

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: P1221302

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (3000K\_L12\_Narrow\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221302  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (3000K\_L12\_Narrow\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, WHITE SHADE, NARROW DISTRIBUTION.  
LIGHT LEVEL 1 - 12,000 LUMENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

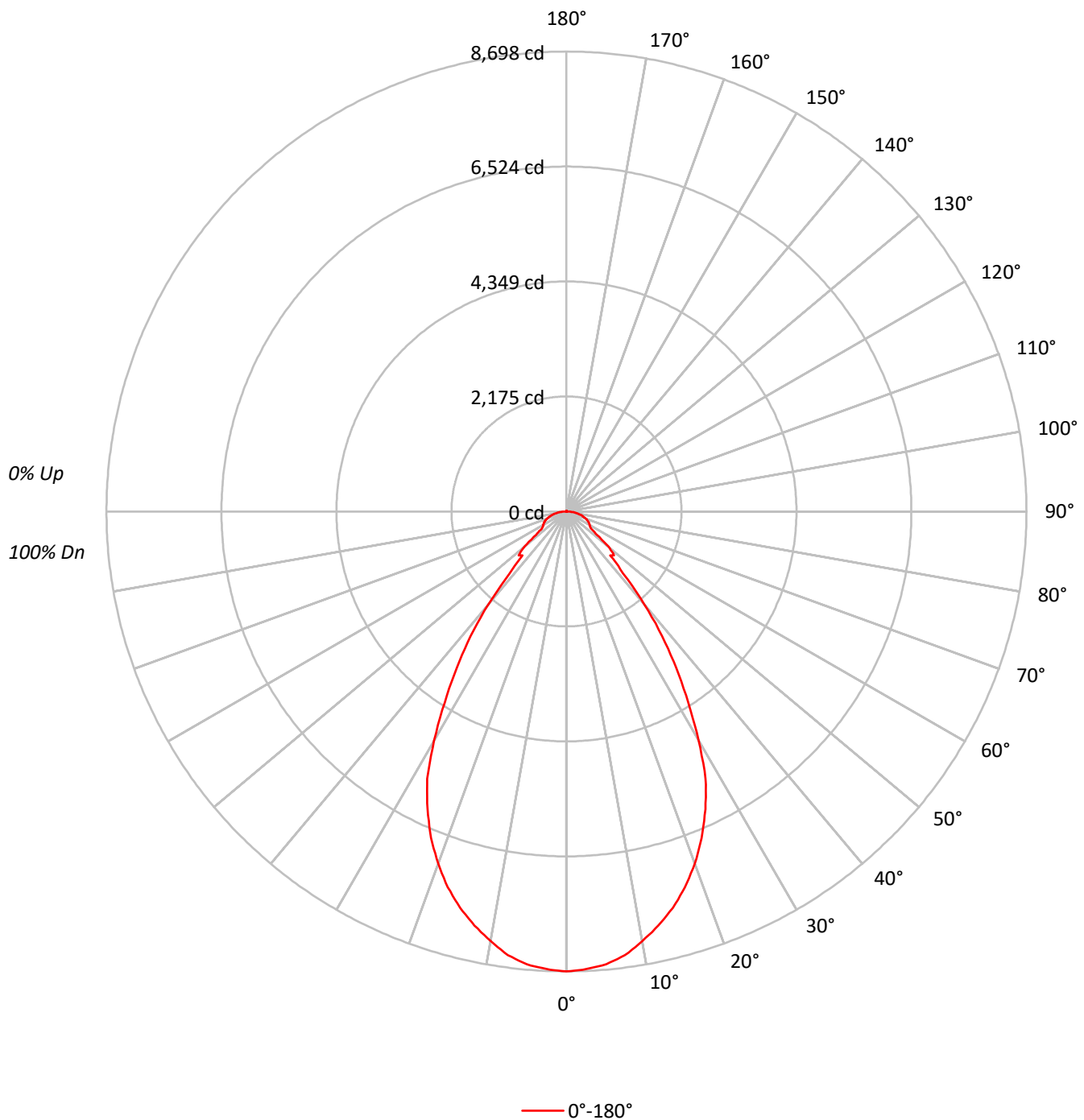
Lumens per Lamp: N/A  
Luminaire Lumens: 10602.5 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.96  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')  
CIE Type: Direct

Input Watts (W): 81.4  
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  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 100 |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  |  | 98  | 96  | 94  |  | 90  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  |  | 90  | 87  | 84  |  | 80  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  |  | 83  | 79  | 76  |  | 73  |
| 4   | 92  | 83  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 69  |  | 77  | 72  | 69  |  | 66  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 69  | 64  | 73  | 68  | 63  |  | 71  | 66  | 63  |  | 60  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  |  | 67  | 61  | 57  |  | 55  |
| 7   | 77  | 66  | 59  | 54  | 75  | 65  | 58  | 54  | 64  | 58  | 53  |  | 62  | 57  | 53  |  | 51  |
| 8   | 72  | 61  | 54  | 50  | 71  | 61  | 54  | 50  | 60  | 54  | 49  |  | 58  | 53  | 49  |  | 47  |
| 9   | 68  | 57  | 51  | 46  | 67  | 57  | 50  | 46  | 56  | 50  | 46  |  | 55  | 49  | 46  |  | 44  |
| 10  | 65  | 54  | 47  | 43  | 64  | 53  | 47  | 43  | 53  | 47  | 43  |  | 52  | 46  | 43  |  | 41  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 47551 |
| 5°  | 45076 |
| 10° | 41859 |
| 15° | 38415 |
| 20° | 34527 |
| 25° | 29998 |
| 30° | 24104 |
| 35° | 17542 |
| 40° | 11331 |
| 45° | 5901  |
| 50° | 5359  |
| 55° | 3086  |
| 60° | 2856  |
| 65° | 2730  |
| 70° | 2477  |
| 75° | 2089  |
| 80° | 1582  |
| 85° | 897   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 47.5°  
Luminance: 6254 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 809.9   | 7.6       |
| 10°-20°   | 2174.0  | 20.5      |
| 20°-30°   | 2824.2  | 26.6      |
| 30°-40°   | 2248.7  | 21.2      |
| 40°-50°   | 1082.6  | 10.2      |
| 50°-60°   | 577.5   | 5.4       |
| 60°-70°   | 445.8   | 4.2       |
| 70°-80°   | 311.7   | 2.9       |
| 80°-90°   | 110.2   | 1.0       |
| 90°-100°  | 0.9     | 0.0       |
| 100°-110° | 1.2     | 0.0       |
| 110°-120° | 1.6     | 0.0       |
| 120°-130° | 1.7     | 0.0       |
| 130°-140° | 2.3     | 0.0       |
| 140°-150° | 3.5     | 0.0       |
| 150°-160° | 3.4     | 0.0       |
| 160°-170° | 2.3     | 0.0       |
| 170°-180° | 0.9     | 0.0       |
| 0°-30°    | 5808.1  | 54.8      |
| 0°-40°    | 8056.9  | 76.0      |
| 0°-60°    | 9717.0  | 91.6      |
| 0°-90°    | 10584.7 | 99.8      |
| 90°-120°  | 3.6     | 0.0       |
| 90°-150°  | 11.2    | 0.1       |
| 90°-180°  | 18.0    | 0.2       |
| 0°-180°   | 10602.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 8698 |      |
| 5°   | 8599 | 810  |
| 15°  | 7762 | 2174 |
| 25°  | 6216 | 2824 |
| 35°  | 3615 | 2249 |
| 45°  | 1172 | 1083 |
| 55°  | 572  | 578  |
| 65°  | 454  | 446  |
| 75°  | 297  | 312  |
| 85°  | 102  | 104  |
| 90°  | 1    | 7    |
| 95°  | 1    | 1    |
| 105° | 1    | 1    |
| 115° | 2    | 2    |
| 125° | 2    | 2    |
| 135° | 3    | 2    |
| 145° | 6    | 4    |
| 155° | 7    | 3    |
| 165° | 8    | 2    |
| 175° | 10   | 1    |
| 180° | 10   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 8698.0 |
| 2.5°   | 8664.8 |
| 5°     | 8599.3 |
| 7.5°   | 8465.1 |
| 10°    | 8253.3 |
| 12.5°  | 8023.6 |
| 15°    | 7762.4 |
| 17.5°  | 7452.8 |
| 20°    | 7092.9 |
| 22.5°  | 6684.6 |
| 25°    | 6216.4 |
| 27.5°  | 5698.1 |
| 30°    | 5000.3 |
| 32.5°  | 4287.1 |
| 35°    | 3615.2 |
| 37.5°  | 2973.2 |
| 40°    | 2302.0 |
| 42.5°  | 1584.8 |
| 45°    | 1172.5 |
| 47.5°  | 1225.0 |
| 50°    | 1032.6 |
| 52.5°  | 723.7  |
| 55°    | 571.7  |
| 57.5°  | 529.6  |
| 60°    | 503.8  |
| 62.5°  | 481.9  |
| 65°    | 453.6  |
| 67.5°  | 420.5  |
| 70°    | 383.3  |
| 72.5°  | 341.2  |
| 75°    | 296.8  |
| 77.5°  | 249.9  |
| 80°    | 203.0  |
| 82.5°  | 153.6  |
| 85°    | 101.9  |
| 87.5°  | 47.7   |
| 90°    | 0.8    |
| 92.5°  | 0.8    |
| 95°    | 0.8    |
| 97.5°  | 0.8    |
| 100°   | 0.8    |
| 102.5° | 0.8    |
| 105°   | 0.8    |
| 107.5° | 1.6    |
| 110°   | 1.6    |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  |
|--------|-----|
| 112.5° | 1.6 |
| 115°   | 1.6 |
| 117.5° | 1.6 |
| 120°   | 1.6 |
| 122.5° | 1.6 |
| 125°   | 1.6 |
| 127.5° | 2.4 |
| 130°   | 2.4 |
| 132.5° | 2.4 |
| 135°   | 3.2 |
| 137.5° | 3.2 |
| 140°   | 4.0 |
| 142.5° | 4.9 |
| 145°   | 5.7 |
| 147.5° | 6.5 |
| 150°   | 7.3 |
| 152.5° | 7.3 |
| 155°   | 7.3 |
| 157.5° | 7.3 |
| 160°   | 7.3 |
| 162.5° | 8.1 |
| 165°   | 8.1 |
| 167.5° | 8.9 |
| 170°   | 8.9 |
| 172.5° | 8.9 |
| 175°   | 9.7 |
| 177.5° | 9.7 |
| 180°   | 9.7 |

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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 | 11.86            | 13.09 | 12.23 | 13.41 | 13.73 | 11.86          | 13.09 | 12.23 | 13.41 | 13.73 |
|                 | 3H   | 13.92            | 15.01 | 14.30 | 15.35 | 15.72 | 13.92          | 15.01 | 14.30 | 15.35 | 15.72 |
|                 | 4H   | 14.66            | 15.68 | 15.07 | 16.04 | 16.43 | 14.66          | 15.68 | 15.07 | 16.04 | 16.43 |
|                 | 6H   | 15.18            | 16.12 | 15.60 | 16.49 | 16.89 | 15.18          | 16.12 | 15.60 | 16.49 | 16.89 |
|                 | 8H   | 15.33            | 16.22 | 15.76 | 16.61 | 17.02 | 15.33          | 16.22 | 15.76 | 16.61 | 17.02 |
|                 | 12H  | 15.40            | 16.25 | 15.84 | 16.64 | 17.08 | 15.40          | 16.25 | 15.84 | 16.64 | 17.08 |
| 4H              | 2H   | 12.46            | 13.48 | 12.87 | 13.84 | 14.23 | 12.46          | 13.48 | 12.87 | 13.84 | 14.23 |
|                 | 3H   | 14.68            | 15.52 | 15.09 | 15.93 | 16.34 | 14.68          | 15.52 | 15.09 | 15.93 | 16.34 |
|                 | 4H   | 15.52            | 16.28 | 15.96 | 16.71 | 17.15 | 15.52          | 16.28 | 15.96 | 16.71 | 17.15 |
|                 | 6H   | 16.15            | 16.81 | 16.62 | 17.26 | 17.73 | 16.15          | 16.81 | 16.62 | 17.26 | 17.73 |
|                 | 8H   | 16.33            | 16.95 | 16.81 | 17.40 | 17.87 | 16.33          | 16.95 | 16.81 | 17.40 | 17.87 |
|                 | 12H  | 16.44            | 16.98 | 16.93 | 17.47 | 17.95 | 16.44          | 16.98 | 16.93 | 17.47 | 17.95 |
| 8H              | 4H   | 15.76            | 16.37 | 16.23 | 16.82 | 17.30 | 15.76          | 16.37 | 16.23 | 16.82 | 17.30 |
|                 | 6H   | 16.49            | 16.99 | 17.00 | 17.49 | 17.98 | 16.49          | 16.99 | 17.00 | 17.49 | 17.98 |
|                 | 8H   | 16.74            | 17.18 | 17.26 | 17.70 | 18.20 | 16.74          | 17.18 | 17.26 | 17.70 | 18.20 |
|                 | 12H  | 16.91            | 17.30 | 17.43 | 17.80 | 18.37 | 16.91          | 17.30 | 17.43 | 17.80 | 18.37 |
| 12H             | 4H   | 15.77            | 16.31 | 16.26 | 16.79 | 17.27 | 15.77          | 16.31 | 16.26 | 16.79 | 17.27 |
|                 | 6H   | 16.52            | 16.96 | 17.04 | 17.48 | 17.98 | 16.52          | 16.96 | 17.04 | 17.48 | 17.98 |
|                 | 8H   | 16.81            | 17.20 | 17.33 | 17.70 | 18.28 | 16.81          | 17.20 | 17.33 | 17.70 | 18.28 |