

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: P1221273

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

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221273  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K\_L18\_Wide\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, TRANSLUCENT WHITE SHADE, WIDE DISTRIBUTION.  
LIGHT LEVEL 1 - 18,000 LUMENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

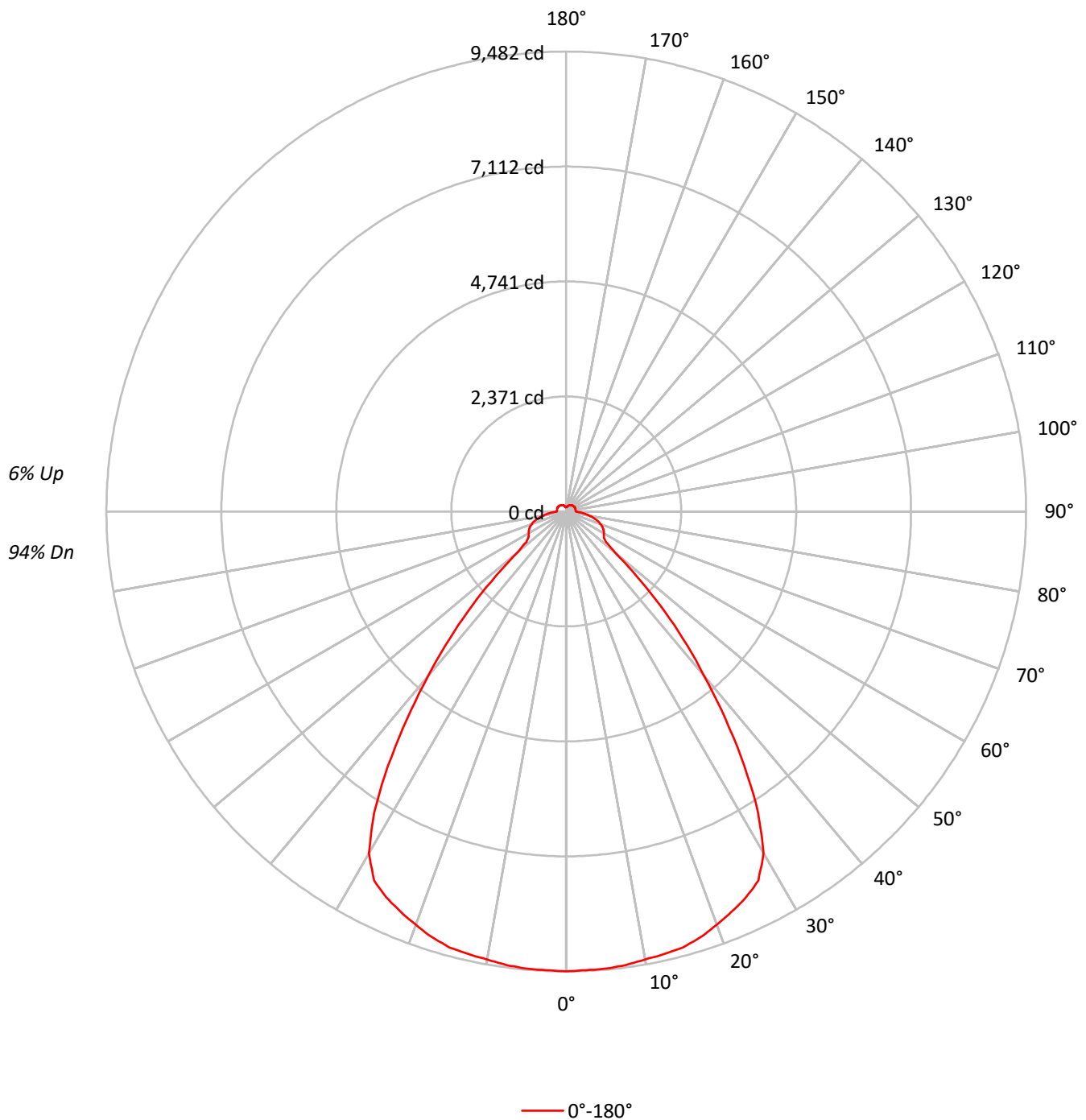
Lumens per Lamp: N/A  
Luminaire Lumens: 17472.1 lumens  
Efficiency: N/A  
Efficacy: 144.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.13  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot



CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (3500K\_L18\_Wide\_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   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 |    |  |  |
| 1   | 109 | 105 | 102 | 98  | 106 | 102 | 99  | 96  | 97  | 94  | 92  | 92  | 90  | 88  | 88 | 86 | 84 | 84 | 86 | 88 | 90 | 94 |    |  |  |
| 2   | 101 | 95  | 89  | 84  | 98  | 92  | 87  | 83  | 88  | 84  | 80  | 84  | 80  | 77  | 80 | 77 | 75 | 75 | 77 | 80 | 84 | 88 |    |  |  |
| 3   | 94  | 86  | 79  | 74  | 91  | 84  | 78  | 73  | 80  | 75  | 71  | 76  | 72  | 69  | 73 | 70 | 67 | 67 | 70 | 73 | 77 | 81 |    |  |  |
| 4   | 88  | 78  | 71  | 65  | 85  | 76  | 70  | 64  | 73  | 67  | 63  | 70  | 65  | 61  | 67 | 63 | 60 | 60 | 63 | 67 | 71 | 75 |    |  |  |
| 5   | 82  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 67  | 61  | 57  | 65  | 59  | 55  | 62 | 58 | 54 | 54 | 58 | 62 | 66 | 70 |    |  |  |
| 6   | 77  | 66  | 58  | 53  | 75  | 64  | 57  | 52  | 62  | 56  | 51  | 60  | 54  | 50  | 58 | 53 | 49 | 49 | 53 | 57 | 61 | 65 |    |  |  |
| 7   | 72  | 60  | 53  | 48  | 70  | 59  | 52  | 47  | 57  | 51  | 47  | 55  | 50  | 46  | 54 | 49 | 45 | 45 | 49 | 53 | 57 | 61 |    |  |  |
| 8   | 68  | 56  | 49  | 44  | 66  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 50 | 45 | 41 | 41 | 45 | 49 | 53 | 57 |    |  |  |
| 9   | 64  | 52  | 45  | 40  | 62  | 51  | 44  | 40  | 50  | 43  | 39  | 48  | 43  | 39  | 47 | 42 | 38 | 38 | 42 | 46 | 50 | 54 |    |  |  |
| 10  | 60  | 48  | 41  | 37  | 59  | 48  | 41  | 37  | 46  | 40  | 36  | 45  | 40  | 36  | 44 | 39 | 35 | 35 | 39 | 43 | 47 | 51 |    |  |  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 51834 |
| 5°  | 49608 |
| 10° | 47566 |
| 15° | 46037 |
| 20° | 44162 |
| 25° | 42363 |
| 30° | 39228 |
| 35° | 31078 |
| 40° | 21775 |
| 45° | 13778 |
| 50° | 6748  |
| 55° | 5138  |
| 60° | 5065  |
| 65° | 5052  |
| 70° | 4868  |
| 75° | 4420  |
| 80° | 3690  |
| 85° | 2809  |

**MAXIMUM LUMINANCE 45°-90°:**

Luminance: 13778 cd/sgm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 900.5   | 5.2       |
| 10°-20°   | 2623.7  | 15.0      |
| 20°-30°   | 4025.8  | 23.0      |
| 30°-40°   | 3948.9  | 22.6      |
| 40°-50°   | 2119.7  | 12.1      |
| 50°-60°   | 894.6   | 5.1       |
| 60°-70°   | 826.4   | 4.7       |
| 70°-80°   | 657.2   | 3.8       |
| 80°-90°   | 353.5   | 2.0       |
| 90°-100°  | 210.7   | 1.2       |
| 100°-110° | 208.0   | 1.2       |
| 110°-120° | 193.6   | 1.1       |
| 120°-130° | 167.8   | 1.0       |
| 130°-140° | 135.8   | 0.8       |
| 140°-150° | 100.0   | 0.6       |
| 150°-160° | 64.7    | 0.4       |
| 160°-170° | 32.4    | 0.2       |
| 170°-180° | 8.8     | 0.1       |
| 0°-30°    | 7549.9  | 43.2      |
| 0°-40°    | 11498.9 | 65.8      |
| 0°-60°    | 14513.1 | 83.1      |
| 0°-90°    | 16350.3 | 93.6      |
| 90°-120°  | 612.3   | 3.5       |
| 90°-150°  | 1015.9  | 5.8       |
| 90°-180°  | 1122.0  | 6.4       |
| 0°-180°   | 17472.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 9482 |      |
| 5°   | 9464 | 900  |
| 15°  | 9303 | 2624 |
| 25°  | 8779 | 4026 |
| 35°  | 6405 | 3949 |
| 45°  | 2738 | 2120 |
| 55°  | 952  | 895  |
| 65°  | 840  | 826  |
| 75°  | 628  | 657  |
| 85°  | 319  | 292  |
| 90°  | 201  | 115  |
| 95°  | 192  | 157  |
| 105° | 196  | 208  |
| 115° | 195  | 194  |
| 125° | 187  | 168  |
| 135° | 175  | 136  |
| 145° | 159  | 100  |
| 155° | 139  | 65   |
| 165° | 113  | 32   |
| 175° | 91   | 9    |
| 180° | 90   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 9481.5 |
| 2.5°   | 9463.9 |
| 5°     | 9463.9 |
| 7.5°   | 9431.2 |
| 10°    | 9378.6 |
| 12.5°  | 9347.0 |
| 15°    | 9302.6 |
| 17.5°  | 9207.8 |
| 20°    | 9072.2 |
| 22.5°  | 8928.3 |
| 25°    | 8778.7 |
| 27.5°  | 8576.4 |
| 30°    | 8137.8 |
| 32.5°  | 7367.2 |
| 35°    | 6404.8 |
| 37.5°  | 5388.6 |
| 40°    | 4423.8 |
| 42.5°  | 3562.0 |
| 45°    | 2737.6 |
| 47.5°  | 1958.7 |
| 50°    | 1300.4 |
| 52.5°  | 1034.9 |
| 55°    | 951.9  |
| 57.5°  | 918.0  |
| 60°    | 893.4  |
| 62.5°  | 870.0  |
| 65°    | 839.6  |
| 67.5°  | 801.0  |
| 70°    | 753.1  |
| 72.5°  | 695.8  |
| 75°    | 628.0  |
| 77.5°  | 552.0  |
| 80°    | 473.6  |
| 82.5°  | 395.3  |
| 85°    | 319.2  |
| 87.5°  | 245.6  |
| 90°    | 201.1  |
| 92.5°  | 189.4  |
| 95°    | 191.8  |
| 97.5°  | 193.0  |
| 100°   | 195.3  |
| 102.5° | 196.5  |
| 105°   | 196.5  |
| 107.5° | 197.6  |
| 110°   | 196.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 196.5 |
| 115°   | 195.3 |
| 117.5° | 194.1 |
| 120°   | 191.8 |
| 122.5° | 189.4 |
| 125°   | 187.1 |
| 127.5° | 184.8 |
| 130°   | 181.3 |
| 132.5° | 178.9 |
| 135°   | 175.4 |
| 137.5° | 171.9 |
| 140°   | 167.2 |
| 142.5° | 163.7 |
| 145°   | 159.0 |
| 147.5° | 154.4 |
| 150°   | 149.7 |
| 152.5° | 145.0 |
| 155°   | 139.2 |
| 157.5° | 133.3 |
| 160°   | 127.5 |
| 162.5° | 120.4 |
| 165°   | 113.4 |
| 167.5° | 105.2 |
| 170°   | 97.1  |
| 172.5° | 90.0  |
| 175°   | 91.2  |
| 177.5° | 91.2  |
| 180°   | 90.0  |

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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 | 13.60            | 14.80 | 14.08 | 15.25 | 15.73 | 13.60          | 14.80 | 14.08 | 15.25 | 15.73 |
|                 | 3H   | 16.02            | 17.10 | 16.51 | 17.56 | 18.08 | 16.02          | 17.10 | 16.51 | 17.56 | 18.08 |
|                 | 4H   | 16.98            | 17.99 | 17.50 | 18.47 | 19.01 | 16.98          | 17.99 | 17.50 | 18.47 | 19.01 |
|                 | 6H   | 17.73            | 18.66 | 18.25 | 19.16 | 19.70 | 17.73          | 18.66 | 18.25 | 19.16 | 19.70 |
|                 | 8H   | 18.00            | 18.88 | 18.53 | 19.40 | 19.95 | 18.00          | 18.88 | 18.53 | 19.40 | 19.95 |
|                 | 12H  | 18.20            | 19.05 | 18.74 | 19.56 | 20.14 | 18.20          | 19.05 | 18.74 | 19.56 | 20.14 |
| 4H              | 2H   | 14.30            | 15.30 | 14.81 | 15.78 | 16.32 | 14.30          | 15.30 | 14.81 | 15.78 | 16.32 |
|                 | 3H   | 16.88            | 17.72 | 17.40 | 18.25 | 18.80 | 16.88          | 17.72 | 17.40 | 18.25 | 18.80 |
|                 | 4H   | 17.96            | 18.72 | 18.50 | 19.26 | 19.85 | 17.96          | 18.72 | 18.50 | 19.26 | 19.85 |
|                 | 6H   | 18.83            | 19.49 | 19.40 | 20.05 | 20.66 | 18.83          | 19.49 | 19.40 | 20.05 | 20.66 |
|                 | 8H   | 19.15            | 19.77 | 19.72 | 20.33 | 20.95 | 19.15          | 19.77 | 19.72 | 20.33 | 20.95 |
|                 | 12H  | 19.41            | 19.96 | 20.00 | 20.55 | 21.17 | 19.41          | 19.96 | 20.00 | 20.55 | 21.17 |
| 8H              | 4H   | 18.29            | 18.91 | 18.86 | 19.47 | 20.08 | 18.29          | 18.91 | 18.86 | 19.47 | 20.08 |
|                 | 6H   | 19.29            | 19.80 | 19.89 | 20.41 | 21.03 | 19.29          | 19.80 | 19.89 | 20.41 | 21.03 |
|                 | 8H   | 19.70            | 20.16 | 20.32 | 20.78 | 21.42 | 19.70          | 20.16 | 20.32 | 20.78 | 21.42 |
|                 | 12H  | 20.07            | 20.47 | 20.68 | 21.07 | 21.78 | 20.07          | 20.47 | 20.68 | 21.07 | 21.78 |
| 12H             | 4H   | 18.31            | 18.87 | 18.90 | 19.46 | 20.08 | 18.31          | 18.87 | 18.90 | 19.46 | 20.08 |
|                 | 6H   | 19.35            | 19.81 | 19.98 | 20.43 | 21.07 | 19.35          | 19.81 | 19.98 | 20.43 | 21.07 |
|                 | 8H   | 19.83            | 20.23 | 20.44 | 20.83 | 21.54 | 19.83          | 20.23 | 20.44 | 20.83 | 21.54 |

END OF REPORT