

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: P1221317

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (3500K\_L18\_Narrow\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221317  
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 (3500K\_L18\_Narrow\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, WHITE SHADE, NARROW DISTRIBUTION.  
LIGHT LEVEL 1 - 18,000 LUMENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

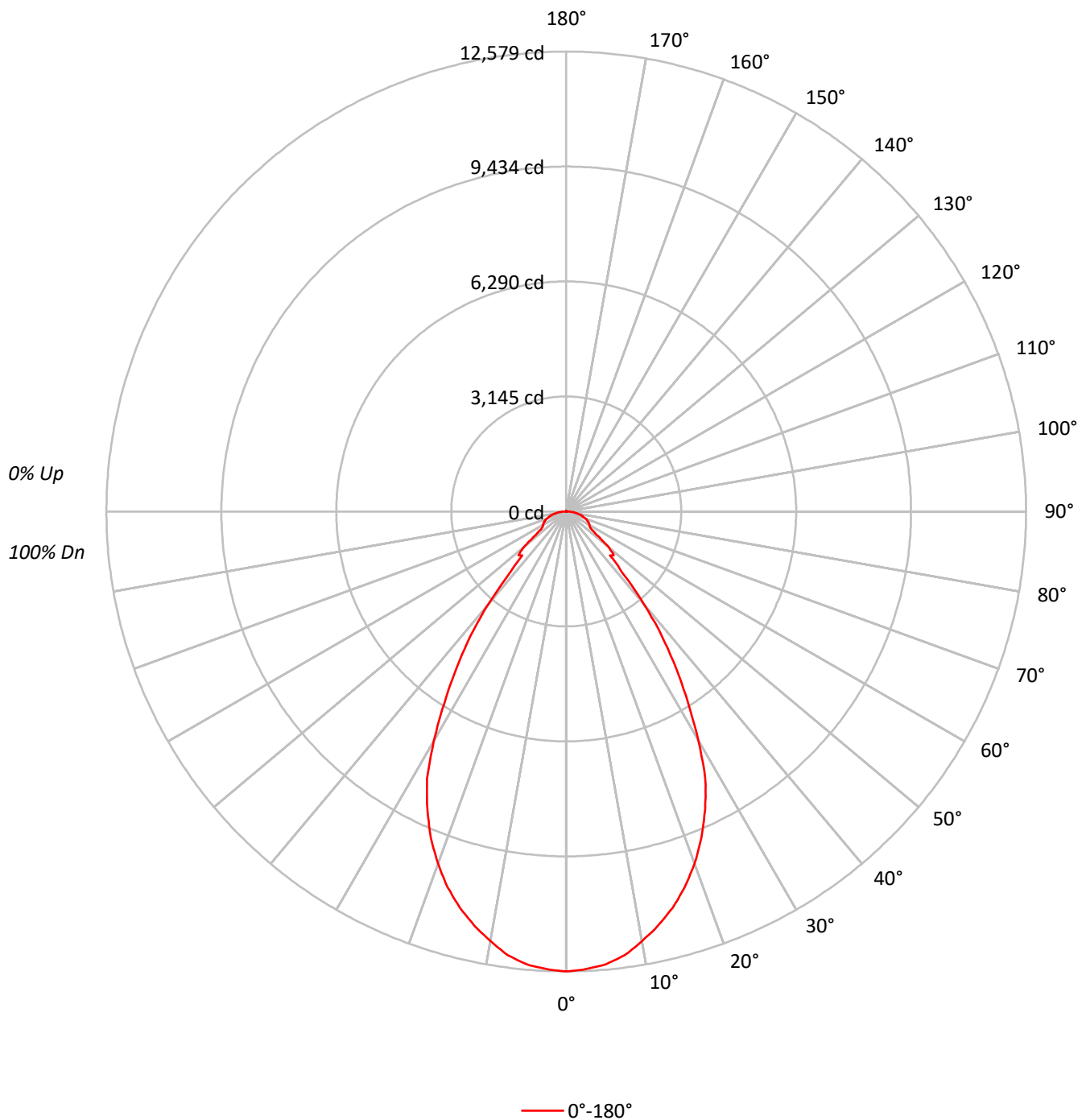
Lumens per Lamp: N/A  
Luminaire Lumens: 15333.5 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.96  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')  
CIE Type: Direct

Input Watts (W): 120.8  
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

TEST NUMBER: P1221317

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (3500K\_L18\_Narrow\_120V)

### Luminous Intensity Polar Plot





TEST NUMBER: P1221317

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (3500K\_L18\_Narrow\_120V)

### 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°  | 68768 |
| 5°  | 65190 |
| 10° | 60536 |
| 15° | 55556 |
| 20° | 49934 |
| 25° | 43384 |
| 30° | 34860 |
| 35° | 25370 |
| 40° | 16388 |
| 45° | 8534  |
| 50° | 7749  |
| 55° | 4463  |
| 60° | 4130  |
| 65° | 3947  |
| 70° | 3583  |
| 75° | 3021  |
| 80° | 2287  |
| 85° | 1296  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $0^\circ$ 

Vertical Angle:  $47.5^\circ$

Luminance: 9044 cd/sqm

TEST NUMBER: P1221317

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (3500K\_L18\_Narrow\_120V)

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1171.3  | 7.6       |
| 10°-20°   | 3144.1  | 20.5      |
| 20°-30°   | 4084.5  | 26.6      |
| 30°-40°   | 3252.2  | 21.2      |
| 40°-50°   | 1565.7  | 10.2      |
| 50°-60°   | 835.2   | 5.4       |
| 60°-70°   | 644.7   | 4.2       |
| 70°-80°   | 450.7   | 2.9       |
| 80°-90°   | 159.4   | 1.0       |
| 90°-100°  | 1.3     | 0.0       |
| 100°-110° | 1.7     | 0.0       |
| 110°-120° | 2.3     | 0.0       |
| 120°-130° | 2.5     | 0.0       |
| 130°-140° | 3.4     | 0.0       |
| 140°-150° | 5.1     | 0.0       |
| 150°-160° | 4.9     | 0.0       |
| 160°-170° | 3.4     | 0.0       |
| 170°-180° | 1.3     | 0.0       |
| <hr/>     |         |           |
| 0°-30°    | 8399.8  | 54.8      |
| 0°-40°    | 11652.0 | 76.0      |
| 0°-60°    | 14053.0 | 91.6      |
| 0°-90°    | 15307.8 | 99.8      |
| 90°-120°  | 5.3     | 0.0       |
| 90°-150°  | 16.2    | 0.1       |
| 90°-180°  | 26.0    | 0.2       |
| 0°-180°   | 15333.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 12579 |      |
| 5°   | 12436 | ###  |
| 15°  | 11226 | 3144 |
| 25°  | 8990  | 4084 |
| 35°  | 5228  | 3252 |
| 45°  | 1696  | 1566 |
| 55°  | 827   | 835  |
| 65°  | 656   | 645  |
| 75°  | 429   | 451  |
| 85°  | 147   | 150  |
| 90°  | 1     | 10   |
| 95°  | 1     | 1    |
| 105° | 1     | 2    |
| 115° | 2     | 2    |
| 125° | 2     | 2    |
| 135° | 5     | 3    |
| 145° | 8     | 5    |
| 155° | 10    | 5    |
| 165° | 12    | 3    |
| 175° | 14    | 1    |
| 180° | 14    |      |

TEST NUMBER: P1221317

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (3500K\_L18\_Narrow\_120V)

**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 12579.2 |
| 2.5°   | 12531.3 |
| 5°     | 12436.5 |
| 7.5°   | 12242.4 |
| 10°    | 11936.0 |
| 12.5°  | 11603.9 |
| 15°    | 11226.2 |
| 17.5°  | 10778.3 |
| 20°    | 10257.9 |
| 22.5°  | 9667.4  |
| 25°    | 8990.3  |
| 27.5°  | 8240.7  |
| 30°    | 7231.5  |
| 32.5°  | 6200.1  |
| 35°    | 5228.4  |
| 37.5°  | 4299.9  |
| 40°    | 3329.3  |
| 42.5°  | 2292.0  |
| 45°    | 1695.6  |
| 47.5°  | 1771.6  |
| 50°    | 1493.3  |
| 52.5°  | 1046.6  |
| 55°    | 826.8   |
| 57.5°  | 766.0   |
| 60°    | 728.5   |
| 62.5°  | 697.0   |
| 65°    | 656.0   |
| 67.5°  | 608.1   |
| 70°    | 554.3   |
| 72.5°  | 493.5   |
| 75°    | 429.2   |
| 77.5°  | 361.3   |
| 80°    | 293.5   |
| 82.5°  | 222.2   |
| 85°    | 147.3   |
| 87.5°  | 69.0    |
| 90°    | 1.2     |
| 92.5°  | 1.2     |
| 95°    | 1.2     |
| 97.5°  | 1.2     |
| 100°   | 1.2     |
| 102.5° | 1.2     |
| 105°   | 1.2     |
| 107.5° | 2.3     |
| 110°   | 2.3     |

TEST NUMBER: P1221317

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (3500K\_L18\_Narrow\_120V)

**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 2.3  |
| 115°   | 2.3  |
| 117.5° | 2.3  |
| 120°   | 2.3  |
| 122.5° | 2.3  |
| 125°   | 2.3  |
| 127.5° | 3.5  |
| 130°   | 3.5  |
| 132.5° | 3.5  |
| 135°   | 4.7  |
| 137.5° | 4.7  |
| 140°   | 5.8  |
| 142.5° | 7.0  |
| 145°   | 8.2  |
| 147.5° | 9.4  |
| 150°   | 10.5 |
| 152.5° | 10.5 |
| 155°   | 10.5 |
| 157.5° | 10.5 |
| 160°   | 10.5 |
| 162.5° | 11.7 |
| 165°   | 11.7 |
| 167.5° | 12.9 |
| 170°   | 12.9 |
| 172.5° | 12.9 |
| 175°   | 14.0 |
| 177.5° | 14.0 |
| 180°   | 14.0 |

TEST NUMBER: P1221317

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (3500K\_L18\_Narrow\_120V)

**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 | 13.15            | 14.38 | 13.52 | 14.69 | 15.01 | 13.15          | 14.38 | 13.52 | 14.69 | 15.01 |
|                 | 3H   | 15.20            | 16.29 | 15.58 | 16.63 | 17.00 | 15.20          | 16.29 | 15.58 | 16.63 | 17.00 |
|                 | 4H   | 15.94            | 16.97 | 16.35 | 17.32 | 17.71 | 15.94          | 16.97 | 16.35 | 17.32 | 17.71 |
|                 | 6H   | 16.46            | 17.40 | 16.88 | 17.78 | 18.17 | 16.46          | 17.40 | 16.88 | 17.78 | 18.17 |
|                 | 8H   | 16.61            | 17.50 | 17.05 | 17.89 | 18.30 | 16.61          | 17.50 | 17.05 | 17.89 | 18.30 |
|                 | 12H  | 16.69            | 17.54 | 17.12 | 17.92 | 18.36 | 16.69          | 17.54 | 17.12 | 17.92 | 18.36 |
| 4H              | 2H   | 13.74            | 14.76 | 14.15 | 15.12 | 15.51 | 13.74          | 14.76 | 14.15 | 15.12 | 15.51 |
|                 | 3H   | 15.96            | 16.80 | 16.37 | 17.21 | 17.62 | 15.96          | 16.80 | 16.37 | 17.21 | 17.62 |
|                 | 4H   | 16.81            | 17.56 | 17.25 | 17.99 | 18.44 | 16.81          | 17.56 | 17.25 | 17.99 | 18.44 |
|                 | 6H   | 17.43            | 18.09 | 17.90 | 18.54 | 19.01 | 17.43          | 18.09 | 17.90 | 18.54 | 19.01 |
|                 | 8H   | 17.61            | 18.23 | 18.09 | 18.68 | 19.15 | 17.61          | 18.23 | 18.09 | 18.68 | 19.15 |
|                 | 12H  | 17.72            | 18.26 | 18.21 | 18.75 | 19.23 | 17.72          | 18.26 | 18.21 | 18.75 | 19.23 |
| 8H              | 4H   | 17.04            | 17.66 | 17.52 | 18.11 | 18.58 | 17.04          | 17.66 | 17.52 | 18.11 | 18.58 |
|                 | 6H   | 17.77            | 18.27 | 18.28 | 18.77 | 19.26 | 17.77          | 18.27 | 18.28 | 18.77 | 19.26 |
|                 | 8H   | 18.02            | 18.47 | 18.55 | 18.98 | 19.48 | 18.02          | 18.47 | 18.55 | 18.98 | 19.48 |
|                 | 12H  | 18.19            | 18.58 | 18.71 | 19.08 | 19.65 | 18.19          | 18.58 | 18.71 | 19.08 | 19.65 |
| 12H             | 4H   | 17.05            | 17.59 | 17.54 | 18.07 | 18.55 | 17.05          | 17.59 | 17.54 | 18.07 | 18.55 |
|                 | 6H   | 17.80            | 18.24 | 18.32 | 18.76 | 19.26 | 17.80          | 18.24 | 18.32 | 18.76 | 19.26 |
|                 | 8H   | 18.09            | 18.48 | 18.61 | 18.98 | 19.56 | 18.09          | 18.48 | 18.61 | 18.98 | 19.56 |

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

8 of 8