

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: P1221289

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-TRWH-08 (5000K\_L18\_Medium\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221289  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-20)  
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 (5000K\_L18\_Medium\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, TRANSLUCENT WHITE SHADE, MEDIUM DISTRIBUTION.  
LIGHT LEVEL 1 - 18,000 LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

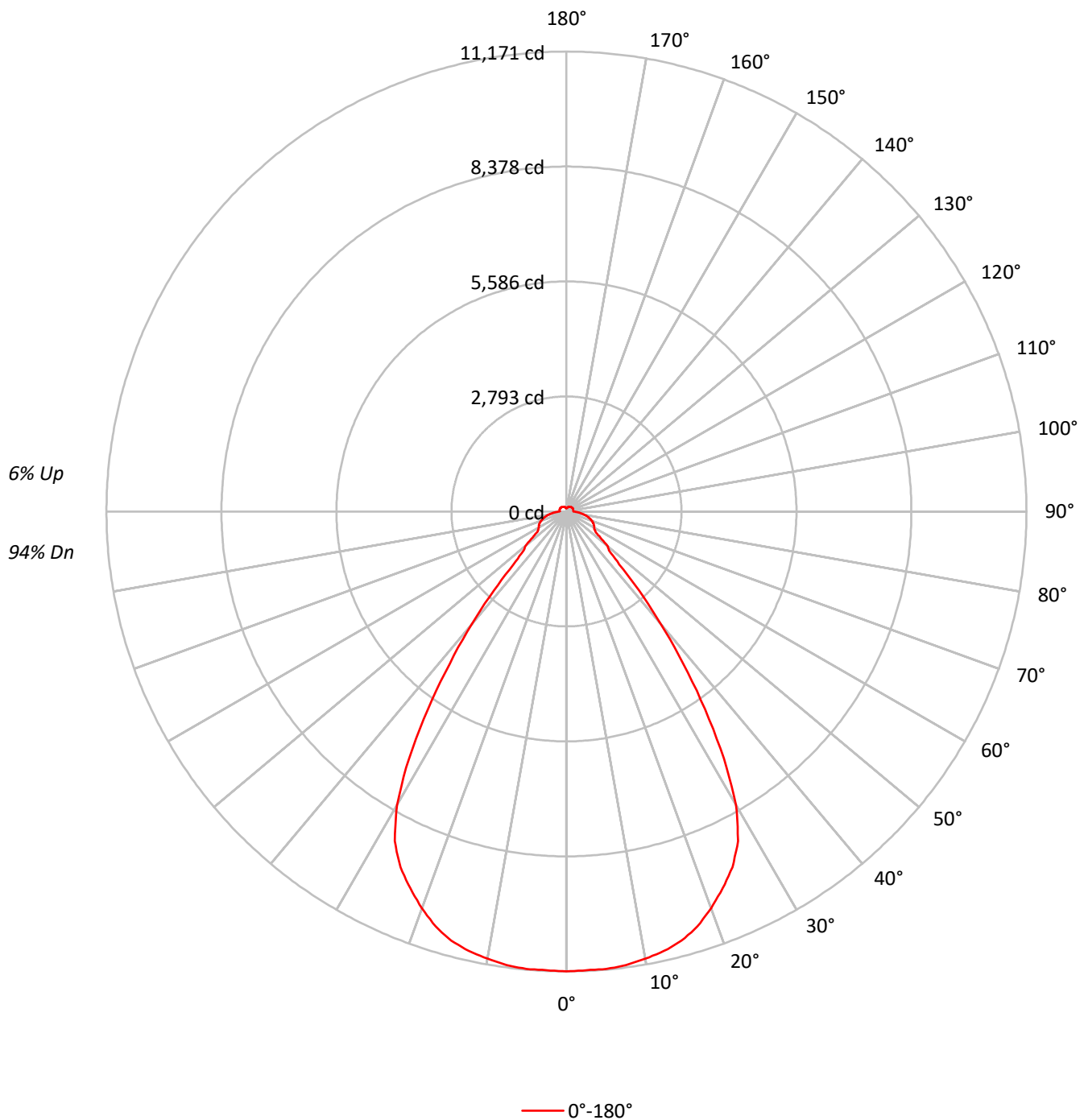
Lumens per Lamp: N/A  
Luminaire Lumens: 17078.5 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.03  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')  
CIE Type: Direct

Input Watts (W): 119.4  
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 | 0  |  |  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |  |  |
| 0   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 94 |  |  |
| 1   | 110 | 106 | 102 | 99  | 106 | 103 | 100 | 97  | 98  | 95  | 93  | 93  | 91  | 89  | 89 | 87 | 86 | 83 |  |  |
| 2   | 102 | 96  | 90  | 86  | 99  | 93  | 89  | 84  | 89  | 85  | 82  | 85  | 82  | 79  | 82 | 79 | 77 | 74 |  |  |
| 3   | 96  | 87  | 81  | 76  | 93  | 85  | 79  | 75  | 82  | 77  | 73  | 78  | 74  | 71  | 75 | 72 | 69 | 67 |  |  |
| 4   | 89  | 80  | 73  | 68  | 87  | 78  | 72  | 67  | 75  | 70  | 65  | 72  | 68  | 64  | 70 | 66 | 63 | 61 |  |  |
| 5   | 84  | 73  | 66  | 61  | 82  | 72  | 65  | 60  | 69  | 64  | 59  | 67  | 62  | 58  | 65 | 61 | 57 | 55 |  |  |
| 6   | 79  | 68  | 61  | 55  | 77  | 67  | 60  | 55  | 64  | 58  | 54  | 62  | 57  | 53  | 60 | 56 | 52 | 51 |  |  |
| 7   | 74  | 63  | 56  | 51  | 72  | 62  | 55  | 50  | 60  | 54  | 50  | 58  | 53  | 49  | 56 | 52 | 48 | 46 |  |  |
| 8   | 70  | 58  | 51  | 47  | 68  | 58  | 51  | 46  | 56  | 50  | 46  | 54  | 49  | 45  | 53 | 48 | 45 | 43 |  |  |
| 9   | 66  | 55  | 48  | 43  | 64  | 54  | 47  | 43  | 52  | 46  | 42  | 51  | 46  | 42  | 50 | 45 | 41 | 40 |  |  |
| 10  | 62  | 51  | 44  | 40  | 61  | 50  | 44  | 40  | 49  | 43  | 39  | 48  | 43  | 39  | 47 | 42 | 39 | 37 |  |  |

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

|     | 0°    |
|-----|-------|
| 0°  | 61071 |
| 5°  | 58470 |
| 10° | 55946 |
| 15° | 53432 |
| 20° | 49936 |
| 25° | 46001 |
| 30° | 39696 |
| 35° | 28462 |
| 40° | 17571 |
| 45° | 9141  |
| 50° | 6760  |
| 55° | 4656  |
| 60° | 4414  |
| 65° | 4381  |
| 70° | 4210  |
| 75° | 3893  |
| 80° | 3365  |
| 85° | 2586  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $0^\circ$ 

Vertical Angle:  $45^\circ$

Luminance: 9141 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1060.8  | 6.2       |
| 10°-20°   | 3032.6  | 17.8      |
| 20°-30°   | 4338.6  | 25.4      |
| 30°-40°   | 3638.4  | 21.3      |
| 40°-50°   | 1573.5  | 9.2       |
| 50°-60°   | 834.2   | 4.9       |
| 60°-70°   | 716.9   | 4.2       |
| 70°-80°   | 579.6   | 3.4       |
| 80°-90°   | 323.2   | 1.9       |
| 90°-100°  | 183.8   | 1.1       |
| 100°-110° | 181.3   | 1.1       |
| 110°-120° | 168.9   | 1.0       |
| 120°-130° | 146.4   | 0.9       |
| 130°-140° | 118.3   | 0.7       |
| 140°-150° | 87.6    | 0.5       |
| 150°-160° | 57.3    | 0.3       |
| 160°-170° | 29.1    | 0.2       |
| 170°-180° | 8.0     | 0.0       |
| 0°-30°    | 8431.9  | 49.4      |
| 0°-40°    | 12070.4 | 70.7      |
| 0°-60°    | 14478.0 | 84.8      |
| 0°-90°    | 16097.7 | 94.3      |
| 90°-120°  | 534.0   | 3.1       |
| 90°-150°  | 886.3   | 5.2       |
| 90°-180°  | 981.0   | 5.7       |
| 0°-180°   | 17078.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 11171 |      |
| 5°   | 11154 | ###  |
| 15°  | 10797 | 3033 |
| 25°  | 9533  | 4339 |
| 35°  | 5866  | 3638 |
| 45°  | 1816  | 1573 |
| 55°  | 862   | 834  |
| 65°  | 728   | 717  |
| 75°  | 553   | 580  |
| 85°  | 294   | 269  |
| 90°  | 178   | 102  |
| 95°  | 167   | 137  |
| 105° | 172   | 181  |
| 115° | 170   | 169  |
| 125° | 163   | 146  |
| 135° | 152   | 118  |
| 145° | 139   | 88   |
| 155° | 124   | 57   |
| 165° | 102   | 29   |
| 175° | 83    | 8    |
| 180° | 83    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 11171.2 |
| 2.5°   | 11153.2 |
| 5°     | 11154.4 |
| 7.5°   | 11114.9 |
| 10°    | 11030.9 |
| 12.5°  | 10936.1 |
| 15°    | 10797.0 |
| 17.5°  | 10569.1 |
| 20°    | 10258.4 |
| 22.5°  | 9910.5  |
| 25°    | 9532.7  |
| 27.5°  | 9027.7  |
| 30°    | 8234.8  |
| 32.5°  | 7115.6  |
| 35°    | 5865.7  |
| 37.5°  | 4655.4  |
| 40°    | 3569.8  |
| 42.5°  | 2600.6  |
| 45°    | 1816.1  |
| 47.5°  | 1401.1  |
| 50°    | 1302.7  |
| 52.5°  | 1029.2  |
| 55°    | 862.5   |
| 57.5°  | 806.1   |
| 60°    | 778.5   |
| 62.5°  | 755.7   |
| 65°    | 728.1   |
| 67.5°  | 693.3   |
| 70°    | 651.3   |
| 72.5°  | 604.6   |
| 75°    | 553.0   |
| 77.5°  | 495.4   |
| 80°    | 431.8   |
| 82.5°  | 365.9   |
| 85°    | 293.9   |
| 87.5°  | 221.9   |
| 90°    | 177.5   |
| 92.5°  | 164.3   |
| 95°    | 166.7   |
| 97.5°  | 169.1   |
| 100°   | 170.3   |
| 102.5° | 171.5   |
| 105°   | 171.5   |
| 107.5° | 171.5   |
| 110°   | 171.5   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 171.5 |
| 115°   | 170.3 |
| 117.5° | 169.1 |
| 120°   | 167.9 |
| 122.5° | 165.5 |
| 125°   | 163.1 |
| 127.5° | 160.7 |
| 130°   | 158.3 |
| 132.5° | 155.9 |
| 135°   | 152.3 |
| 137.5° | 149.9 |
| 140°   | 146.3 |
| 142.5° | 142.7 |
| 145°   | 139.1 |
| 147.5° | 135.5 |
| 150°   | 131.9 |
| 152.5° | 128.3 |
| 155°   | 123.6 |
| 157.5° | 118.8 |
| 160°   | 112.8 |
| 162.5° | 108.0 |
| 165°   | 102.0 |
| 167.5° | 94.8  |
| 170°   | 88.8  |
| 172.5° | 82.8  |
| 175°   | 82.8  |
| 177.5° | 82.8  |
| 180°   | 82.8  |

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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 | 12.87            | 14.02 | 13.33 | 14.46 | 14.92 | 12.87          | 14.02 | 13.33 | 14.46 | 14.92 |
|                 | 3H   | 15.23            | 16.26 | 15.71 | 16.71 | 17.22 | 15.23          | 16.26 | 15.71 | 16.71 | 17.22 |
|                 | 4H   | 16.20            | 17.17 | 16.70 | 17.64 | 18.16 | 16.20          | 17.17 | 16.70 | 17.64 | 18.16 |
|                 | 6H   | 16.99            | 17.89 | 17.51 | 18.37 | 18.91 | 16.99          | 17.89 | 17.51 | 18.37 | 18.91 |
|                 | 8H   | 17.29            | 18.14 | 17.82 | 18.64 | 19.18 | 17.29          | 18.14 | 17.82 | 18.64 | 19.18 |
|                 | 12H  | 17.51            | 18.33 | 18.05 | 18.82 | 19.39 | 17.51          | 18.33 | 18.05 | 18.82 | 19.39 |
| 4H              | 2H   | 13.53            | 14.50 | 14.04 | 14.97 | 15.49 | 13.53          | 14.50 | 14.04 | 14.97 | 15.49 |
|                 | 3H   | 16.07            | 16.88 | 16.58 | 17.39 | 17.93 | 16.07          | 16.88 | 16.58 | 17.39 | 17.93 |
|                 | 4H   | 17.16            | 17.89 | 17.69 | 18.42 | 19.00 | 17.16          | 17.89 | 17.69 | 18.42 | 19.00 |
|                 | 6H   | 18.09            | 18.72 | 18.65 | 19.27 | 19.87 | 18.09          | 18.72 | 18.65 | 19.27 | 19.87 |
|                 | 8H   | 18.44            | 19.03 | 19.00 | 19.58 | 20.19 | 18.44          | 19.03 | 19.00 | 19.58 | 20.19 |
|                 | 12H  | 18.72            | 19.25 | 19.30 | 19.83 | 20.44 | 18.72          | 19.25 | 19.30 | 19.83 | 20.44 |
| 8H              | 4H   | 17.49            | 18.09 | 18.06 | 18.64 | 19.24 | 17.49          | 18.09 | 18.06 | 18.64 | 19.24 |
|                 | 6H   | 18.56            | 19.05 | 19.16 | 19.65 | 20.26 | 18.56          | 19.05 | 19.16 | 19.65 | 20.26 |
|                 | 8H   | 19.01            | 19.45 | 19.63 | 20.06 | 20.69 | 19.01          | 19.45 | 19.63 | 20.06 | 20.69 |
|                 | 12H  | 19.41            | 19.79 | 20.01 | 20.38 | 21.08 | 19.41          | 19.79 | 20.01 | 20.38 | 21.08 |
| 12H             | 4H   | 17.53            | 18.05 | 18.11 | 18.64 | 19.24 | 17.53          | 18.05 | 18.11 | 18.64 | 19.24 |
|                 | 6H   | 18.64            | 19.08 | 19.25 | 19.69 | 20.31 | 18.64          | 19.08 | 19.25 | 19.69 | 20.31 |
|                 | 8H   | 19.15            | 19.53 | 19.76 | 20.13 | 20.82 | 19.15          | 19.53 | 19.76 | 20.13 | 20.82 |