

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: P1504382

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-U-A-04-WHGL-PS (5000K\_L18\_Narrow\_120V)

Issue Date: 7/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1504382  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2602-677-22)  
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-WHGL-PS (5000K\_L18\_Narrow\_120V)  
Description: PrentaLux UHBS2 4-INCH SELECTABLE HIGH BAY 1218 LIGHT ENGINE, DOMIC WHITE  
SHADE, NARROW DISTRIBUTION  
LIGHT LEVEL 1 - 18,000 LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

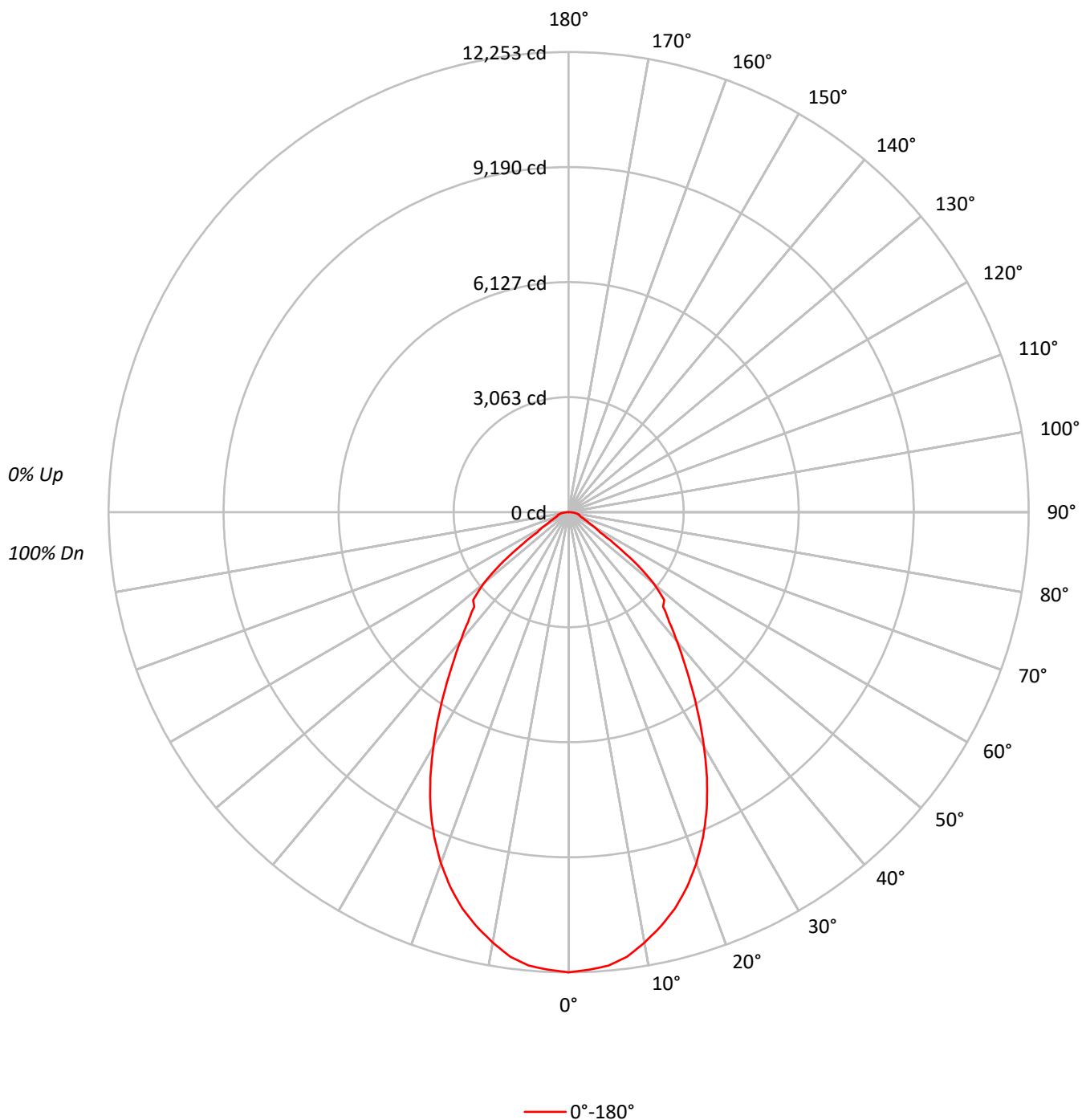
Lumens per Lamp: N/A  
Luminaire Lumens: 17021.1 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Spacing Criteria (0/90/45): 0.97 / 0.97 / 1  
Luminous Opening: Circular (Dia: 1.23' x H: 0')  
CIE Type: Direct

Input Watts (W): 120.1  
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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 95  | 93  | 92  | 90  |  |  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  | 80  |  |  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 75  | 80  | 76  | 73  | 72  |  |  |
| 4   | 91  | 81  | 74  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 66  | 64  |  |  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 58  |  |  |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 55  | 53  |  |  |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 54  | 50  | 59  | 54  | 50  | 48  |  |  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |  |  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 41  |  |  |
| 10  | 63  | 51  | 44  | 40  | 61  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 43  | 39  | 48  | 43  | 39  | 38  |  |  |

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

|     | 0°     |
|-----|--------|
| 0°  | 111907 |
| 5°  | 111105 |
| 10° | 107881 |
| 15° | 103321 |
| 20° | 96640  |
| 25° | 87710  |
| 30° | 76019  |
| 35° | 63721  |
| 40° | 53434  |
| 45° | 45979  |
| 50° | 41937  |
| 55° | 25072  |
| 60° | 14348  |
| 65° | 10403  |
| 70° | 9082   |
| 75° | 10268  |
| 80° | 12028  |
| 85° | 13172  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $0^\circ$ 

Vertical Angle:  $47.5^\circ$

Luminance: 46620 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1141.4  | 6.7       |
| 10°-20°   | 3057.6  | 18.0      |
| 20°-30°   | 3967.6  | 23.3      |
| 30°-40°   | 3589.1  | 21.1      |
| 40°-50°   | 2830.7  | 16.6      |
| 50°-60°   | 1491.6  | 8.8       |
| 60°-70°   | 506.8   | 3.0       |
| 70°-80°   | 304.1   | 1.8       |
| 80°-90°   | 132.1   | 0.8       |
| 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°    | 8166.6  | 48.0      |
| 0°-40°    | 11755.7 | 69.1      |
| 0°-60°    | 16078.1 | 94.5      |
| 0°-90°    | 17021.1 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 17021.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 12253 |      |
| 5°  | 12119 | ###  |
| 15° | 10928 | 3058 |
| 25° | 8704  | 3968 |
| 35° | 5715  | 3589 |
| 45° | 3560  | 2831 |
| 55° | 1575  | 1492 |
| 65° | 481   | 507  |
| 75° | 291   | 304  |
| 85° | 126   | 132  |
| 90° | 0     |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 12253.2 |
| 2.5°  | 12194.5 |
| 5°    | 12119.1 |
| 7.5°  | 11934.7 |
| 10°   | 11632.9 |
| 12.5° | 11304.8 |
| 15°   | 10927.6 |
| 17.5° | 10467.8 |
| 20°   | 9943.4  |
| 22.5° | 9355.4  |
| 25°   | 8704.0  |
| 27.5° | 7973.6  |
| 30°   | 7208.5  |
| 32.5° | 6449.3  |
| 35°   | 5715.3  |
| 37.5° | 5057.9  |
| 40°   | 4481.9  |
| 42.5° | 3968.2  |
| 45°   | 3559.9  |
| 47.5° | 3448.6  |
| 50°   | 2951.6  |
| 52.5° | 2309.8  |
| 55°   | 1574.6  |
| 57.5° | 987.9   |
| 60°   | 785.5   |
| 62.5° | 616.7   |
| 65°   | 481.4   |
| 67.5° | 392.8   |
| 70°   | 340.1   |
| 72.5° | 310.1   |
| 75°   | 291.0   |
| 77.5° | 265.8   |
| 80°   | 228.7   |
| 82.5° | 182.0   |
| 85°   | 125.7   |
| 87.5° | 63.5    |
| 90°   | 0.0     |

(END OF REPORT)