.5°  | 1317  |
| 60°    | 1512  |
| 62.5°  | 1894  |
| 65°    | 2488  |
| 67.5°  | 2874  |
| 70°    | 2728  |
| 72.5°  | 2241  |
| 75°    | 1690  |
| 77.5°  | 1233  |
| 80°    | 906   |
| 82.5°  | 699   |
| 85°    | 600   |
| 87.5°  | 543   |
| 90°    | 476   |
| 92.5°  | 434   |
| 95°    | 398   |
| 97.5°  | 365   |
| 100°   | 321   |
| 102.5° | 266   |
| 105°   | 229   |
| 107.5° | 233   |
| 110°   | 268   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  |
|--------|-----|
| 112.5° | 288 |
| 115°   | 273 |
| 117.5° | 237 |
| 120°   | 198 |
| 122.5° | 161 |
| 125°   | 131 |
| 127.5° | 110 |
| 130°   | 97  |
| 132.5° | 96  |
| 135°   | 107 |
| 137.5° | 125 |
| 140°   | 142 |
| 142.5° | 153 |
| 145°   | 156 |
| 147.5° | 155 |
| 150°   | 152 |
| 152.5° | 150 |
| 155°   | 146 |
| 157.5° | 139 |
| 160°   | 126 |
| 162.5° | 113 |
| 165°   | 97  |
| 167.5° | 82  |
| 170°   | 69  |
| 172.5° | 62  |
| 175°   | 59  |
| 177.5° | 58  |
| 180°   | 58  |

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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            | 15.40 | 14.53 | 15.80 | 16.22 | 14.09          | 15.40 | 14.53 | 15.80 | 16.22 |
|                 | 3H   | 21.04            | 22.21 | 21.49 | 22.63 | 23.10 | 21.04          | 22.21 | 21.49 | 22.63 | 23.10 |
|                 | 4H   | 22.05            | 23.15 | 22.52 | 23.59 | 24.07 | 22.05          | 23.15 | 22.52 | 23.59 | 24.07 |
|                 | 6H   | 22.46            | 23.48 | 22.94 | 23.93 | 24.43 | 22.46          | 23.48 | 22.94 | 23.93 | 24.43 |
|                 | 8H   | 22.56            | 23.53 | 23.06 | 24.01 | 24.51 | 22.56          | 23.53 | 23.06 | 24.01 | 24.51 |
|                 | 12H  | 22.64            | 23.57 | 23.14 | 24.04 | 24.57 | 22.64          | 23.57 | 23.14 | 24.04 | 24.57 |
| 4H              | 2H   | 16.64            | 17.74 | 17.11 | 18.18 | 18.66 | 16.64          | 17.74 | 17.11 | 18.18 | 18.66 |
|                 | 3H   | 22.22            | 23.15 | 22.71 | 23.64 | 24.14 | 22.22          | 23.15 | 22.71 | 23.64 | 24.14 |
|                 | 4H   | 23.21            | 24.05 | 23.71 | 24.54 | 25.09 | 23.21          | 24.05 | 23.71 | 24.54 | 25.09 |
|                 | 6H   | 23.66            | 24.39 | 24.19 | 24.92 | 25.48 | 23.66          | 24.39 | 24.19 | 24.92 | 25.48 |
|                 | 8H   | 23.78            | 24.47 | 24.31 | 24.99 | 25.56 | 23.78          | 24.47 | 24.31 | 24.99 | 25.56 |
|                 | 12H  | 23.89            | 24.50 | 24.44 | 25.06 | 25.63 | 23.89          | 24.50 | 24.44 | 25.06 | 25.63 |
| 8H              | 4H   | 23.48            | 24.17 | 24.01 | 24.69 | 25.26 | 23.48          | 24.17 | 24.01 | 24.69 | 25.26 |
|                 | 6H   | 24.00            | 24.56 | 24.56 | 25.13 | 25.71 | 24.00          | 24.56 | 24.56 | 25.13 | 25.71 |
|                 | 8H   | 24.17            | 24.67 | 24.75 | 25.26 | 25.84 | 24.17          | 24.67 | 24.75 | 25.26 | 25.84 |
|                 | 12H  | 24.34            | 24.79 | 24.92 | 25.35 | 26.02 | 24.34          | 24.79 | 24.92 | 25.35 | 26.02 |
| 12H             | 4H   | 23.47            | 24.09 | 24.03 | 24.64 | 25.21 | 23.47          | 24.09 | 24.03 | 24.64 | 25.21 |
|                 | 6H   | 24.01            | 24.51 | 24.59 | 25.10 | 25.68 | 24.01          | 24.51 | 24.59 | 25.10 | 25.68 |
|                 | 8H   | 24.22            | 24.66 | 24.80 | 25.23 | 25.89 | 24.22          | 24.66 | 24.80 | 25.23 | 25.89 |