

Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P1504238

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-U-A-04-BLAK-PS (4000K\_L18\_Narrow\_120V)

Issue Date: 7/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1504238  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2602-677-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS2-1218-MV-L8C5-U-A-04-BLAK-PS (4000K\_L18\_Narrow\_120V)  
Description: PrentaLux UHBS2 4-INCH SELECTABLE HIGH BAY 1218 LIGHT ENGINE, DOMIC BLACK SHADE, NARROW DISTRIBUTION  
LIGHT LEVEL 1 - 18,000 LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

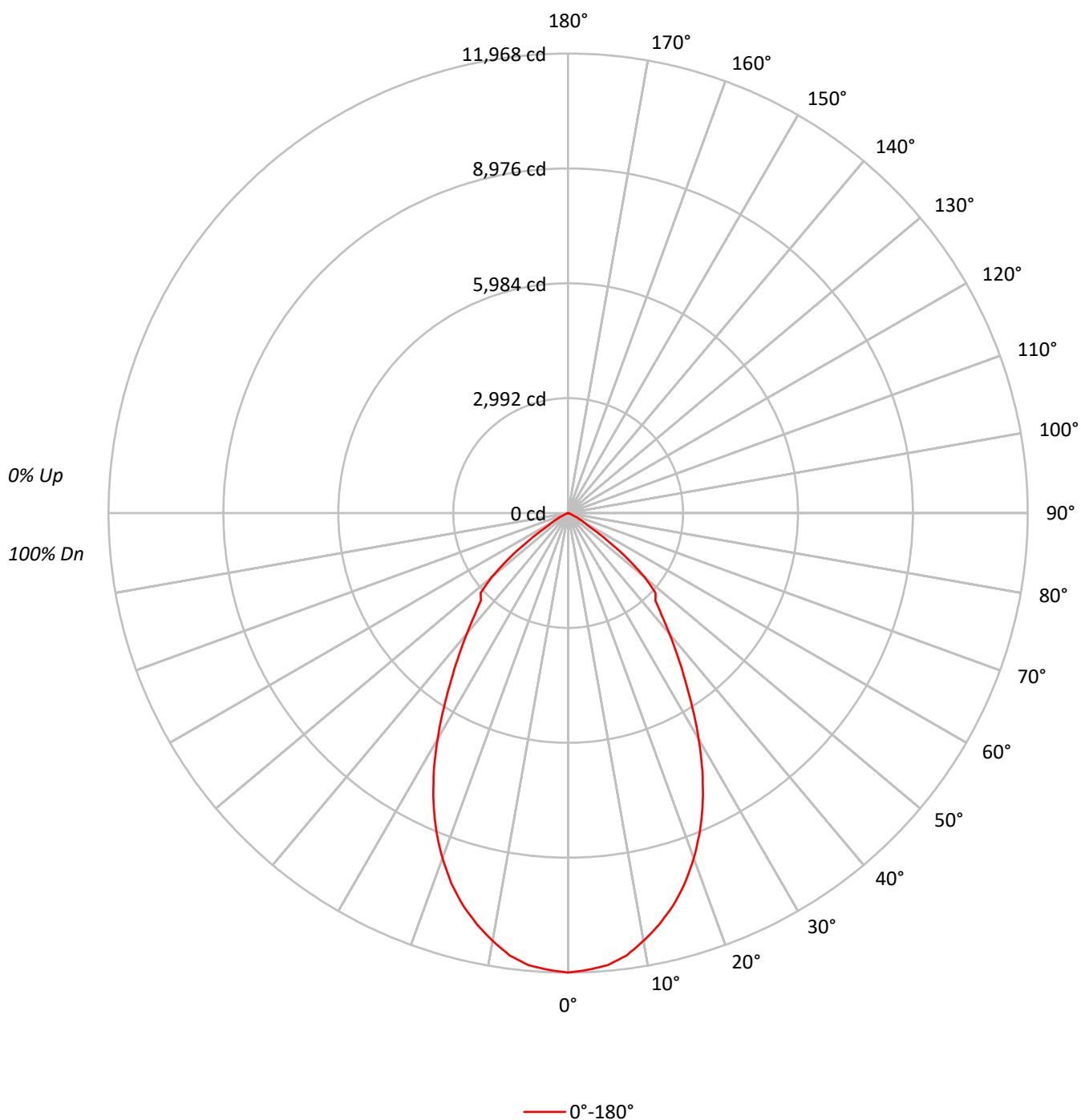
Lumens per Lamp: N/A  
Luminaire Lumens: 15119.4 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.98  
Luminous Opening: Circular (Dia: 1.23' x H: 0')  
CIE Type: Direct

Input Watts (W): 119.3  
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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |  |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |  |  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  | 83  |  |  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  | 75  |  |  |
| 4   | 93  | 84  | 77  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  | 68  |  |  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 73  | 68  | 64  | 71  | 67  | 63  | 62  |  |  |
| 6   | 82  | 71  | 64  | 59  | 80  | 70  | 64  | 59  | 69  | 63  | 59  | 67  | 62  | 58  | 66  | 61  | 58  | 56  |  |  |
| 7   | 77  | 66  | 59  | 54  | 75  | 65  | 59  | 54  | 64  | 58  | 54  | 63  | 57  | 53  | 61  | 57  | 53  | 51  |  |  |
| 8   | 72  | 61  | 54  | 50  | 71  | 61  | 54  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 57  | 53  | 49  | 47  |  |  |
| 9   | 68  | 57  | 50  | 46  | 67  | 57  | 50  | 46  | 56  | 50  | 46  | 55  | 49  | 45  | 54  | 49  | 45  | 44  |  |  |
| 10  | 65  | 54  | 47  | 42  | 63  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 51  | 46  | 42  | 41  |  |  |

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

|     | 0°     |
|-----|--------|
| 0°  | 109304 |
| 5°  | 108360 |
| 10° | 104922 |
| 15° | 100010 |
| 20° | 92967  |
| 25° | 83598  |
| 30° | 71655  |
| 35° | 59124  |
| 40° | 48893  |
| 45° | 41479  |
| 50° | 36838  |
| 55° | 19630  |
| 60° | 8092   |
| 65° | 3363   |
| 70° | 889    |
| 75° | 335    |
| 80° | 437    |
| 85° | 503    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $0^\circ$ 

Vertical Angle:  $47.5^\circ$

Luminance: 41776 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1112.2  | 7.4       |
| 10°-20°   | 2958.3  | 19.6      |
| 20°-30°   | 3782.8  | 25.0      |
| 30°-40°   | 3334.9  | 22.1      |
| 40°-50°   | 2550.3  | 16.9      |
| 50°-60°   | 1177.8  | 7.8       |
| 60°-70°   | 184.4   | 1.2       |
| 70°-80°   | 13.9    | 0.1       |
| 80°-90°   | 4.7     | 0.0       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-30°    | 7853.3  | 51.9      |
| 0°-40°    | 11188.2 | 74.0      |
| 0°-60°    | 14916.3 | 98.7      |
| 0°-90°    | 15119.4 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 15119.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 11968 |      |
| 5°  | 11820 | ###  |
| 15° | 10577 | 2958 |
| 25° | 8296  | 3783 |
| 35° | 5303  | 3335 |
| 45° | 3212  | 2550 |
| 55° | 1233  | 1178 |
| 65° | 156   | 184  |
| 75° | 10    | 14   |
| 85° | 5     | 5    |
| 90° | 0     |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 11968.2 |
| 2.5°  | 11908.8 |
| 5°    | 11819.7 |
| 7.5°  | 11623.7 |
| 10°   | 11313.8 |
| 12.5° | 10970.5 |
| 15°   | 10577.4 |
| 17.5° | 10110.7 |
| 20°   | 9565.5  |
| 22.5° | 8969.3  |
| 25°   | 8295.9  |
| 27.5° | 7570.2  |
| 30°   | 6794.7  |
| 32.5° | 6027.4  |
| 35°   | 5303.0  |
| 37.5° | 4667.6  |
| 40°   | 4101.0  |
| 42.5° | 3595.1  |
| 45°   | 3211.5  |
| 47.5° | 3090.3  |
| 50°   | 2592.7  |
| 52.5° | 1951.3  |
| 55°   | 1232.8  |
| 57.5° | 639.0   |
| 60°   | 443.0   |
| 62.5° | 282.7   |
| 65°   | 155.6   |
| 67.5° | 77.2    |
| 70°   | 33.3    |
| 72.5° | 13.1    |
| 75°   | 9.5     |
| 77.5° | 9.5     |
| 80°   | 8.3     |
| 82.5° | 5.9     |
| 85°   | 4.8     |
| 87.5° | 2.4     |
| 90°   | 0.0     |

(END OF REPORT)