

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: P1504337

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

Issue Date: 7/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1504337  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2602-677-25)  
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-TRWH-PS (5000K\_L18\_Narrow\_120V)  
Description: PrentaLux UHBS2 4-INCH SELECTABLE HIGH BAY 1218 LIGHT ENGINE, DOMIC  
TRANSLUCENT WHITE SHADE, NARROW DISTRIBUTION  
LIGHT LEVEL 1 - 18,000 LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

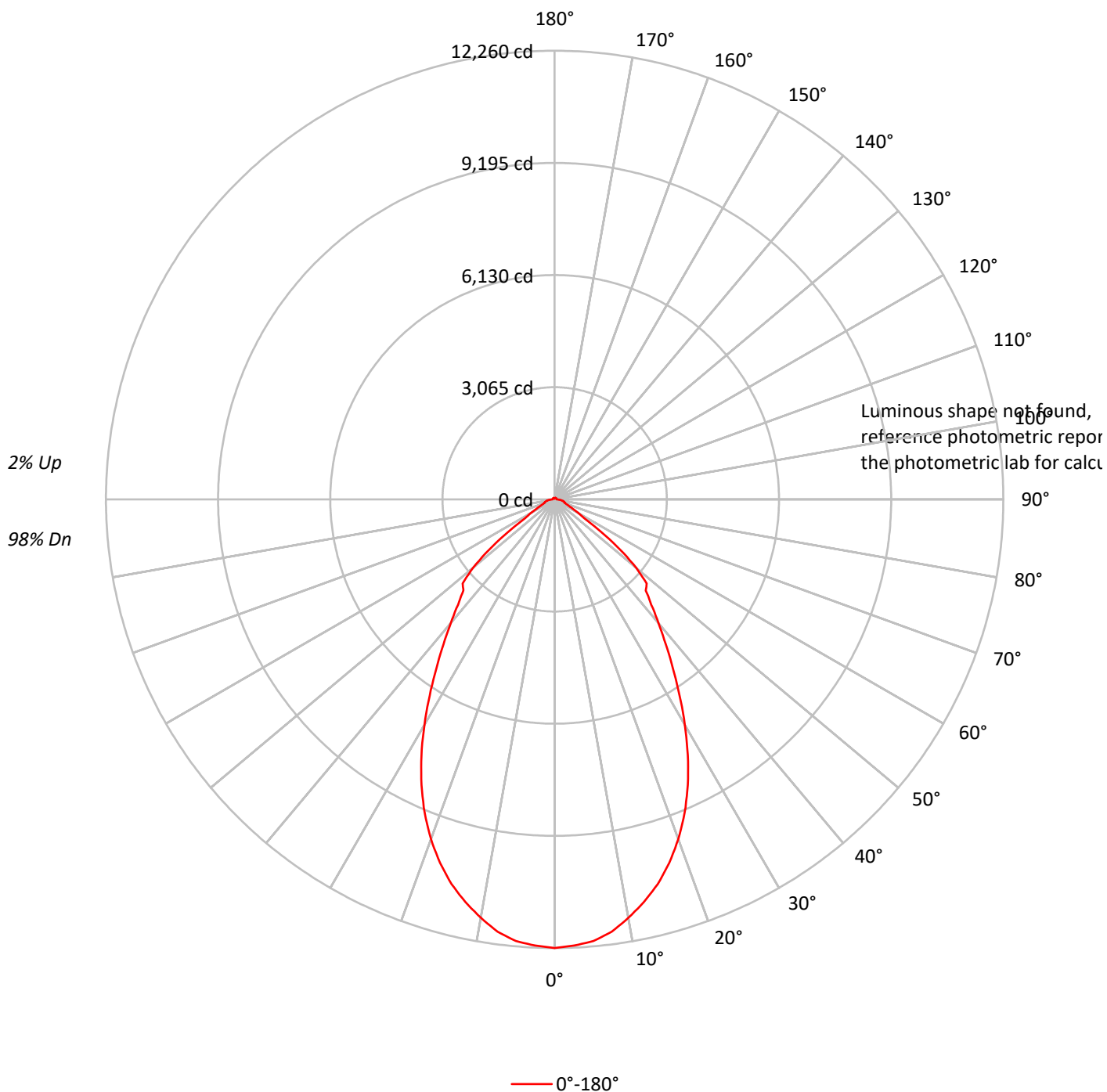
Lumens per Lamp: N/A  
Luminaire Lumens: 17109.2 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.99  
Luminous Opening: Ellipsoidal Spheroid (W: 1.23' x L: 1.23' x H: 0.58')  
CIE Type: Direct

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

TEST NUMBER: P1504337

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-U-A-04-TRWH-PS (5000K\_L18\_Narrow\_120V)

### Luminous Intensity Polar Plot



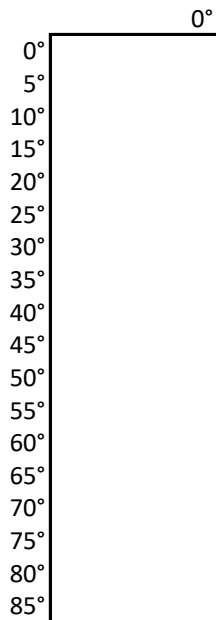
TEST NUMBER: P1504337

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-U-A-04-TRWH-PS (5000K\_L18\_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 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |  |  |
| 1   | 111 | 108 | 104 | 102 | 108 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88 |  |  |
| 2   | 104 | 98  | 93  | 88  | 101 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 83  | 81  | 79 |  |  |
| 3   | 97  | 89  | 83  | 78  | 95  | 87  | 81  | 77  | 84  | 79  | 75  | 81  | 77  | 74  | 79  | 75  | 72  | 71 |  |  |
| 4   | 91  | 81  | 74  | 69  | 88  | 80  | 73  | 68  | 77  | 72  | 67  | 75  | 70  | 66  | 73  | 69  | 65  | 63 |  |  |
| 5   | 85  | 74  | 67  | 62  | 83  | 73  | 66  | 61  | 71  | 65  | 61  | 69  | 64  | 60  | 67  | 63  | 59  | 57 |  |  |
| 6   | 79  | 68  | 61  | 56  | 78  | 67  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 62  | 58  | 54  | 52 |  |  |
| 7   | 74  | 63  | 56  | 51  | 73  | 62  | 55  | 51  | 61  | 55  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48 |  |  |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 44 |  |  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40 |  |  |
| 10  | 62  | 51  | 44  | 40  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 37 |  |  |

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



**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: -  
Vertical Angle: -  
Luminance: -

TEST NUMBER: P1504337

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-U-A-04-TRWH-PS (5000K\_L18\_Narrow\_120V)

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1140.4  | 6.7       |
| 10°-20°   | 3044.5  | 17.8      |
| 20°-30°   | 3927.5  | 23.0      |
| 30°-40°   | 3536.5  | 20.7      |
| 40°-50°   | 2794.3  | 16.3      |
| 50°-60°   | 1456.9  | 8.5       |
| 60°-70°   | 469.9   | 2.7       |
| 70°-80°   | 279.7   | 1.6       |
| 80°-90°   | 153.8   | 0.9       |
| 90°-100°  | 57.2    | 0.3       |
| 100°-110° | 56.1    | 0.3       |
| 110°-120° | 51.9    | 0.3       |
| 120°-130° | 44.9    | 0.3       |
| 130°-140° | 36.7    | 0.2       |
| 140°-150° | 28.9    | 0.2       |
| 150°-160° | 19.0    | 0.1       |
| 160°-170° | 9.0     | 0.1       |
| 170°-180° | 2.3     | 0.0       |
| 0°-30°    | 8112.4  | 47.4      |
| 0°-40°    | 11648.9 | 68.1      |
| 0°-60°    | 15900.1 | 92.9      |
| 0°-90°    | 16803.5 | 98.2      |
| 90°-120°  | 165.1   | 1.0       |
| 90°-150°  | 275.5   | 1.6       |
| 90°-180°  | 306.0   | 1.8       |
| 0°-180°   | 17109.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 12260 |      |
| 5°   | 12116 | ###  |
| 15°  | 10882 | 3045 |
| 25°  | 8608  | 3928 |
| 35°  | 5628  | 3537 |
| 45°  | 3524  | 2794 |
| 55°  | 1545  | 1457 |
| 65°  | 443   | 470  |
| 75°  | 266   | 280  |
| 85°  | 144   | 133  |
| 90°  | 53    | 35   |
| 95°  | 53    | 43   |
| 105° | 54    | 56   |
| 115° | 53    | 52   |
| 125° | 50    | 45   |
| 135° | 47    | 37   |
| 145° | 46    | 29   |
| 155° | 41    | 19   |
| 165° | 31    | 9    |
| 175° | 23    | 2    |
| 180° | 22    |      |

TEST NUMBER: P1504337

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-U-A-04-TRWH-PS (5000K\_L18\_Narrow\_120V)

**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 12260.4 |
| 2.5°   | 12201.7 |
| 5°     | 12115.5 |
| 7.5°   | 11919.1 |
| 10°    | 11609.0 |
| 12.5°  | 11267.7 |
| 15°    | 10882.1 |
| 17.5°  | 10417.5 |
| 20°    | 9878.7  |
| 22.5°  | 9280.0  |
| 25°    | 8608.2  |
| 27.5°  | 7881.4  |
| 30°    | 7113.9  |
| 32.5°  | 6353.5  |
| 35°    | 5627.9  |
| 37.5°  | 4983.7  |
| 40°    | 4416.1  |
| 42.5°  | 3909.6  |
| 45°    | 3524.0  |
| 47.5°  | 3409.1  |
| 50°    | 2906.1  |
| 52.5°  | 2267.9  |
| 55°    | 1544.7  |
| 57.5°  | 947.2   |
| 60°    | 746.0   |
| 62.5°  | 578.4   |
| 65°    | 443.0   |
| 67.5°  | 356.8   |
| 70°    | 307.7   |
| 72.5°  | 280.2   |
| 75°    | 265.8   |
| 77.5°  | 247.9   |
| 80°    | 221.5   |
| 82.5°  | 186.8   |
| 85°    | 143.7   |
| 87.5°  | 97.0    |
| 90°    | 52.7    |
| 92.5°  | 51.5    |
| 95°    | 52.7    |
| 97.5°  | 52.7    |
| 100°   | 52.7    |
| 102.5° | 52.7    |
| 105°   | 53.9    |
| 107.5° | 52.7    |
| 110°   | 52.7    |

TEST NUMBER: P1504337

CATALOG NUMBER: PRLX-UHBS2-1218-MV-L8C5-U-A-04-TRWH-PS (5000K\_L18\_Narrow\_120V)

**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 52.7 |
| 115°   | 52.7 |
| 117.5° | 51.5 |
| 120°   | 51.5 |
| 122.5° | 50.3 |
| 125°   | 50.3 |
| 127.5° | 49.1 |
| 130°   | 49.1 |
| 132.5° | 47.9 |
| 135°   | 46.7 |
| 137.5° | 46.7 |
| 140°   | 46.7 |
| 142.5° | 46.7 |
| 145°   | 45.5 |
| 147.5° | 45.5 |
| 150°   | 45.5 |
| 152.5° | 44.3 |
| 155°   | 40.7 |
| 157.5° | 37.1 |
| 160°   | 35.9 |
| 162.5° | 33.5 |
| 165°   | 31.1 |
| 167.5° | 28.7 |
| 170°   | 26.3 |
| 172.5° | 23.9 |
| 175°   | 22.8 |
| 177.5° | 21.6 |
| 180°   | 21.6 |

(END OF REPORT)