

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: P1221228

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

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221228  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (3500K\_L18\_Wide\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, CLEAR SHADE, WIDE DISTRIBUTION.  
LIGHT LEVEL 1 - 18,000 LUMENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

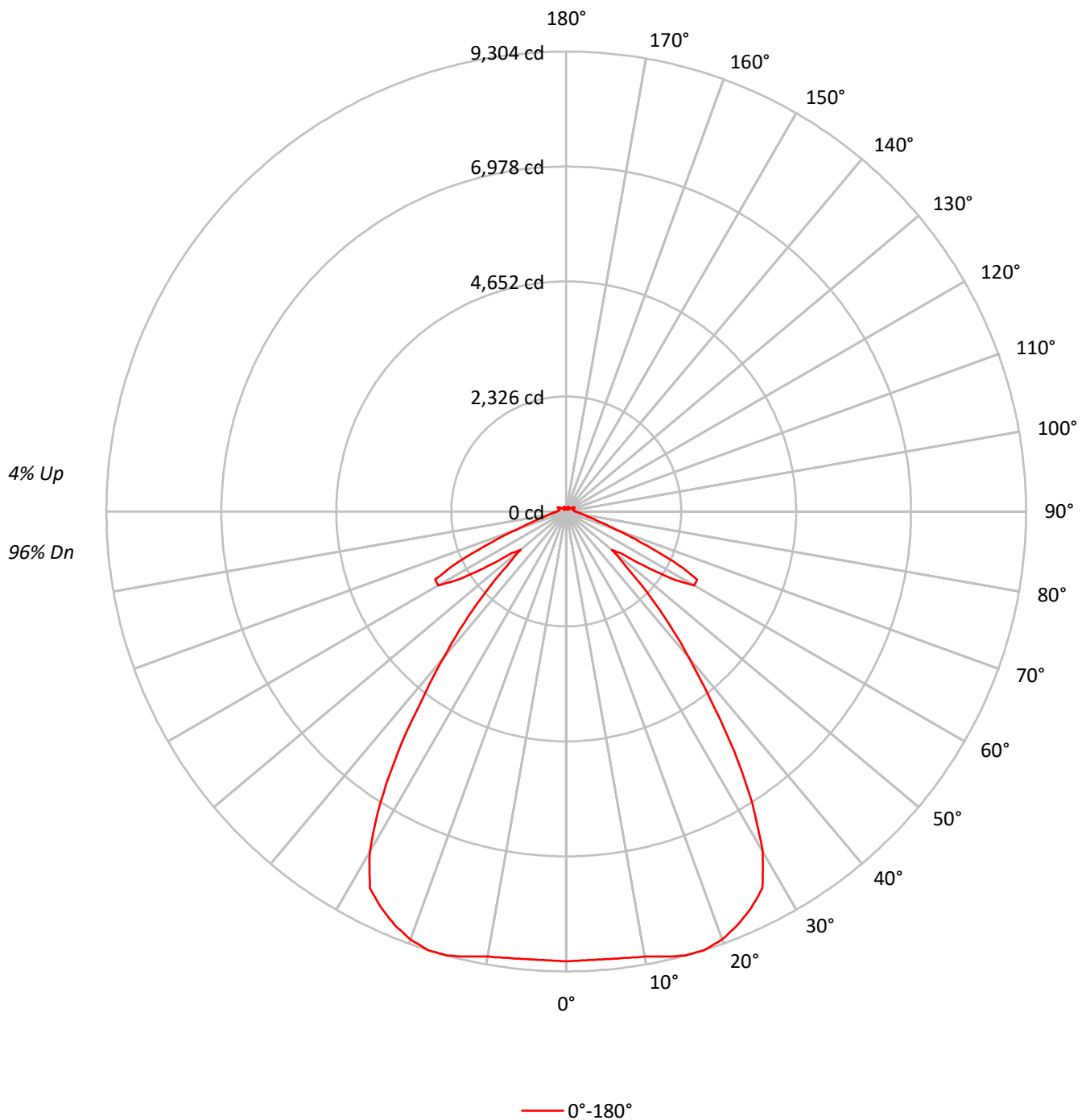
Lumens per Lamp: N/A  
Luminaire Lumens: 18699.2 lumens  
Efficiency: N/A  
Efficacy: 154.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.1  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')  
CIE Type: Direct

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





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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   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 98 | 98 | 98 | 98 | 98 |    |  |  |
| 1   | 109 | 105 | 101 | 98  | 106 | 102 | 99  | 96  | 97  | 95  | 92  | 93  | 91  | 89  | 89 | 87 | 85 | 85 | 85 | 85 | 85 | 83 |    |  |  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 87  | 82  | 79  | 83  | 79  | 76  | 80 | 77 | 74 | 74 | 74 | 74 | 72 | 72 |    |  |  |
| 3   | 93  | 83  | 76  | 71  | 90  | 82  | 75  | 70  | 78  | 73  | 68  | 75  | 70  | 66  | 72 | 68 | 65 | 65 | 65 | 65 | 63 | 63 |    |  |  |
| 4   | 86  | 75  | 67  | 61  | 83  | 74  | 66  | 61  | 71  | 65  | 60  | 68  | 63  | 58  | 66 | 61 | 57 | 57 | 57 | 55 | 55 |    |    |  |  |
| 5   | 80  | 68  | 60  | 54  | 78  | 67  | 59  | 54  | 65  | 58  | 53  | 62  | 57  | 52  | 60 | 55 | 51 | 51 | 51 | 49 | 49 |    |    |  |  |
| 6   | 74  | 62  | 54  | 49  | 72  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 51  | 47  | 55 | 50 | 46 | 46 | 46 | 44 | 44 |    |    |  |  |
| 7   | 70  | 57  | 49  | 44  | 68  | 56  | 49  | 44  | 55  | 48  | 43  | 53  | 47  | 42  | 51 | 46 | 42 | 42 | 42 | 40 | 40 |    |    |  |  |
| 8   | 65  | 53  | 45  | 40  | 64  | 52  | 45  | 40  | 51  | 44  | 39  | 49  | 43  | 39  | 48 | 42 | 38 | 38 | 38 | 37 | 37 |    |    |  |  |
| 9   | 61  | 49  | 42  | 37  | 60  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 44 | 39 | 35 | 35 | 35 | 34 | 34 |    |    |  |  |
| 10  | 58  | 46  | 39  | 34  | 57  | 45  | 38  | 34  | 44  | 38  | 33  | 43  | 37  | 33  | 42 | 36 | 33 | 33 | 33 | 31 | 31 |    |    |  |  |

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

|     | 0°    |
|-----|-------|
| 0°  | 49749 |
| 5°  | 47665 |
| 10° | 46367 |
| 15° | 46031 |
| 20° | 44862 |
| 25° | 42724 |
| 30° | 38326 |
| 35° | 28780 |
| 40° | 19012 |
| 45° | 11577 |
| 50° | 6263  |
| 55° | 10271 |
| 60° | 16946 |
| 65° | 14405 |
| 70° | 6908  |
| 75° | 3729  |
| 80° | 2661  |
| 85° | 2171  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $0^\circ$ 

Vertical Angle:  $62.5^\circ$

Luminance: 17427 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 869.5   | 4.7       |
| 10°-20°   | 2624.3  | 14.0      |
| 20°-30°   | 4045.0  | 21.6      |
| 30°-40°   | 3657.2  | 19.6      |
| 40°-50°   | 1812.7  | 9.7       |
| 50°-60°   | 1791.1  | 9.6       |
| 60°-70°   | 2230.9  | 11.9      |
| 70°-80°   | 625.7   | 3.3       |
| 80°-90°   | 275.2   | 1.5       |
| 90°-100°  | 175.8   | 0.9       |
| 100°-110° | 155.6   | 0.8       |
| 110°-120° | 170.2   | 0.9       |
| 120°-130° | 106.3   | 0.6       |
| 130°-140° | 42.0    | 0.2       |
| 140°-150° | 44.9    | 0.2       |
| 150°-160° | 45.2    | 0.2       |
| 160°-170° | 22.7    | 0.1       |
| 170°-180° | 4.9     | 0.0       |
| 0°-30°    | 7538.8  | 40.3      |
| 0°-40°    | 11196.0 | 59.9      |
| 0°-60°    | 14799.8 | 79.1      |
| 0°-90°    | 17931.6 | 95.9      |
| 90°-120°  | 501.5   | 2.7       |
| 90°-150°  | 694.8   | 3.7       |
| 90°-180°  | 768.0   | 4.1       |
| 0°-180°   | 18699.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 9100 |      |
| 5°   | 9093 | 870  |
| 15°  | 9301 | 2624 |
| 25°  | 8854 | 4045 |
| 35°  | 5931 | 3657 |
| 45°  | 2300 | 1813 |
| 55°  | 1903 | 1791 |
| 65°  | 2394 | 2231 |
| 75°  | 530  | 626  |
| 85°  | 247  | 221  |
| 90°  | 181  | 101  |
| 95°  | 157  | 128  |
| 105° | 153  | 156  |
| 115° | 191  | 170  |
| 125° | 116  | 106  |
| 135° | 50   | 42   |
| 145° | 72   | 45   |
| 155° | 99   | 45   |
| 165° | 80   | 23   |
| 175° | 47   | 5    |
| 180° | 43   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 9100.2 |
| 2.5°   | 9086.2 |
| 5°     | 9093.2 |
| 7.5°   | 9109.6 |
| 10°    | 9142.3 |
| 12.5°  | 9225.4 |
| 15°    | 9301.4 |
| 17.5°  | 9303.7 |
| 20°    | 9216.0 |
| 22.5°  | 9055.8 |
| 25°    | 8853.5 |
| 27.5°  | 8595.1 |
| 30°    | 7950.7 |
| 32.5°  | 7007.0 |
| 35°    | 5931.2 |
| 37.5°  | 4772.3 |
| 40°    | 3862.5 |
| 42.5°  | 3056.8 |
| 45°    | 2300.2 |
| 47.5°  | 1620.8 |
| 50°    | 1206.8 |
| 52.5°  | 1378.7 |
| 55°    | 1902.6 |
| 57.5°  | 2530.6 |
| 60°    | 2989.0 |
| 62.5°  | 2987.8 |
| 65°    | 2393.8 |
| 67.5°  | 1636.0 |
| 70°    | 1068.8 |
| 72.5°  | 732.0  |
| 75°    | 529.7  |
| 77.5°  | 409.3  |
| 80°    | 341.5  |
| 82.5°  | 290.0  |
| 85°    | 246.7  |
| 87.5°  | 211.7  |
| 90°    | 181.3  |
| 92.5°  | 166.1  |
| 95°    | 156.7  |
| 97.5°  | 153.2  |
| 100°   | 155.5  |
| 102.5° | 156.7  |
| 105°   | 153.2  |
| 107.5° | 135.7  |
| 110°   | 128.6  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 157.9 |
| 115°   | 190.6 |
| 117.5° | 189.4 |
| 120°   | 169.6 |
| 122.5° | 143.8 |
| 125°   | 115.8 |
| 127.5° | 90.0  |
| 130°   | 71.3  |
| 132.5° | 58.5  |
| 135°   | 50.3  |
| 137.5° | 46.8  |
| 140°   | 49.1  |
| 142.5° | 57.3  |
| 145°   | 72.5  |
| 147.5° | 87.7  |
| 150°   | 95.9  |
| 152.5° | 99.4  |
| 155°   | 99.4  |
| 157.5° | 97.1  |
| 160°   | 93.6  |
| 162.5° | 87.7  |
| 165°   | 79.5  |
| 167.5° | 69.0  |
| 170°   | 59.6  |
| 172.5° | 51.5  |
| 175°   | 46.8  |
| 177.5° | 44.4  |
| 180°   | 43.3  |

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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 | 20.48            | 21.82 | 20.91 | 22.23 | 22.64 | 20.48          | 21.82 | 20.91 | 22.23 | 22.64 |
|                 | 3H   | 21.60            | 22.82 | 22.05 | 23.23 | 23.70 | 21.60          | 22.82 | 22.05 | 23.23 | 23.70 |
|                 | 4H   | 21.71            | 22.85 | 22.18 | 23.28 | 23.76 | 21.71          | 22.85 | 22.18 | 23.28 | 23.76 |
|                 | 6H   | 21.75            | 22.80 | 22.23 | 23.25 | 23.75 | 21.75          | 22.80 | 22.23 | 23.25 | 23.75 |
|                 | 8H   | 21.76            | 22.76 | 22.25 | 23.23 | 23.73 | 21.76          | 22.76 | 22.25 | 23.23 | 23.73 |
|                 | 12H  | 21.76            | 22.72 | 22.26 | 23.19 | 23.72 | 21.76          | 22.72 | 22.26 | 23.19 | 23.72 |
| 4H              | 2H   | 21.26            | 22.40 | 21.73 | 22.83 | 23.31 | 21.26          | 22.40 | 21.73 | 22.83 | 23.31 |
|                 | 3H   | 22.29            | 23.25 | 22.77 | 23.73 | 24.23 | 22.29          | 23.25 | 22.77 | 23.73 | 24.23 |
|                 | 4H   | 22.41            | 23.28 | 22.91 | 23.77 | 24.31 | 22.41          | 23.28 | 22.91 | 23.77 | 24.31 |
|                 | 6H   | 22.49            | 23.24 | 23.02 | 23.76 | 24.32 | 22.49          | 23.24 | 23.02 | 23.76 | 24.32 |
|                 | 8H   | 22.52            | 23.21 | 23.05 | 23.73 | 24.30 | 22.52          | 23.21 | 23.05 | 23.73 | 24.30 |
|                 | 12H  | 22.54            | 23.16 | 23.10 | 23.71 | 24.28 | 22.54          | 23.16 | 23.10 | 23.71 | 24.28 |
| 8H              | 4H   | 22.40            | 23.10 | 22.93 | 23.62 | 24.18 | 22.40          | 23.10 | 22.93 | 23.62 | 24.18 |
|                 | 6H   | 22.51            | 23.08 | 23.08 | 23.65 | 24.22 | 22.51          | 23.08 | 23.08 | 23.65 | 24.22 |
|                 | 8H   | 22.57            | 23.07 | 23.15 | 23.65 | 24.23 | 22.57          | 23.07 | 23.15 | 23.65 | 24.23 |
|                 | 12H  | 22.64            | 23.07 | 23.22 | 23.64 | 24.30 | 22.64          | 23.07 | 23.22 | 23.64 | 24.30 |
| 12H             | 4H   | 22.37            | 22.99 | 22.93 | 23.55 | 24.11 | 22.37          | 22.99 | 22.93 | 23.55 | 24.11 |
|                 | 6H   | 22.49            | 22.99 | 23.07 | 23.57 | 24.16 | 22.49          | 22.99 | 23.07 | 23.57 | 24.16 |
|                 | 8H   | 22.58            | 23.01 | 23.16 | 23.58 | 24.23 | 22.58          | 23.01 | 23.16 | 23.58 | 24.23 |