

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: P735799

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L24_120V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L24_120V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL 1 - 24,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

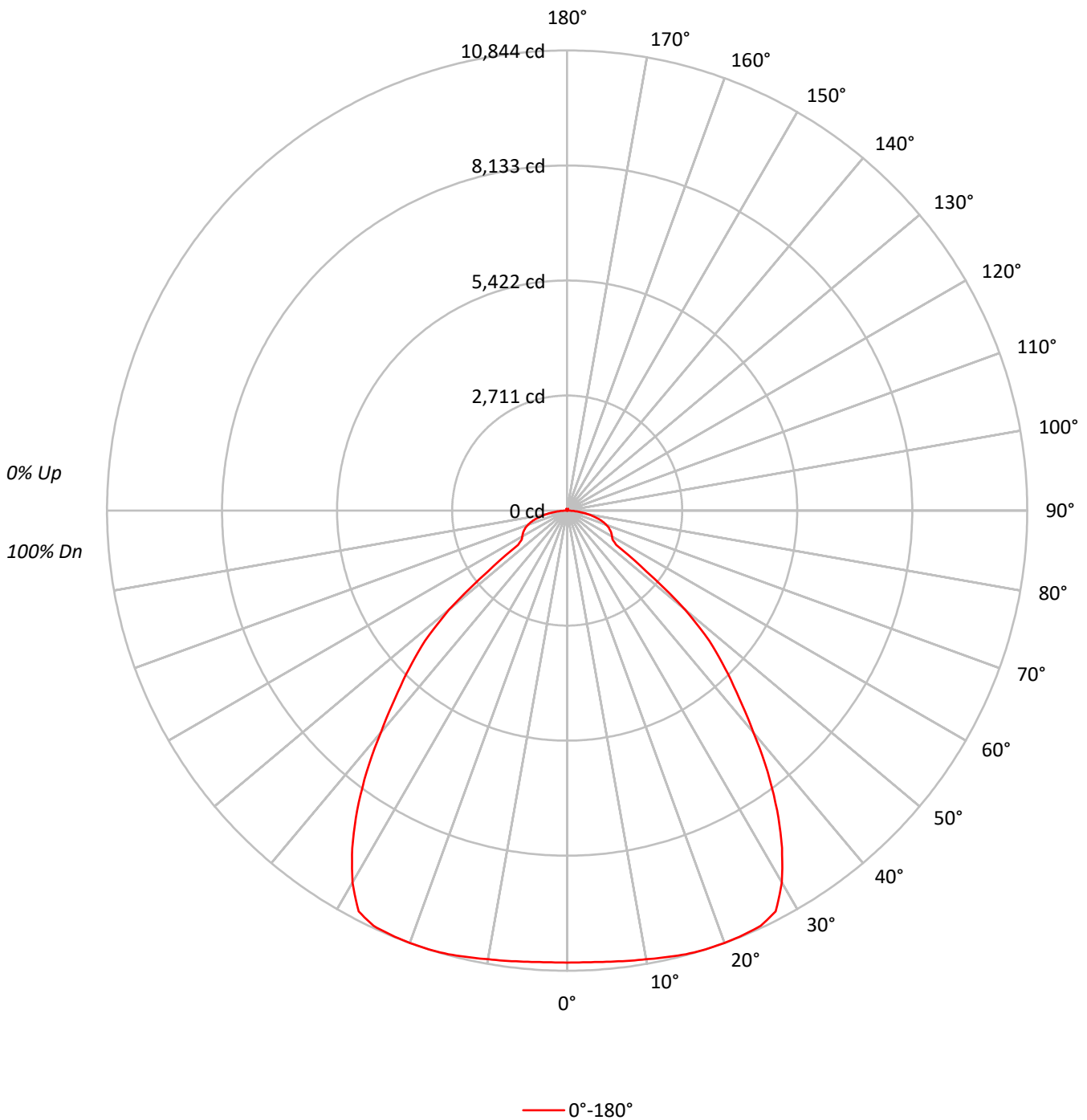
Lumens per Lamp: N/A
Luminaire Lumens: 22341.2 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 147.2
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 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 98 | 100 | 98 | 95 | 96 | 94 | 92 | 93 | 91 | 90 | 88 |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 84 | 81 | 79 | 77 |
| 3 | 95 | 86 | 80 | 74 | 93 | 85 | 79 | 74 | 82 | 77 | 72 | 79 | 75 | 71 | 77 | 73 | 70 | 68 |
| 4 | 88 | 78 | 71 | 65 | 86 | 77 | 70 | 65 | 75 | 69 | 64 | 72 | 67 | 63 | 70 | 66 | 62 | 60 |
| 5 | 82 | 71 | 64 | 58 | 80 | 70 | 63 | 57 | 68 | 62 | 57 | 66 | 61 | 56 | 64 | 60 | 56 | 54 |
| 6 | 77 | 65 | 57 | 52 | 75 | 64 | 57 | 51 | 62 | 56 | 51 | 61 | 55 | 51 | 59 | 54 | 50 | 48 |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 45 | 44 |
| 8 | 67 | 55 | 47 | 42 | 66 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 45 | 41 | 40 |
| 9 | 63 | 51 | 44 | 39 | 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° | 50029 |
| 5° | 47114 |
| 10° | 45034 |
| 15° | 43560 |
| 20° | 42242 |
| 25° | 41080 |
| 30° | 37895 |
| 35° | 32045 |
| 40° | 25382 |
| 45° | 19708 |
| 50° | 13767 |
| 55° | 5497 |
| 60° | 4891 |
| 65° | 4693 |
| 70° | 4315 |
| 75° | 3594 |
| 80° | 2506 |
| 85° | 1238 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19708 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1020.9 | 4.6 |
| 10°-20° | 3065.8 | 13.7 |
| 20°-30° | 4939.3 | 22.1 |
| 30°-40° | 5345.9 | 23.9 |
| 40°-50° | 4042.1 | 18.1 |
| 50°-60° | 1655.3 | 7.4 |
| 60°-70° | 1107.6 | 5.0 |
| 70°-80° | 802.4 | 3.6 |
| 80°-90° | 255.2 | 1.1 |
| 90°-100° | 7.1 | 0.0 |
| 100°-110° | 9.3 | 0.0 |
| 110°-120° | 11.8 | 0.1 |
| 120°-130° | 14.3 | 0.1 |
| 130°-140° | 18.5 | 0.1 |
| 140°-150° | 22.6 | 0.1 |
| 150°-160° | 16.6 | 0.1 |
| 160°-170° | 5.0 | 0.0 |
| 170°-180° | 1.6 | 0.0 |
| 0°-30° | 9026.1 | 40.4 |
| 0°-40° | 14372.0 | 64.3 |
| 0°-60° | 20069.4 | 89.8 |
| 0°-90° | 22234.5 | 99.5 |
| 90°-120° | 28.2 | 0.1 |
| 90°-150° | 83.5 | 0.4 |
| 90°-180° | 107.0 | 0.5 |
| 0°-180° | 22341.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-------|------|
| 0° | 10653 | |
| 5° | 10673 | ### |
| 15° | 10824 | 3066 |
| 25° | 10798 | 4939 |
| 35° | 8628 | 5346 |
| 45° | 5271 | 4042 |
| 55° | 1416 | 1655 |
| 65° | 1125 | 1108 |
| 75° | 772 | 802 |
| 85° | 227 | 241 |
| 90° | 8 | 16 |
| 95° | 6 | 5 |
| 105° | 9 | 9 |
| 115° | 12 | 12 |
| 125° | 16 | 14 |
| 135° | 24 | 18 |
| 145° | 36 | 23 |
| 155° | 37 | 17 |
| 165° | 16 | 5 |
| 175° | 17 | 2 |
| 180° | 18 | |

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|---------|
| 0° | 10653.4 |
| 2.5° | 10651.8 |
| 5° | 10673.2 |
| 7.5° | 10703.5 |
| 10° | 10736.9 |
| 12.5° | 10781.5 |
| 15° | 10823.7 |
| 17.5° | 10844.4 |
| 20° | 10841.2 |
| 22.5° | 10827.7 |
| 25° | 10798.2 |
| 27.5° | 10645.4 |
| 30° | 10120.9 |
| 32.5° | 9423.7 |
| 35° | 8628.5 |
| 37.5° | 7765.0 |
| 40° | 6837.7 |
| 42.5° | 5998.8 |
| 45° | 5271.4 |
| 47.5° | 4543.1 |
| 50° | 3627.8 |
| 52.5° | 2363.1 |
| 55° | 1415.9 |
| 57.5° | 1266.3 |
| 60° | 1220.9 |
| 62.5° | 1178.8 |
| 65° | 1125.4 |
| 67.5° | 1062.5 |
| 70° | 984.5 |
| 72.5° | 887.4 |
| 75° | 772.0 |
| 77.5° | 639.1 |
| 80° | 500.6 |
| 82.5° | 362.9 |
| 85° | 226.8 |
| 87.5° | 93.9 |
| 90° | 8.0 |
| 92.5° | 5.6 |
| 95° | 6.4 |
| 97.5° | 6.4 |
| 100° | 7.2 |
| 102.5° | 8.0 |
| 105° | 8.8 |
| 107.5° | 9.6 |
| 110° | 10.3 |

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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|------|
| 112.5° | 11.1 |
| 115° | 11.9 |
| 117.5° | 12.7 |
| 120° | 13.5 |
| 122.5° | 14.3 |
| 125° | 15.9 |
| 127.5° | 17.5 |
| 130° | 19.1 |
| 132.5° | 21.5 |
| 135° | 23.9 |
| 137.5° | 26.3 |
| 140° | 29.4 |
| 142.5° | 31.8 |
| 145° | 35.8 |
| 147.5° | 40.6 |
| 150° | 44.6 |
| 152.5° | 41.4 |
| 155° | 36.6 |
| 157.5° | 28.7 |
| 160° | 23.1 |
| 162.5° | 17.5 |
| 165° | 15.9 |
| 167.5° | 15.9 |
| 170° | 15.9 |
| 172.5° | 16.7 |
| 175° | 16.7 |
| 177.5° | 17.5 |
| 180° | 18.3 |

(END OF REPORT)