

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: P1221203

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-BLAK-08 (6500K\_L12\_Narrow\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221203  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS2-1218-MV-L8C5-BLAK-08 (6500K\_L12\_Narrow\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, BLACK SHADE, NARROW DISTRIBUTION.  
LIGHT LEVEL 1 - 12,000 LUMENS  
Light Source: 6500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

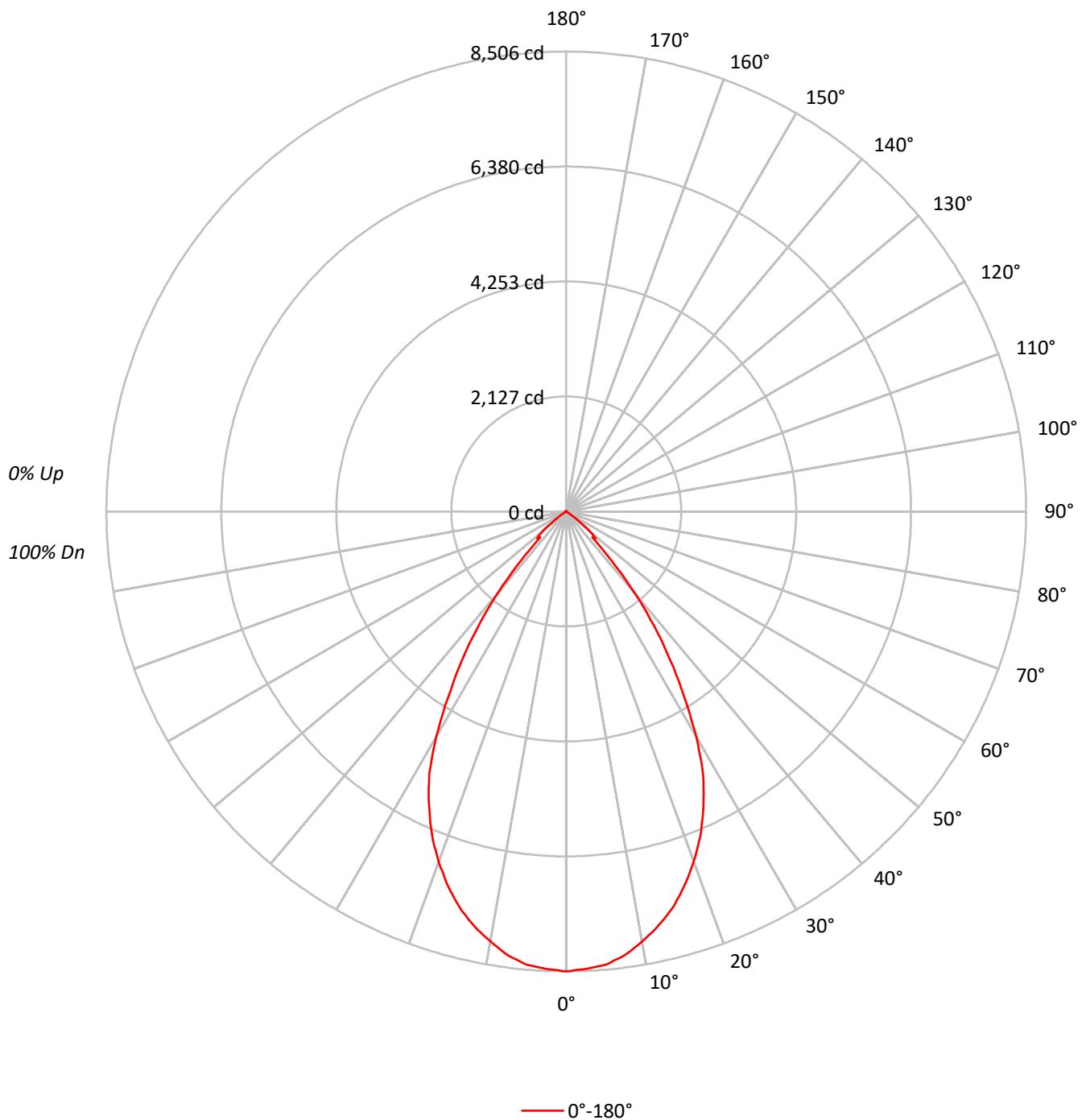
Lumens per Lamp: N/A  
Luminaire Lumens: 8662.8 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 0.97 / 0.97 / 0.95  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')  
CIE Type: Direct

Input Watts (W): 82.6  
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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 95  | 93  |    |    |
| 2   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 97  | 94  | 91  | 94  | 92  | 89  | 92  | 89  | 88  | 86  |    |    |
| 3   | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 84  | 88  | 85  | 82  | 86  | 83  | 81  | 79  |    |    |
| 4   | 96  | 88  | 83  | 78  | 94  | 87  | 82  | 78  | 85  | 80  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 73  |    |    |
| 5   | 91  | 82  | 76  | 72  | 89  | 81  | 76  | 71  | 79  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 68  |    |    |
| 6   | 86  | 77  | 71  | 66  | 85  | 76  | 70  | 66  | 74  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 64  | 63  |    |    |
| 7   | 82  | 72  | 66  | 61  | 80  | 71  | 65  | 61  | 70  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 59  |    |    |
| 8   | 77  | 67  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 60  | 57  | 65  | 60  | 56  | 64  | 59  | 56  | 55  |    |    |
| 9   | 73  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 52  | 51  |    |    |
| 10  | 70  | 60  | 54  | 50  | 69  | 59  | 53  | 50  | 58  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 48  |    |    |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 46500 |
| 5°  | 44104 |
| 10° | 40963 |
| 15° | 37574 |
| 20° | 33555 |
| 25° | 28999 |
| 30° | 23149 |
| 35° | 16271 |
| 40° | 9718  |
| 45° | 3406  |
| 50° | 2955  |
| 55° | 429   |
| 60° | 120   |
| 65° | 112   |
| 70° | 104   |
| 75° | 89    |
| 80° | 65    |
| 85° | 37    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 3757 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 792.2  | 9.1       |
| 10°-20°   | 2123.1 | 24.5      |
| 20°-30°   | 2730.3 | 31.5      |
| 30°-40°   | 2081.3 | 24.0      |
| 40°-50°   | 743.9  | 8.6       |
| 50°-60°   | 148.0  | 1.7       |
| 60°-70°   | 18.2   | 0.2       |
| 70°-80°   | 13.3   | 0.2       |
| 80°-90°   | 4.8    | 0.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.1    | 0.0       |
| 130°-140° | 0.9    | 0.0       |
| 140°-150° | 1.9    | 0.0       |
| 150°-160° | 2.2    | 0.0       |
| 160°-170° | 1.8    | 0.0       |
| 170°-180° | 0.7    | 0.0       |
| <hr/>     |        |           |
| 0°-30°    | 5645.7 | 65.2      |
| 0°-40°    | 7727.0 | 89.2      |
| 0°-60°    | 8618.9 | 99.5      |
| 0°-90°    | 8655.2 | 99.9      |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 2.8    | 0.0       |
| 90°-180°  | 8.0    | 0.1       |
| 0°-180°   | 8662.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 8506 |      |
| 5°   | 8414 | 792  |
| 15°  | 7593 | 2123 |
| 25°  | 6009 | 2730 |
| 35°  | 3353 | 2081 |
| 45°  | 677  | 744  |
| 55°  | 79   | 148  |
| 65°  | 19   | 18   |
| 75°  | 13   | 13   |
| 85°  | 4    | 4    |
| 90°  | 0    | 0    |
| 95°  | 0    | 0    |
| 105° | 0    | 0    |
| 115° | 0    | 0    |
| 125° | 0    | 0    |
| 135° | 1    | 1    |
| 145° | 3    | 2    |
| 155° | 5    | 2    |
| 165° | 7    | 2    |
| 175° | 8    | 1    |
| 180° | 8    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 8505.9 |
| 2.5°   | 8467.0 |
| 5°     | 8413.8 |
| 7.5°   | 8279.4 |
| 10°    | 8076.7 |
| 12.5°  | 7856.2 |
| 15°    | 7592.6 |
| 17.5°  | 7266.5 |
| 20°    | 6893.1 |
| 22.5°  | 6487.5 |
| 25°    | 6009.4 |
| 27.5°  | 5490.6 |
| 30°    | 4802.1 |
| 32.5°  | 4061.2 |
| 35°    | 3353.2 |
| 37.5°  | 2668.9 |
| 40°    | 1974.4 |
| 42.5°  | 1225.9 |
| 45°    | 676.7  |
| 47.5°  | 735.9  |
| 50°    | 569.4  |
| 52.5°  | 269.5  |
| 55°    | 79.4   |
| 57.5°  | 35.5   |
| 60°    | 21.1   |
| 62.5°  | 19.4   |
| 65°    | 18.6   |
| 67.5°  | 16.9   |
| 70°    | 16.1   |
| 72.5°  | 14.4   |
| 75°    | 12.7   |
| 77.5°  | 11.0   |
| 80°    | 8.4    |
| 82.5°  | 6.8    |
| 85°    | 4.2    |
| 87.5°  | 2.5    |
| 90°    | 0.0    |
| 92.5°  | 0.0    |
| 95°    | 0.0    |
| 97.5°  | 0.0    |
| 100°   | 0.0    |
| 102.5° | 0.0    |
| 105°   | 0.0    |
| 107.5° | 0.0    |
| 110°   | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  |
|--------|-----|
| 112.5° | 0.0 |
| 115°   | 0.0 |
| 117.5° | 0.0 |
| 120°   | 0.0 |
| 122.5° | 0.0 |
| 125°   | 0.0 |
| 127.5° | 0.0 |
| 130°   | 0.8 |
| 132.5° | 0.8 |
| 135°   | 0.8 |
| 137.5° | 1.7 |
| 140°   | 1.7 |
| 142.5° | 2.5 |
| 145°   | 3.4 |
| 147.5° | 3.4 |
| 150°   | 4.2 |
| 152.5° | 4.2 |
| 155°   | 5.1 |
| 157.5° | 5.1 |
| 160°   | 5.9 |
| 162.5° | 5.9 |
| 165°   | 6.8 |
| 167.5° | 6.8 |
| 170°   | 7.6 |
| 172.5° | 7.6 |
| 175°   | 7.6 |
| 177.5° | 7.6 |
| 180°   | 7.6 |

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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 | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 4H              | 2H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 8H              | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 12H             | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |

END OF REPORT