

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: P1221329

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (5000K\_L12\_Narrow\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221329  
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 (5000K\_L12\_Narrow\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, WHITE SHADE, NARROW DISTRIBUTION.  
LIGHT LEVEL 1 - 12,000 LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

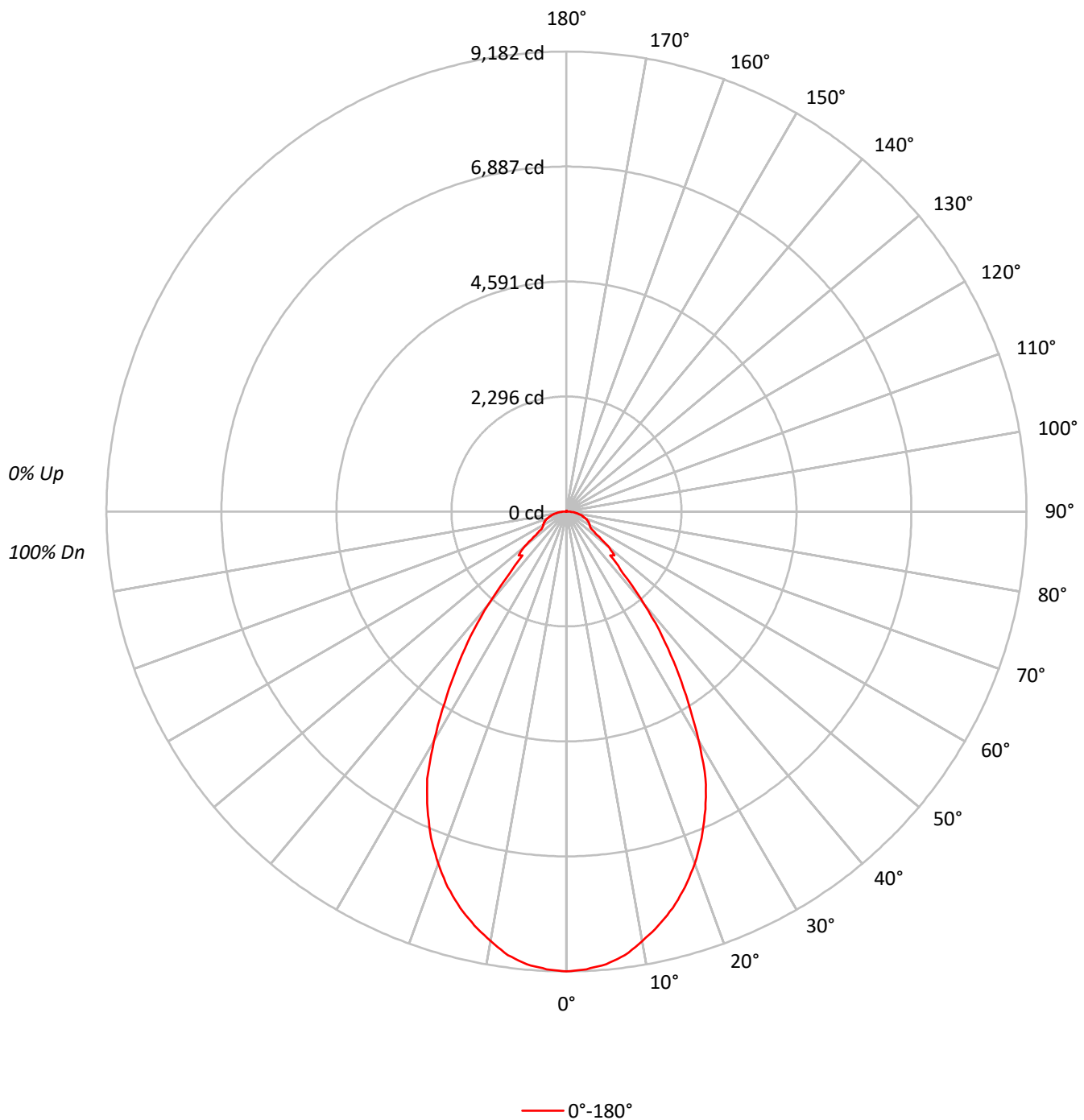
Lumens per Lamp: N/A  
Luminaire Lumens: 11192.9 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.96  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')  
CIE Type: Direct

Input Watts (W): 80.4  
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  | 50  | 30 | 10 | 50 | 30 | 10 |  |  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |  |  |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    |    |  |  |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 90  |    |    |    |    |    |  |  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 85  | 82  | 80  |    |    |    |    |    |  |  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 77  | 74  | 73  |    |    |    |    |    |  |  |
| 4   | 92  | 83  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 69  | 77  | 72  | 69  | 75  | 71  | 68  | 66  |    |    |    |    |    |  |  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 69  | 64  | 73  | 68  | 63  | 71  | 66  | 63  | 70  | 65  | 62  | 60  |    |    |    |    |    |  |  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 55  |    |    |    |    |    |  |  |
| 7   | 77  | 66  | 59  | 54  | 75  | 65  | 58  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 51  |    |    |    |    |    |  |  |
| 8   | 72  | 61  | 54  | 50  | 71  | 61  | 54  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 47  |    |    |    |    |    |  |  |
| 9   | 68  | 57  | 51  | 46  | 67  | 57  | 50  | 46  | 56  | 50  | 46  | 55  | 49  | 46  | 54  | 49  | 45  | 44  |    |    |    |    |    |  |  |
| 10  | 65  | 54  | 47  | 43  | 64  | 53  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 43  | 51  | 46  | 42  | 41  |    |    |    |    |    |  |  |

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

|     | 0°    |
|-----|-------|
| 0°  | 50198 |
| 5°  | 47586 |
| 10° | 44189 |
| 15° | 40553 |
| 20° | 36449 |
| 25° | 31668 |
| 30° | 25446 |
| 35° | 18518 |
| 40° | 11962 |
| 45° | 6229  |
| 50° | 5656  |
| 55° | 3258  |
| 60° | 3015  |
| 65° | 2882  |
| 70° | 2615  |
| 75° | 2205  |
| 80° | 1670  |
| 85° | 947   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $0^\circ$ 

Vertical Angle:  $47.5^\circ$

Luminance: 6602 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 855.0   | 7.6       |
| 10°-20°   | 2295.0  | 20.5      |
| 20°-30°   | 2981.5  | 26.6      |
| 30°-40°   | 2373.9  | 21.2      |
| 40°-50°   | 1142.9  | 10.2      |
| 50°-60°   | 609.7   | 5.4       |
| 60°-70°   | 470.6   | 4.2       |
| 70°-80°   | 329.0   | 2.9       |
| 80°-90°   | 116.4   | 1.0       |
| 90°-100°  | 1.0     | 0.0       |
| 100°-110° | 1.3     | 0.0       |
| 110°-120° | 1.7     | 0.0       |
| 120°-130° | 1.8     | 0.0       |
| 130°-140° | 2.5     | 0.0       |
| 140°-150° | 3.7     | 0.0       |
| 150°-160° | 3.6     | 0.0       |
| 160°-170° | 2.5     | 0.0       |
| 170°-180° | 0.9     | 0.0       |
| 0°-30°    | 6131.5  | 54.8      |
| 0°-40°    | 8505.4  | 76.0      |
| 0°-60°    | 10258.0 | 91.6      |
| 0°-90°    | 11174.0 | 99.8      |
| 90°-120°  | 3.9     | 0.0       |
| 90°-150°  | 11.9    | 0.1       |
| 90°-180°  | 19.0    | 0.2       |
| 0°-180°   | 11192.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 9182 |      |
| 5°   | 9078 | 855  |
| 15°  | 8195 | 2295 |
| 25°  | 6562 | 2981 |
| 35°  | 3816 | 2374 |
| 45°  | 1238 | 1143 |
| 55°  | 604  | 610  |
| 65°  | 479  | 471  |
| 75°  | 313  | 329  |
| 85°  | 108  | 109  |
| 90°  | 1    | 7    |
| 95°  | 1    | 1    |
| 105° | 1    | 1    |
| 115° | 2    | 2    |
| 125° | 2    | 2    |
| 135° | 3    | 2    |
| 145° | 6    | 4    |
| 155° | 8    | 4    |
| 165° | 8    | 2    |
| 175° | 10   | 1    |
| 180° | 10   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 9182.2 |
| 2.5°   | 9147.2 |
| 5°     | 9078.0 |
| 7.5°   | 8936.3 |
| 10°    | 8712.7 |
| 12.5°  | 8470.3 |
| 15°    | 8194.6 |
| 17.5°  | 7867.6 |
| 20°    | 7487.8 |
| 22.5°  | 7056.7 |
| 25°    | 6562.5 |
| 27.5°  | 6015.3 |
| 30°    | 5278.7 |
| 32.5°  | 4525.8 |
| 35°    | 3816.4 |
| 37.5°  | 3138.7 |
| 40°    | 2430.2 |
| 42.5°  | 1673.1 |
| 45°    | 1237.7 |
| 47.5°  | 1293.2 |
| 50°    | 1090.0 |
| 52.5°  | 764.0  |
| 55°    | 603.5  |
| 57.5°  | 559.1  |
| 60°    | 531.8  |
| 62.5°  | 508.7  |
| 65°    | 478.9  |
| 67.5°  | 443.9  |
| 70°    | 404.6  |
| 72.5°  | 360.2  |
| 75°    | 313.3  |
| 77.5°  | 263.8  |
| 80°    | 214.3  |
| 82.5°  | 162.2  |
| 85°    | 107.6  |
| 87.5°  | 50.4   |
| 90°    | 0.9    |
| 92.5°  | 0.9    |
| 95°    | 0.9    |
| 97.5°  | 0.9    |
| 100°   | 0.9    |
| 102.5° | 0.9    |
| 105°   | 0.9    |
| 107.5° | 1.7    |
| 110°   | 1.7    |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 1.7  |
| 115°   | 1.7  |
| 117.5° | 1.7  |
| 120°   | 1.7  |
| 122.5° | 1.7  |
| 125°   | 1.7  |
| 127.5° | 2.6  |
| 130°   | 2.6  |
| 132.5° | 2.6  |
| 135°   | 3.4  |
| 137.5° | 3.4  |
| 140°   | 4.3  |
| 142.5° | 5.1  |
| 145°   | 6.0  |
| 147.5° | 6.8  |
| 150°   | 7.7  |
| 152.5° | 7.7  |
| 155°   | 7.7  |
| 157.5° | 7.7  |
| 160°   | 7.7  |
| 162.5° | 8.5  |
| 165°   | 8.5  |
| 167.5° | 9.4  |
| 170°   | 9.4  |
| 172.5° | 9.4  |
| 175°   | 10.2 |
| 177.5° | 10.2 |
| 180°   | 10.2 |

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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 | 12.05            | 13.28 | 12.42 | 13.60 | 13.92 | 12.05          | 13.28 | 12.42 | 13.60 | 13.92 |
|                 | 3H   | 14.10            | 15.20 | 14.49 | 15.53 | 15.90 | 14.10          | 15.20 | 14.49 | 15.53 | 15.90 |
|                 | 4H   | 14.85            | 15.87 | 15.26 | 16.23 | 16.62 | 14.85          | 15.87 | 15.26 | 16.23 | 16.62 |
|                 | 6H   | 15.37            | 16.31 | 15.79 | 16.68 | 17.08 | 15.37          | 16.31 | 15.79 | 16.68 | 17.08 |
|                 | 8H   | 15.52            | 16.41 | 15.95 | 16.80 | 17.21 | 15.52          | 16.41 | 15.95 | 16.80 | 17.21 |
|                 | 12H  | 15.59            | 16.44 | 16.03 | 16.83 | 17.26 | 15.59          | 16.44 | 16.03 | 16.83 | 17.26 |
| 4H              | 2H   | 12.65            | 13.67 | 13.06 | 14.03 | 14.41 | 12.65          | 13.67 | 13.06 | 14.03 | 14.41 |
|                 | 3H   | 14.86            | 15.71 | 15.28 | 16.12 | 16.52 | 14.86          | 15.71 | 15.28 | 16.12 | 16.52 |
|                 | 4H   | 15.71            | 16.47 | 16.15 | 16.89 | 17.34 | 15.71          | 16.47 | 16.15 | 16.89 | 17.34 |
|                 | 6H   | 16.34            | 16.99 | 16.80 | 17.44 | 17.92 | 16.34          | 16.99 | 16.80 | 17.44 | 17.92 |
|                 | 8H   | 16.52            | 17.13 | 16.99 | 17.58 | 18.06 | 16.52          | 17.13 | 16.99 | 17.58 | 18.06 |
|                 | 12H  | 16.63            | 17.17 | 17.12 | 17.66 | 18.13 | 16.63          | 17.17 | 17.12 | 17.66 | 18.13 |
| 8H              | 4H   | 15.95            | 16.56 | 16.42 | 17.01 | 17.49 | 15.95          | 16.56 | 16.42 | 17.01 | 17.49 |
|                 | 6H   | 16.68            | 17.18 | 17.19 | 17.68 | 18.16 | 16.68          | 17.18 | 17.19 | 17.68 | 18.16 |
|                 | 8H   | 16.93            | 17.37 | 17.45 | 17.89 | 18.39 | 16.93          | 17.37 | 17.45 | 17.89 | 18.39 |
|                 | 12H  | 17.10            | 17.49 | 17.61 | 17.98 | 18.56 | 17.10          | 17.49 | 17.61 | 17.98 | 18.56 |
| 12H             | 4H   | 15.95            | 16.49 | 16.44 | 16.98 | 17.46 | 15.95          | 16.49 | 16.44 | 16.98 | 17.46 |
|                 | 6H   | 16.70            | 17.15 | 17.23 | 17.67 | 18.17 | 16.70          | 17.15 | 17.23 | 17.67 | 18.17 |
|                 | 8H   | 17.00            | 17.39 | 17.52 | 17.89 | 18.46 | 17.00          | 17.39 | 17.52 | 17.89 | 18.46 |

END OF REPORT