

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: P709445

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-CLER(4000K\_L15\_277V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P709445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS-1218-MV-L84050-CLER(4000K\_L15\_277V)  
Description: PRENTALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE  
LIGHT LEVEL - 15,0000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

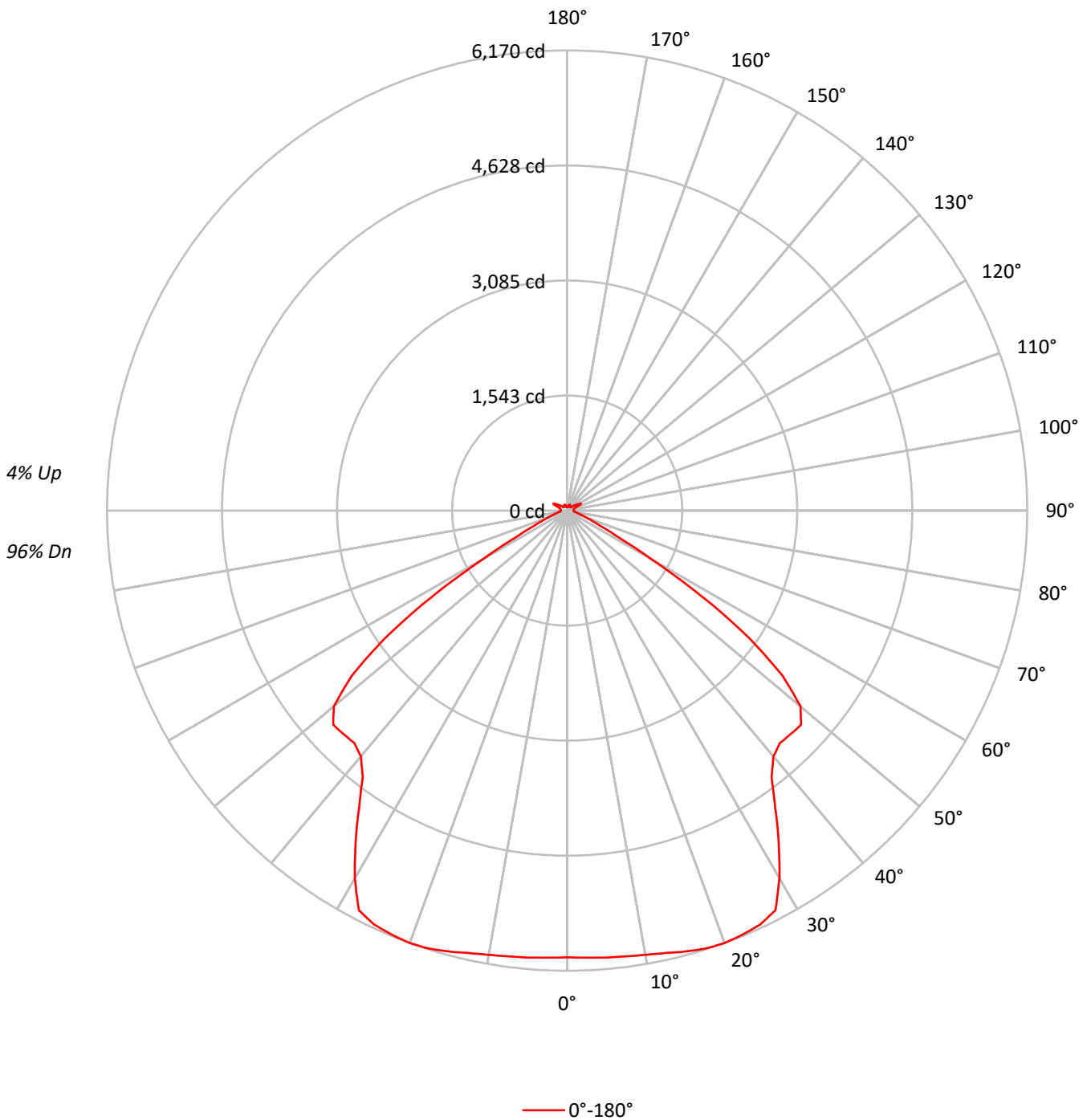
Lumens per Lamp: N/A  
Luminaire Lumens: 15530.6 lumens  
Efficiency: N/A  
Efficacy: 162.3 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 95.7  
Input Voltage (V): 277  
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 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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   | 110 | 106 | 103 | 100 | 107 | 103 | 100 | 98  | 99  | 96  | 94  | 94  | 92  | 90  | 90 | 88 | 87 | 85 |
| 2   | 102 | 95  | 89  | 84  | 99  | 93  | 87  | 83  | 88  | 84  | 80  | 85  | 81  | 78  | 81 | 78 | 76 | 74 |
| 3   | 94  | 85  | 78  | 72  | 91  | 83  | 76  | 71  | 79  | 74  | 69  | 76  | 72  | 68  | 73 | 69 | 66 | 64 |
| 4   | 86  | 76  | 68  | 62  | 84  | 74  | 67  | 62  | 71  | 65  | 60  | 69  | 63  | 59  | 66 | 62 | 58 | 56 |
| 5   | 80  | 68  | 60  | 54  | 78  | 67  | 59  | 54  | 64  | 58  | 53  | 62  | 56  | 52  | 60 | 55 | 51 | 49 |
| 6   | 74  | 62  | 54  | 48  | 72  | 61  | 53  | 47  | 59  | 52  | 47  | 57  | 51  | 46  | 55 | 49 | 45 | 43 |
| 7   | 69  | 56  | 48  | 42  | 67  | 55  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 50 | 45 | 40 | 39 |
| 8   | 64  | 51  | 43  | 38  | 62  | 50  | 43  | 38  | 49  | 42  | 37  | 47  | 41  | 37  | 46 | 40 | 36 | 35 |
| 9   | 60  | 47  | 39  | 34  | 58  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 33  | 42 | 37 | 33 | 31 |
| 10  | 56  | 44  | 36  | 31  | 55  | 43  | 36  | 31  | 42  | 35  | 31  | 40  | 34  | 30  | 39 | 34 | 30 | 28 |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 44767 |
| 5°  | 41568 |
| 10° | 39133 |
| 15° | 37516 |
| 20° | 36173 |
| 25° | 34668 |
| 30° | 31389 |
| 35° | 26315 |
| 40° | 23036 |
| 45° | 22633 |
| 50° | 21909 |
| 55° | 16201 |
| 60° | 7225  |
| 65° | 2892  |
| 70° | 1653  |
| 75° | 1022  |
| 80° | 752   |
| 85° | 646   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 22744 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 575.1   | 3.7       |
| 10°-20°   | 1735.7  | 11.2      |
| 20°-30°   | 2801.4  | 18.0      |
| 30°-40°   | 3066.5  | 19.7      |
| 40°-50°   | 3272.9  | 21.1      |
| 50°-60°   | 2547.7  | 16.4      |
| 60°-70°   | 601.6   | 3.9       |
| 70°-80°   | 186.6   | 1.2       |
| 80°-90°   | 103.0   | 0.7       |
| 90°-100°  | 93.6    | 0.6       |
| 100°-110° | 103.3   | 0.7       |
| 110°-120° | 171.5   | 1.1       |
| 120°-130° | 113.3   | 0.7       |
| 130°-140° | 54.1    | 0.3       |
| 140°-150° | 42.4    | 0.3       |
| 150°-160° | 38.5    | 0.2       |
| 160°-170° | 18.6    | 0.1       |
| 170°-180° | 4.6     | 0.0       |
| 0°-30°    | 5112.3  | 32.9      |
| 0°-40°    | 8178.8  | 52.7      |
| 0°-60°    | 13999.4 | 90.1      |
| 0°-90°    | 14890.7 | 95.9      |
| 90°-120°  | 368.4   | 2.4       |
| 90°-150°  | 578.2   | 3.7       |
| 90°-180°  | 640.0   | 4.1       |
| 0°-180°   | 15530.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 5990 |      |
| 5°   | 6016 | 575  |
| 15°  | 6121 | 1736 |
| 25°  | 6124 | 2801 |
| 35°  | 4862 | 3067 |
| 45°  | 4239 | 3273 |
| 55°  | 2983 | 2548 |
| 65°  | 507  | 602  |
| 75°  | 165  | 187  |
| 85°  | 92   | 80   |
| 90°  | 83   | 46   |
| 95°  | 86   | 71   |
| 105° | 96   | 103  |
| 115° | 195  | 172  |
| 125° | 123  | 113  |
| 135° | 66   | 54   |
| 145° | 66   | 42   |
| 155° | 86   | 38   |
| 165° | 63   | 19   |
| 175° | 46   | 5    |
| 180° | 46   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 5989.9 |
| 2.5°   | 6000.7 |
| 5°     | 6015.5 |
| 7.5°   | 6029.4 |
| 10°    | 6047.1 |
| 12.5°  | 6076.7 |
| 15°    | 6121.1 |
| 17.5°  | 6158.6 |
| 20°    | 6169.5 |
| 22.5°  | 6152.7 |
| 25°    | 6124.1 |
| 27.5°  | 6044.2 |
| 30°    | 5693.9 |
| 32.5°  | 5279.5 |
| 35°    | 4862.2 |
| 37.5°  | 4500.1 |
| 40°    | 4301.7 |
| 42.5°  | 4225.8 |
| 45°    | 4238.6 |
| 47.5°  | 4253.4 |
| 50°    | 4083.7 |
| 52.5°  | 3639.7 |
| 55°    | 2982.6 |
| 57.5°  | 2151.9 |
| 60°    | 1303.4 |
| 62.5°  | 781.4  |
| 65°    | 507.1  |
| 67.5°  | 369.0  |
| 70°    | 279.2  |
| 72.5°  | 211.1  |
| 75°    | 164.8  |
| 77.5°  | 135.2  |
| 80°    | 114.5  |
| 82.5°  | 100.6  |
| 85°    | 91.8   |
| 87.5°  | 86.8   |
| 90°    | 82.9   |
| 92.5°  | 84.9   |
| 95°    | 85.8   |
| 97.5°  | 86.8   |
| 100°   | 88.8   |
| 102.5° | 93.7   |
| 105°   | 95.7   |
| 107.5° | 99.7   |
| 110°   | 114.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 148.0 |
| 115°   | 195.4 |
| 117.5° | 206.2 |
| 120°   | 172.7 |
| 122.5° | 145.0 |
| 125°   | 123.3 |
| 127.5° | 103.6 |
| 130°   | 87.8  |
| 132.5° | 75.0  |
| 135°   | 66.1  |
| 137.5° | 62.2  |
| 140°   | 61.2  |
| 142.5° | 63.1  |
| 145°   | 66.1  |
| 147.5° | 72.0  |
| 150°   | 78.9  |
| 152.5° | 83.9  |
| 155°   | 85.8  |
| 157.5° | 83.9  |
| 160°   | 78.9  |
| 162.5° | 72.0  |
| 165°   | 63.1  |
| 167.5° | 56.2  |
| 170°   | 51.3  |
| 172.5° | 48.3  |
| 175°   | 46.4  |
| 177.5° | 46.4  |
| 180°   | 46.4  |

(END OF REPORT)