

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: P1504217

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-U-A-04-BLAK-PS (3000K\_L16\_Narrow\_120V)

Issue Date: 7/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1504217  
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 (3000K\_L16\_Narrow\_120V)  
Description: PrentaLux UHBS2 4-INCH SELECTABLE HIGH BAY 1218 LIGHT ENGINE, DOMIC BLACK SHADE, NARROW DISTRIBUTION  
LIGHT LEVEL 2 - 16,000 LUMENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

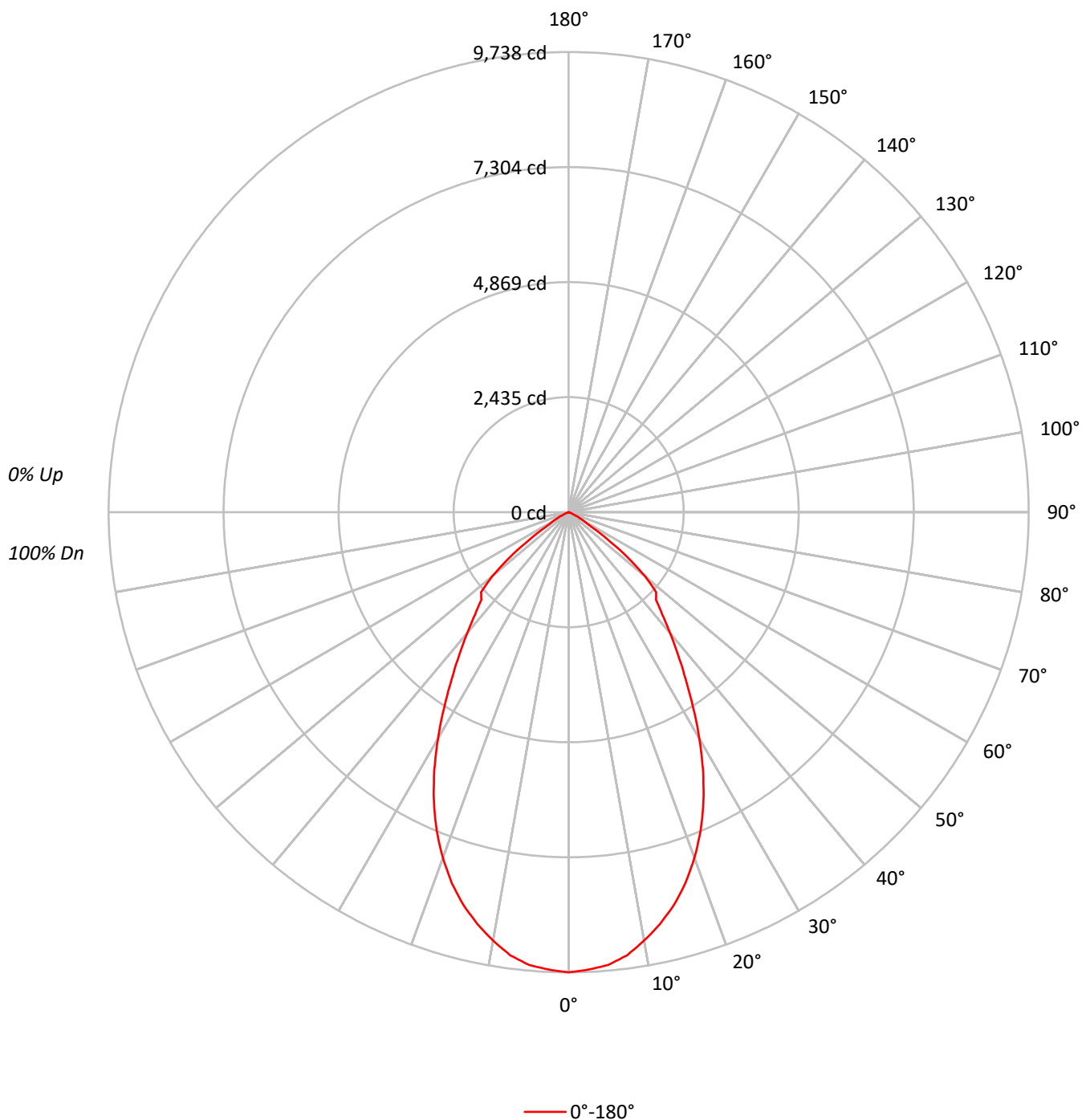
Lumens per Lamp: N/A  
Luminaire Lumens: 12301.9 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.98  
Luminous Opening: Circular (Dia: 1.23' x H: 0')  
CIE Type: Direct

Input Watts (W): 102.3  
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

TEST NUMBER: P1504217

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-U-A-04-BLAK-PS (3000K\_L16\_Narrow\_120V)

### Luminous Intensity Polar Plot





TEST NUMBER: P1504217

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-U-A-04-BLAK-PS (3000K\_L16\_Narrow\_120V)

### 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°  | 88936 |
| 5°  | 88168 |
| 10° | 85370 |
| 15° | 81374 |
| 20° | 75643 |
| 25° | 68020 |
| 30° | 58302 |
| 35° | 48107 |
| 40° | 39782 |
| 45° | 33749 |
| 50° | 29974 |
| 55° | 15972 |
| 60° | 6585  |
| 65° | 2736  |
| 70° | 724   |
| 75° | 272   |
| 80° | 358   |
| 85° | 409   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $0^\circ$ 

Vertical Angle:  $47.5^\circ$

Luminance: 33992 cd/sqm

TEST NUMBER: P1504217

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-U-A-04-BLAK-PS (3000K\_L16\_Narrow\_120V)

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 905.0   | 7.4       |
| 10°-20°   | 2407.0  | 19.6      |
| 20°-30°   | 3077.9  | 25.0      |
| 30°-40°   | 2713.5  | 22.1      |
| 40°-50°   | 2075.1  | 16.9      |
| 50°-60°   | 958.3   | 7.8       |
| 60°-70°   | 150.0   | 1.2       |
| 70°-80°   | 11.3    | 0.1       |
| 80°-90°   | 3.8     | 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°    | 6389.9  | 51.9      |
| 0°-40°    | 9103.4  | 74.0      |
| 0°-60°    | 12136.8 | 98.7      |
| 0°-90°    | 12301.9 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 12301.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 9738 |      |
| 5°  | 9617 | 905  |
| 15° | 8606 | 2407 |
| 25° | 6750 | 3078 |
| 35° | 4315 | 2713 |
| 45° | 2613 | 2075 |
| 55° | 1003 | 958  |
| 65° | 127  | 150  |
| 75° | 8    | 11   |
| 85° | 4    | 4    |
| 90° | 0    |      |

TEST NUMBER: P1504217

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-U-A-04-BLAK-PS (3000K\_L16\_Narrow\_120V)

**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 9738.0 |
| 2.5°  | 9689.7 |
| 5°    | 9617.2 |
| 7.5°  | 9457.7 |
| 10°   | 9205.5 |
| 12.5° | 8926.2 |
| 15°   | 8606.4 |
| 17.5° | 8226.6 |
| 20°   | 7783.0 |
| 22.5° | 7297.9 |
| 25°   | 6750.0 |
| 27.5° | 6159.6 |
| 30°   | 5528.5 |
| 32.5° | 4904.3 |
| 35°   | 4314.8 |
| 37.5° | 3797.8 |
| 40°   | 3336.8 |
| 42.5° | 2925.2 |
| 45°   | 2613.0 |
| 47.5° | 2514.5 |
| 50°   | 2109.6 |
| 52.5° | 1587.7 |
| 55°   | 1003.1 |
| 57.5° | 519.9  |
| 60°   | 360.5  |
| 62.5° | 230.0  |
| 65°   | 126.6  |
| 67.5° | 62.8   |
| 70°   | 27.1   |
| 72.5° | 10.6   |
| 75°   | 7.7    |
| 77.5° | 7.7    |
| 80°   | 6.8    |
| 82.5° | 4.8    |
| 85°   | 3.9    |
| 87.5° | 1.9    |
| 90°   | 0.0    |

(END OF REPORT)