

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: P701311

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-WHTE(5000K_L15_120V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-1218-MV-L84050-WHTE(5000K_L15_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

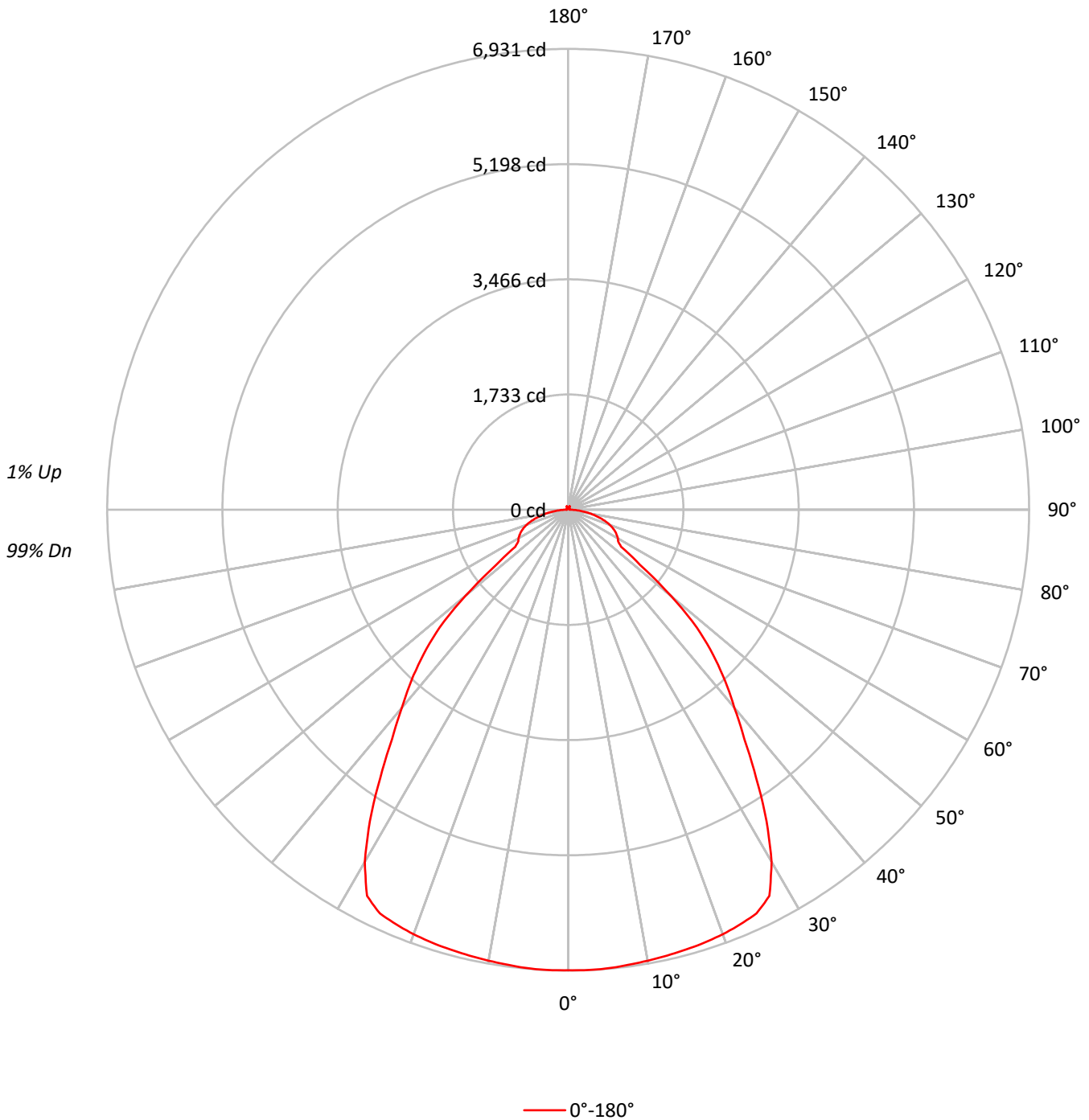
Lumens per Lamp: N/A
Luminaire Lumens: 13774.0 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 98.7
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 | 0 |
| 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 | 101 | 101 | 101 | 99 |
| 1 | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 93 | 92 | 92 | 90 | 89 | 87 |
| 2 | 102 | 95 | 90 | 85 | 100 | 93 | 88 | 84 | 90 | 85 | 82 | 86 | 83 | 80 | 83 | 80 | 78 | 76 |
| 3 | 95 | 86 | 79 | 74 | 92 | 84 | 78 | 73 | 81 | 76 | 71 | 79 | 74 | 70 | 76 | 72 | 69 | 67 |
| 4 | 88 | 78 | 70 | 65 | 86 | 77 | 70 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 59 |
| 5 | 82 | 71 | 63 | 57 | 80 | 70 | 62 | 57 | 68 | 61 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 |
| 6 | 77 | 65 | 57 | 51 | 75 | 64 | 57 | 51 | 62 | 56 | 51 | 60 | 55 | 50 | 59 | 54 | 50 | 48 |
| 7 | 72 | 60 | 52 | 46 | 70 | 59 | 51 | 46 | 57 | 51 | 46 | 56 | 50 | 45 | 54 | 49 | 45 | 43 |
| 8 | 67 | 55 | 47 | 42 | 66 | 54 | 47 | 42 | 53 | 46 | 42 | 52 | 46 | 41 | 50 | 45 | 41 | 39 |
| 9 | 63 | 51 | 43 | 38 | 62 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |
| 10 | 59 | 47 | 40 | 35 | 58 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 51779 |
| 5° | 47846 |
| 10° | 44571 |
| 15° | 41974 |
| 20° | 39844 |
| 25° | 37927 |
| 30° | 33714 |
| 35° | 26688 |
| 40° | 20827 |
| 45° | 16450 |
| 50° | 10818 |
| 55° | 5272 |
| 60° | 4775 |
| 65° | 4454 |
| 70° | 3935 |
| 75° | 3168 |
| 80° | 2249 |
| 85° | 1240 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16450 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 659.7 | 4.8 |
| 10°-20° | 1939.4 | 14.1 |
| 20°-30° | 3053.9 | 22.2 |
| 30°-40° | 3087.2 | 22.4 |
| 40°-50° | 2334.3 | 16.9 |
| 50°-60° | 1036.3 | 7.5 |
| 60°-70° | 767.4 | 5.6 |
| 70°-80° | 536.4 | 3.9 |
| 80°-90° | 193.7 | 1.4 |
| 90°-100° | 21.4 | 0.2 |
| 100°-110° | 21.6 | 0.2 |
| 110°-120° | 20.9 | 0.2 |
| 120°-130° | 20.8 | 0.2 |
| 130°-140° | 22.8 | 0.2 |
| 140°-150° | 24.0 | 0.2 |
| 150°-160° | 23.2 | 0.2 |
| 160°-170° | 9.4 | 0.1 |
| 170°-180° | 1.8 | 0.0 |
| 0°-30° | 5653.0 | 41.0 |
| 0°-40° | 8740.2 | 63.5 |
| 0°-60° | 12110.8 | 87.9 |
| 0°-90° | 13608.2 | 98.8 |
| 90°-120° | 63.9 | 0.5 |
| 90°-150° | 131.4 | 1.0 |
| 90°-180° | 166.0 | 1.2 |
| 0°-180° | 13774.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 6928 | |
| 5° | 6924 | 660 |
| 15° | 6849 | 1939 |
| 25° | 6700 | 3054 |
| 35° | 4931 | 3087 |
| 45° | 3081 | 2334 |
| 55° | 970 | 1036 |
| 65° | 781 | 767 |
| 75° | 511 | 536 |
| 85° | 176 | 178 |
| 90° | 20 | 21 |
| 95° | 19 | 16 |
| 105° | 20 | 22 |
| 115° | 21 | 21 |
| 125° | 22 | 21 |
| 135° | 30 | 23 |
| 145° | 38 | 24 |
| 155° | 52 | 23 |
| 165° | 26 | 9 |
| 175° | 18 | 2 |
| 180° | 18 | |

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 6928.2 |
| 2.5° | 6931.2 |
| 5° | 6924.1 |
| 7.5° | 6906.7 |
| 10° | 6887.4 |
| 12.5° | 6869.0 |
| 15° | 6848.6 |
| 17.5° | 6826.2 |
| 20° | 6795.6 |
| 22.5° | 6752.8 |
| 25° | 6699.8 |
| 27.5° | 6549.9 |
| 30° | 6115.7 |
| 32.5° | 5549.9 |
| 35° | 4931.1 |
| 37.5° | 4353.0 |
| 40° | 3889.2 |
| 42.5° | 3492.6 |
| 45° | 3080.8 |
| 47.5° | 2629.2 |
| 50° | 2016.5 |
| 52.5° | 1361.0 |
| 55° | 970.5 |
| 57.5° | 891.0 |
| 60° | 861.4 |
| 62.5° | 824.7 |
| 65° | 780.9 |
| 67.5° | 728.9 |
| 70° | 664.7 |
| 72.5° | 591.3 |
| 75° | 510.7 |
| 77.5° | 427.1 |
| 80° | 342.5 |
| 82.5° | 258.9 |
| 85° | 176.4 |
| 87.5° | 94.8 |
| 90° | 20.4 |
| 92.5° | 18.4 |
| 95° | 19.4 |
| 97.5° | 20.4 |
| 100° | 20.4 |
| 102.5° | 20.4 |
| 105° | 20.4 |
| 107.5° | 20.4 |
| 110° | 20.4 |

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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|------|
| 112.5° | 20.4 |
| 115° | 21.4 |
| 117.5° | 21.4 |
| 120° | 21.4 |
| 122.5° | 22.4 |
| 125° | 22.4 |
| 127.5° | 24.5 |
| 130° | 25.5 |
| 132.5° | 27.5 |
| 135° | 29.6 |
| 137.5° | 31.6 |
| 140° | 33.6 |
| 142.5° | 35.7 |
| 145° | 37.7 |
| 147.5° | 40.8 |
| 150° | 44.9 |
| 152.5° | 48.9 |
| 155° | 52.0 |
| 157.5° | 53.0 |
| 160° | 50.0 |
| 162.5° | 43.8 |
| 165° | 26.5 |
| 167.5° | 19.4 |
| 170° | 19.4 |
| 172.5° | 18.4 |
| 175° | 18.4 |
| 177.5° | 18.4 |
| 180° | 18.4 |

(END OF REPORT)