

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: P1221343

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (6500K\_L18\_Medium\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221343  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-42)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS2-1218-MV-L8C5-WHTE-08 (6500K\_L18\_Medium\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, WHITE SHADE, MEDIUM DISTRIBUTION.  
LIGHT LEVEL 1 - 18,000 LUMENS  
Light Source: 6500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

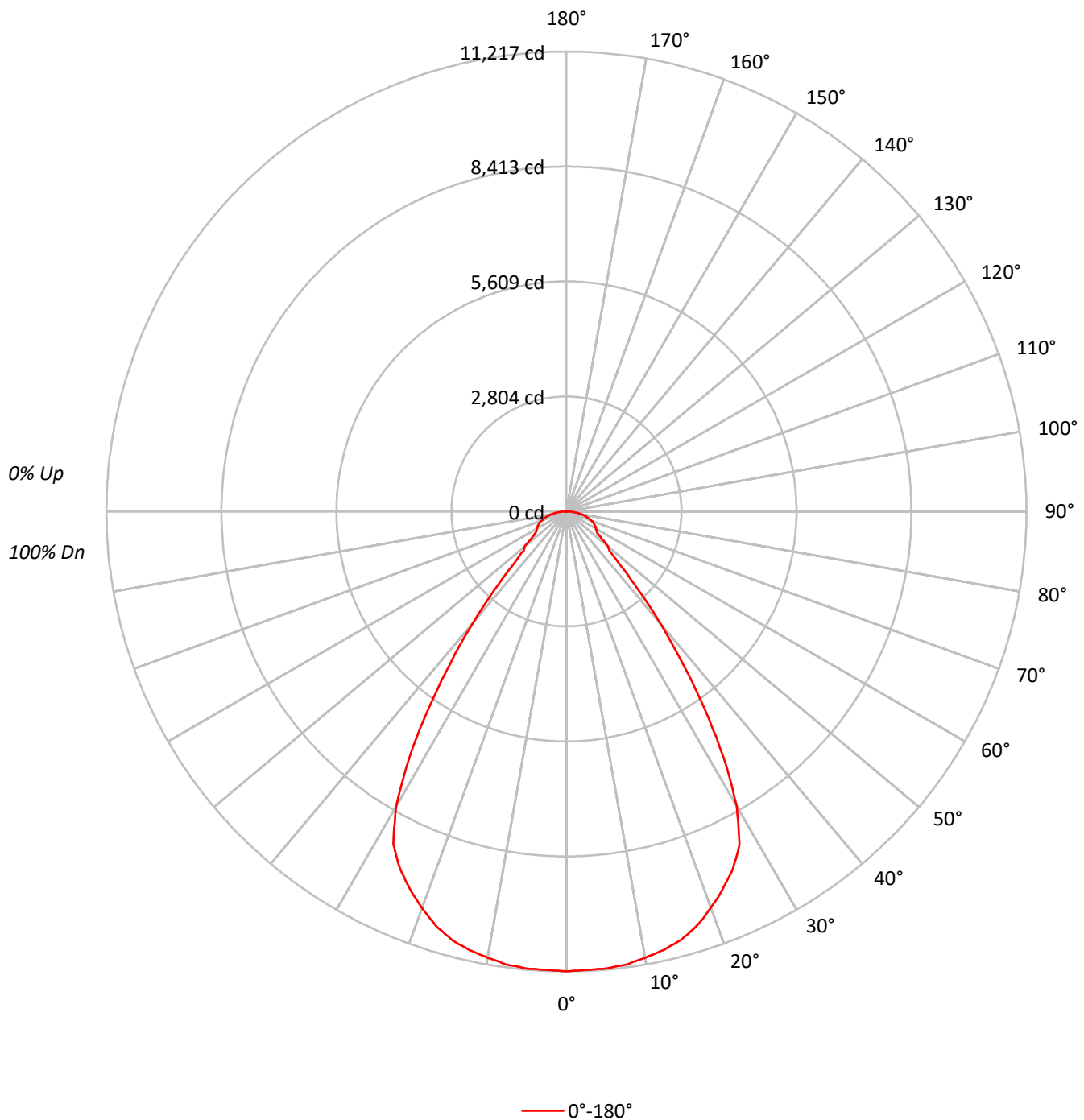
Lumens per Lamp: N/A  
Luminaire Lumens: 16056.3 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.03  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')  
CIE Type: Direct

Input Watts (W): 122.6  
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  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 111 | 108 | 104 | 102 |  | 109 | 105 | 103 | 100 |  | 101 | 99  | 97  |  | 97  | 96  | 94  |  | 94  | 92  | 91  |
| 2   | 104 | 98  | 93  | 88  |  | 102 | 96  | 91  | 87  |  | 93  | 89  | 85  |  | 89  | 86  | 83  |  | 87  | 84  | 81  |
| 3   | 97  | 89  | 83  | 78  |  | 95  | 88  | 82  | 77  |  | 85  | 80  | 76  |  | 82  | 78  | 75  |  | 80  | 76  | 73  |
| 4   | 91  | 82  | 75  | 70  |  | 89  | 81  | 74  | 69  |  | 78  | 73  | 68  |  | 76  | 71  | 67  |  | 74  | 70  | 67  |
| 5   | 86  | 75  | 68  | 63  |  | 84  | 74  | 68  | 63  |  | 72  | 66  | 62  |  | 71  | 65  | 61  |  | 69  | 64  | 61  |
| 6   | 80  | 70  | 62  | 57  |  | 79  | 69  | 62  | 57  |  | 67  | 61  | 57  |  | 66  | 60  | 56  |  | 64  | 59  | 56  |
| 7   | 76  | 65  | 57  | 52  |  | 74  | 64  | 57  | 52  |  | 62  | 56  | 52  |  | 61  | 56  | 52  |  | 60  | 55  | 51  |
| 8   | 71  | 60  | 53  | 48  |  | 70  | 60  | 53  | 48  |  | 58  | 52  | 48  |  | 57  | 52  | 48  |  | 56  | 51  | 47  |
| 9   | 67  | 56  | 49  | 45  |  | 66  | 56  | 49  | 45  |  | 55  | 49  | 44  |  | 54  | 48  | 44  |  | 53  | 48  | 44  |
| 10  | 64  | 53  | 46  | 41  |  | 63  | 52  | 46  | 41  |  | 51  | 45  | 41  |  | 50  | 45  | 41  |  | 50  | 45  | 41  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 61321 |
| 5°  | 58648 |
| 10° | 56046 |
| 15° | 53518 |
| 20° | 50112 |
| 25° | 46366 |
| 30° | 40016 |
| 35° | 28395 |
| 40° | 17467 |
| 45° | 9262  |
| 50° | 6870  |
| 55° | 4967  |
| 60° | 4712  |
| 65° | 4529  |
| 70° | 4152  |
| 75° | 3568  |
| 80° | 2683  |
| 85° | 1452  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 9262 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1063.7  | 6.6       |
| 10°-20°   | 3038.7  | 18.9      |
| 20°-30°   | 4373.6  | 27.2      |
| 30°-40°   | 3637.6  | 22.7      |
| 40°-50°   | 1582.0  | 9.9       |
| 50°-60°   | 878.6   | 5.5       |
| 60°-70°   | 740.2   | 4.6       |
| 70°-80°   | 529.7   | 3.3       |
| 80°-90°   | 183.0   | 1.1       |
| 90°-100°  | 2.6     | 0.0       |
| 100°-110° | 1.3     | 0.0       |
| 110°-120° | 2.2     | 0.0       |
| 120°-130° | 2.5     | 0.0       |
| 130°-140° | 4.0     | 0.0       |
| 140°-150° | 6.2     | 0.0       |
| 150°-160° | 5.7     | 0.0       |
| 160°-170° | 3.4     | 0.0       |
| 170°-180° | 1.3     | 0.0       |
| <hr/>     |         |           |
| 0°-30°    | 8476.0  | 52.8      |
| 0°-40°    | 12113.6 | 75.4      |
| 0°-60°    | 14574.3 | 90.8      |
| 0°-90°    | 16027.1 | 99.8      |
| 90°-120°  | 6.1     | 0.0       |
| 90°-150°  | 18.8    | 0.1       |
| 90°-180°  | 29.0    | 0.2       |
| 0°-180°   | 16056.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 11217 |      |
| 5°   | 11188 | ###  |
| 15°  | 10814 | 3039 |
| 25°  | 9608  | 4374 |
| 35°  | 5852  | 3638 |
| 45°  | 1840  | 1582 |
| 55°  | 920   | 879  |
| 65°  | 753   | 740  |
| 75°  | 507   | 530  |
| 85°  | 165   | 171  |
| 90°  | 11    | 13   |
| 95°  | 1     | 1    |
| 105° | 1     | 1    |
| 115° | 2     | 2    |
| 125° | 2     | 3    |
| 135° | 5     | 4    |
| 145° | 10    | 6    |
| 155° | 12    | 6    |
| 165° | 12    | 3    |
| 175° | 13    | 1    |
| 180° | 13    |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°      |
|--------|---------|
| 0°     | 11216.9 |
| 2.5°   | 11193.1 |
| 5°     | 11188.4 |
| 7.5°   | 11144.5 |
| 10°    | 11050.7 |
| 12.5°  | 10953.3 |
| 15°    | 10814.4 |
| 17.5°  | 10590.0 |
| 20°    | 10294.4 |
| 22.5°  | 9966.7  |
| 25°    | 9608.2  |
| 27.5°  | 9140.4  |
| 30°    | 8301.1  |
| 32.5°  | 7145.9  |
| 35°    | 5851.8  |
| 37.5°  | 4619.5  |
| 40°    | 3548.6  |
| 42.5°  | 2602.4  |
| 45°    | 1840.2  |
| 47.5°  | 1417.5  |
| 50°    | 1323.8  |
| 52.5°  | 1070.9  |
| 55°    | 920.1   |
| 57.5°  | 866.7   |
| 60°    | 831.1   |
| 62.5°  | 796.6   |
| 65°    | 752.7   |
| 67.5°  | 701.6   |
| 70°    | 642.3   |
| 72.5°  | 578.2   |
| 75°    | 506.9   |
| 77.5°  | 428.6   |
| 80°    | 344.3   |
| 82.5°  | 256.4   |
| 85°    | 165.0   |
| 87.5°  | 73.6    |
| 90°    | 10.7    |
| 92.5°  | 1.2     |
| 95°    | 1.2     |
| 97.5°  | 1.2     |
| 100°   | 1.2     |
| 102.5° | 1.2     |
| 105°   | 1.2     |
| 107.5° | 1.2     |
| 110°   | 1.2     |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 2.4  |
| 115°   | 2.4  |
| 117.5° | 2.4  |
| 120°   | 2.4  |
| 122.5° | 2.4  |
| 125°   | 2.4  |
| 127.5° | 3.6  |
| 130°   | 3.6  |
| 132.5° | 4.7  |
| 135°   | 4.7  |
| 137.5° | 5.9  |
| 140°   | 7.1  |
| 142.5° | 8.3  |
| 145°   | 9.5  |
| 147.5° | 11.9 |
| 150°   | 13.1 |
| 152.5° | 13.1 |
| 155°   | 11.9 |
| 157.5° | 11.9 |
| 160°   | 11.9 |
| 162.5° | 11.9 |
| 165°   | 11.9 |
| 167.5° | 11.9 |
| 170°   | 13.1 |
| 172.5° | 13.1 |
| 175°   | 13.1 |
| 177.5° | 13.1 |
| 180°   | 13.1 |

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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 | 13.84            | 15.07 | 14.20 | 15.39 | 15.71 | 13.84          | 15.07 | 14.20 | 15.39 | 15.71 |
|                 | 3H   | 15.96            | 17.06 | 16.34 | 17.40 | 17.77 | 15.96          | 17.06 | 16.34 | 17.40 | 17.77 |
|                 | 4H   | 16.75            | 17.78 | 17.15 | 18.13 | 18.52 | 16.75          | 17.78 | 17.15 | 18.13 | 18.52 |
|                 | 6H   | 17.29            | 18.24 | 17.71 | 18.62 | 19.02 | 17.29          | 18.24 | 17.71 | 18.62 | 19.02 |
|                 | 8H   | 17.45            | 18.35 | 17.88 | 18.74 | 19.15 | 17.45          | 18.35 | 17.88 | 18.74 | 19.15 |
|                 | 12H  | 17.52            | 18.38 | 17.95 | 18.76 | 19.20 | 17.52          | 18.38 | 17.95 | 18.76 | 19.20 |
| 4H              | 2H   | 14.45            | 15.48 | 14.86 | 15.84 | 16.23 | 14.45          | 15.48 | 14.86 | 15.84 | 16.23 |
|                 | 3H   | 16.74            | 17.59 | 17.15 | 18.00 | 18.41 | 16.74          | 17.59 | 17.15 | 18.00 | 18.41 |
|                 | 4H   | 17.63            | 18.40 | 18.07 | 18.82 | 19.27 | 17.63          | 18.40 | 18.07 | 18.82 | 19.27 |
|                 | 6H   | 18.29            | 18.95 | 18.75 | 19.40 | 19.87 | 18.29          | 18.95 | 18.75 | 19.40 | 19.87 |
|                 | 8H   | 18.47            | 19.09 | 18.94 | 19.54 | 20.02 | 18.47          | 19.09 | 18.94 | 19.54 | 20.02 |
|                 | 12H  | 18.57            | 19.12 | 19.06 | 19.61 | 20.09 | 18.57          | 19.12 | 19.06 | 19.61 | 20.09 |
| 8H              | 4H   | 17.89            | 18.51 | 18.36 | 18.96 | 19.43 | 17.89          | 18.51 | 18.36 | 18.96 | 19.43 |
|                 | 6H   | 18.64            | 19.15 | 19.15 | 19.65 | 20.14 | 18.64          | 19.15 | 19.15 | 19.65 | 20.14 |
|                 | 8H   | 18.89            | 19.34 | 19.42 | 19.86 | 20.36 | 18.89          | 19.34 | 19.42 | 19.86 | 20.36 |
|                 | 12H  | 19.05            | 19.45 | 19.57 | 19.95 | 20.52 | 19.05          | 19.45 | 19.57 | 19.95 | 20.52 |
| 12H             | 4H   | 17.89            | 18.44 | 18.38 | 18.93 | 19.41 | 17.89          | 18.44 | 18.38 | 18.93 | 19.41 |
|                 | 6H   | 18.67            | 19.12 | 19.20 | 19.64 | 20.14 | 18.67          | 19.12 | 19.20 | 19.64 | 20.14 |
|                 | 8H   | 18.96            | 19.36 | 19.48 | 19.86 | 20.44 | 18.96          | 19.36 | 19.48 | 19.86 | 20.44 |