

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P1221240

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (5000K\_L12\_Wide\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221240  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS2-1218-MV-L8C5-CLER-08 (5000K\_L12\_Wide\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 1218 LIGHT ENGINE, CLEAR SHADE, WIDE DISTRIBUTION.  
LIGHT LEVEL 1 - 12,000 LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

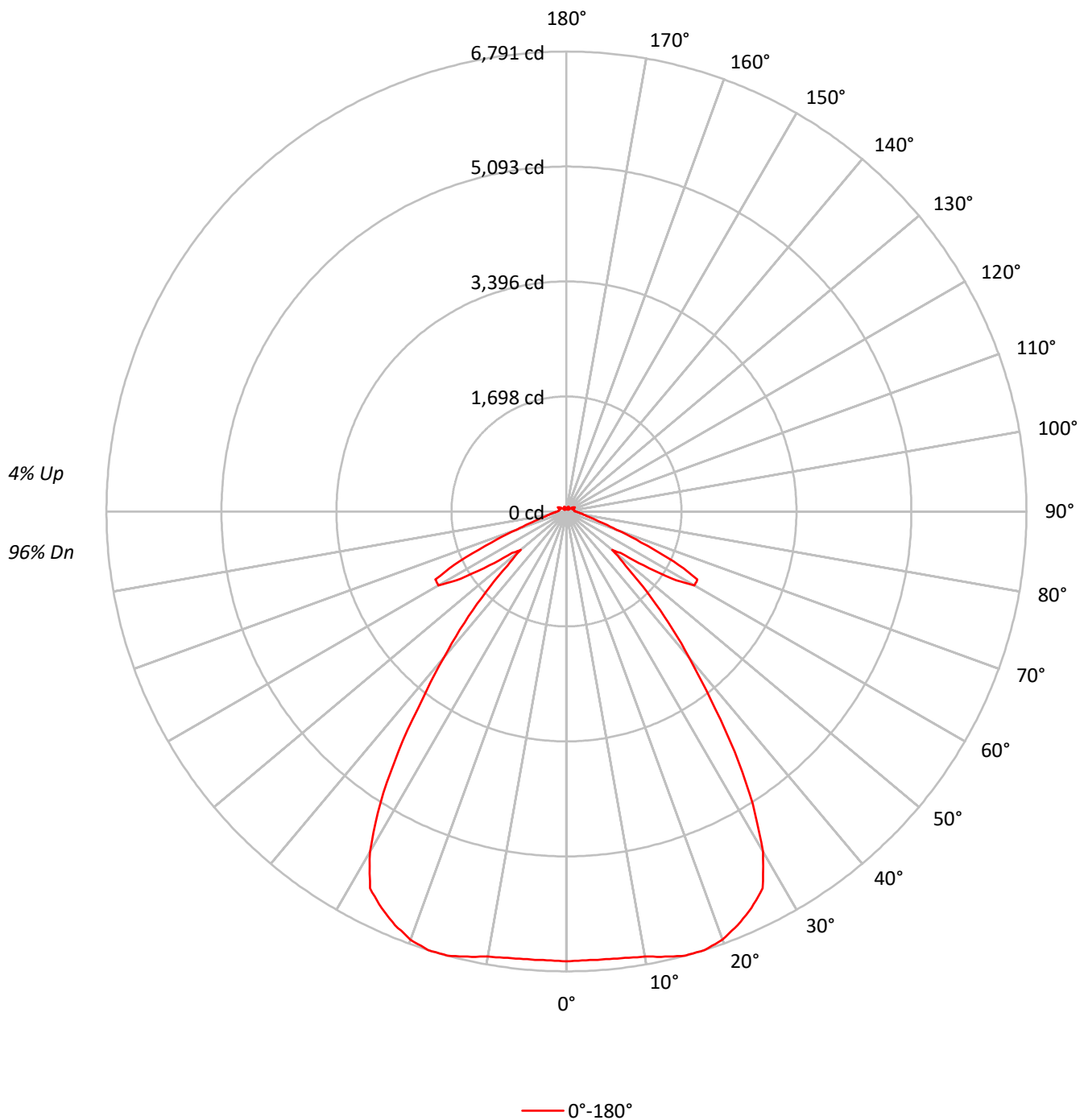
Lumens per Lamp: N/A  
Luminaire Lumens: 13649.4 lumens  
Efficiency: N/A  
Efficacy: 169.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.1  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.67')  
CIE Type: Direct

Input Watts (W): 80.4  
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  |  | 0  |    |    |    |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |    |    |    |    |
| 0   | 118 | 118 | 118 | 118 |  | 115 | 115 | 115 | 115 |  | 109 | 109 | 109 |  | 103 | 103 | 103 |  | 98 | 98 | 98 | 96 |
| 1   | 109 | 105 | 101 | 98  |  | 106 | 102 | 99  | 96  |  | 97  | 95  | 92  |  | 93  | 91  | 89  |  | 89 | 87 | 85 | 83 |
| 2   | 101 | 93  | 87  | 82  |  | 98  | 91  | 86  | 81  |  | 87  | 82  | 79  |  | 83  | 79  | 76  |  | 80 | 77 | 74 | 72 |
| 3   | 93  | 83  | 76  | 71  |  | 90  | 82  | 75  | 70  |  | 78  | 73  | 68  |  | 75  | 70  | 66  |  | 72 | 68 | 65 | 63 |
| 4   | 86  | 75  | 67  | 61  |  | 83  | 74  | 66  | 61  |  | 71  | 65  | 60  |  | 68  | 63  | 58  |  | 66 | 61 | 57 | 55 |
| 5   | 80  | 68  | 60  | 54  |  | 78  | 67  | 59  | 54  |  | 65  | 58  | 53  |  | 62  | 57  | 52  |  | 60 | 55 | 51 | 49 |
| 6   | 74  | 62  | 54  | 49  |  | 72  | 61  | 54  | 48  |  | 59  | 53  | 48  |  | 57  | 51  | 47  |  | 55 | 50 | 46 | 44 |
| 7   | 70  | 57  | 49  | 44  |  | 68  | 56  | 49  | 44  |  | 55  | 48  | 43  |  | 53  | 47  | 42  |  | 51 | 46 | 42 | 40 |
| 8   | 65  | 53  | 45  | 40  |  | 64  | 52  | 45  | 40  |  | 51  | 44  | 39  |  | 49  | 43  | 39  |  | 48 | 42 | 38 | 37 |
| 9   | 61  | 49  | 42  | 37  |  | 60  | 48  | 41  | 36  |  | 47  | 41  | 36  |  | 46  | 40  | 36  |  | 44 | 39 | 35 | 34 |
| 10  | 58  | 46  | 39  | 34  |  | 57  | 45  | 38  | 34  |  | 44  | 38  | 33  |  | 43  | 37  | 33  |  | 42 | 36 | 33 | 31 |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 36315 |
| 5°  | 34793 |
| 10° | 33846 |
| 15° | 33600 |
| 20° | 32747 |
| 25° | 31186 |
| 30° | 27976 |
| 35° | 21008 |
| 40° | 13878 |
| 45° | 8450  |
| 50° | 4571  |
| 55° | 7497  |
| 60° | 12369 |
| 65° | 10514 |
| 70° | 5043  |
| 75° | 2722  |
| 80° | 1943  |
| 85° | 1585  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 62.5°  
Luminance: 12720 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 634.7   | 4.7       |
| 10°-20°   | 1915.6  | 14.0      |
| 20°-30°   | 2952.6  | 21.6      |
| 30°-40°   | 2669.5  | 19.6      |
| 40°-50°   | 1323.2  | 9.7       |
| 50°-60°   | 1307.4  | 9.6       |
| 60°-70°   | 1628.4  | 11.9      |
| 70°-80°   | 456.8   | 3.3       |
| 80°-90°   | 200.9   | 1.5       |
| 90°-100°  | 128.3   | 0.9       |
| 100°-110° | 113.5   | 0.8       |
| 110°-120° | 124.2   | 0.9       |
| 120°-130° | 77.6    | 0.6       |
| 130°-140° | 30.7    | 0.2       |
| 140°-150° | 32.8    | 0.2       |
| 150°-160° | 33.0    | 0.2       |
| 160°-170° | 16.6    | 0.1       |
| 170°-180° | 3.5     | 0.0       |
| 0°-30°    | 5503.0  | 40.3      |
| 0°-40°    | 8172.5  | 59.9      |
| 0°-60°    | 10803.1 | 79.1      |
| 0°-90°    | 13089.2 | 95.9      |
| 90°-120°  | 366.0   | 2.7       |
| 90°-150°  | 507.1   | 3.7       |
| 90°-180°  | 560.0   | 4.1       |
| 0°-180°   | 13649.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 6643 |      |
| 5°   | 6638 | 635  |
| 15°  | 6790 | 1916 |
| 25°  | 6463 | 2953 |
| 35°  | 4330 | 2670 |
| 45°  | 1679 | 1323 |
| 55°  | 1389 | 1307 |
| 65°  | 1747 | 1628 |
| 75°  | 387  | 457  |
| 85°  | 180  | 162  |
| 90°  | 132  | 74   |
| 95°  | 114  | 94   |
| 105° | 112  | 114  |
| 115° | 139  | 124  |
| 125° | 84   | 78   |
| 135° | 37   | 31   |
| 145° | 53   | 33   |
| 155° | 73   | 33   |
| 165° | 58   | 17   |
| 175° | 34   | 4    |
| 180° | 32   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 6642.7 |
| 2.5°   | 6632.5 |
| 5°     | 6637.6 |
| 7.5°   | 6649.5 |
| 10°    | 6673.4 |
| 12.5°  | 6734.1 |
| 15°    | 6789.5 |
| 17.5°  | 6791.2 |
| 20°    | 6727.2 |
| 22.5°  | 6610.3 |
| 25°    | 6462.6 |
| 27.5°  | 6274.0 |
| 30°    | 5803.6 |
| 32.5°  | 5114.8 |
| 35°    | 4329.5 |
| 37.5°  | 3483.5 |
| 40°    | 2819.4 |
| 42.5°  | 2231.3 |
| 45°    | 1679.0 |
| 47.5°  | 1183.1 |
| 50°    | 880.9  |
| 52.5°  | 1006.4 |
| 55°    | 1388.8 |
| 57.5°  | 1847.2 |
| 60°    | 2181.8 |
| 62.5°  | 2180.9 |
| 65°    | 1747.3 |
| 67.5°  | 1194.2 |
| 70°    | 780.2  |
| 72.5°  | 534.4  |
| 75°    | 386.7  |
| 77.5°  | 298.8  |
| 80°    | 249.3  |
| 82.5°  | 211.7  |
| 85°    | 180.1  |
| 87.5°  | 154.5  |
| 90°    | 132.3  |
| 92.5°  | 121.2  |
| 95°    | 114.4  |
| 97.5°  | 111.8  |
| 100°   | 113.5  |
| 102.5° | 114.4  |
| 105°   | 111.8  |
| 107.5° | 99.0   |
| 110°   | 93.9   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 115.2 |
| 115°   | 139.1 |
| 117.5° | 138.3 |
| 120°   | 123.8 |
| 122.5° | 105.0 |
| 125°   | 84.5  |
| 127.5° | 65.7  |
| 130°   | 52.1  |
| 132.5° | 42.7  |
| 135°   | 36.7  |
| 137.5° | 34.1  |
| 140°   | 35.9  |
| 142.5° | 41.8  |
| 145°   | 52.9  |
| 147.5° | 64.0  |
| 150°   | 70.0  |
| 152.5° | 72.6  |
| 155°   | 72.6  |
| 157.5° | 70.8  |
| 160°   | 68.3  |
| 162.5° | 64.0  |
| 165°   | 58.0  |
| 167.5° | 50.4  |
| 170°   | 43.5  |
| 172.5° | 37.6  |
| 175°   | 34.1  |
| 177.5° | 32.4  |
| 180°   | 31.6  |

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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 | 19.38            | 20.73 | 19.82 | 21.13 | 21.55 | 19.38          | 20.73 | 19.82 | 21.13 | 21.55 |
|                 | 3H   | 20.51            | 21.72 | 20.96 | 22.14 | 22.60 | 20.51          | 21.72 | 20.96 | 22.14 | 22.60 |
|                 | 4H   | 20.61            | 21.76 | 21.08 | 22.19 | 22.67 | 20.61          | 21.76 | 21.08 | 22.19 | 22.67 |
|                 | 6H   | 20.65            | 21.71 | 21.14 | 22.16 | 22.65 | 20.65          | 21.71 | 21.14 | 22.16 | 22.65 |
|                 | 8H   | 20.66            | 21.67 | 21.16 | 22.14 | 22.64 | 20.66          | 21.67 | 21.16 | 22.14 | 22.64 |
|                 | 12H  | 20.67            | 21.63 | 21.17 | 22.09 | 22.62 | 20.67          | 21.63 | 21.17 | 22.09 | 22.62 |
| 4H              | 2H   | 20.16            | 21.30 | 20.63 | 21.74 | 22.22 | 20.16          | 21.30 | 20.63 | 21.74 | 22.22 |
|                 | 3H   | 21.20            | 22.15 | 21.68 | 22.64 | 23.14 | 21.20          | 22.15 | 21.68 | 22.64 | 23.14 |
|                 | 4H   | 21.32            | 22.18 | 21.82 | 22.68 | 23.21 | 21.32          | 22.18 | 21.82 | 22.68 | 23.21 |
|                 | 6H   | 21.40            | 22.15 | 21.93 | 22.67 | 23.22 | 21.40          | 22.15 | 21.93 | 22.67 | 23.22 |
|                 | 8H   | 21.42            | 22.12 | 21.95 | 22.64 | 23.20 | 21.42          | 22.12 | 21.95 | 22.64 | 23.20 |
|                 | 12H  | 21.45            | 22.07 | 22.00 | 22.62 | 23.19 | 21.45          | 22.07 | 22.00 | 22.62 | 23.19 |
| 8H              | 4H   | 21.31            | 22.00 | 21.84 | 22.52 | 23.09 | 21.31          | 22.00 | 21.84 | 22.52 | 23.09 |
|                 | 6H   | 21.42            | 21.99 | 21.99 | 22.55 | 23.13 | 21.42          | 21.99 | 21.99 | 22.55 | 23.13 |
|                 | 8H   | 21.47            | 21.97 | 22.06 | 22.56 | 23.14 | 21.47          | 21.97 | 22.06 | 22.56 | 23.14 |
|                 | 12H  | 21.55            | 21.98 | 22.13 | 22.55 | 23.20 | 21.55          | 21.98 | 22.13 | 22.55 | 23.20 |
| 12H             | 4H   | 21.28            | 21.90 | 21.83 | 22.45 | 23.02 | 21.28          | 21.90 | 21.83 | 22.45 | 23.02 |
|                 | 6H   | 21.40            | 21.90 | 21.98 | 22.48 | 23.07 | 21.40          | 21.90 | 21.98 | 22.48 | 23.07 |
|                 | 8H   | 21.48            | 21.92 | 22.06 | 22.48 | 23.14 | 21.48          | 21.92 | 22.06 | 22.48 | 23.14 |