

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: P735808

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-BLAK(5000K\_L24\_120V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-UHBS-2436-MV-L84050-BLAK(5000K\_L24\_120V)  
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH BLACK SHADE  
LIGHT LEVEL 1 - 24,0000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

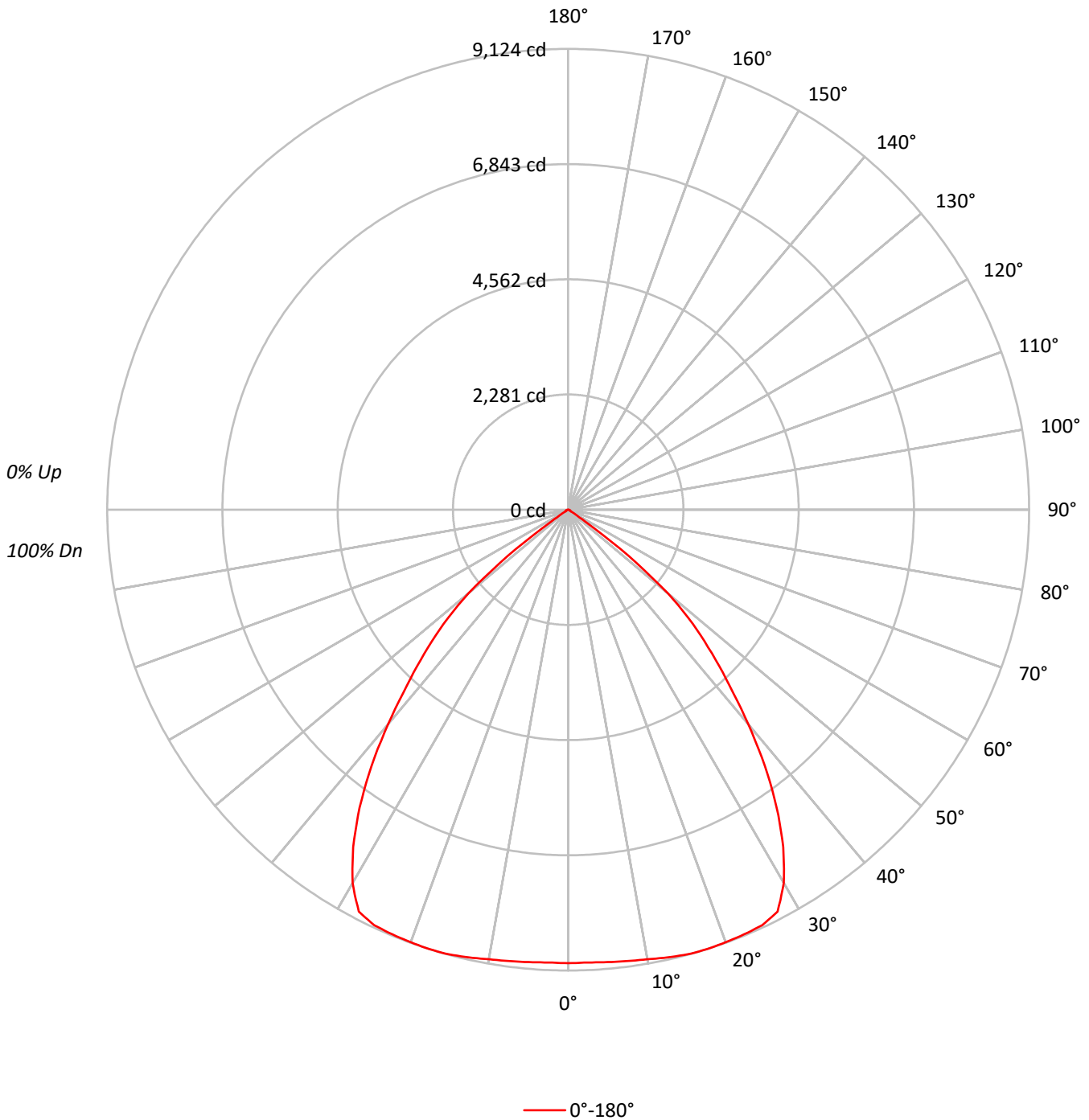
Lumens per Lamp: N/A  
Luminaire Lumens: 15941.2 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.23  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 145.8  
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	113	109	106	104	110	107	105	102	103	101	99		99	98	96		96	95	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	84	83
3	99	91	86	81	97	90	85	80	87	83	79		85	81	78		82	79	76	75
4	93	84	77	72	91	82	76	72	80	75	71		78	74	70		76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60	56	52	50
8	71	60	53	48	70	60	53	48	58	52	48		57	52	48		56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44		53	48	44		52	47	44	42
10	63	52	45	41	62	51	45	40	50	44	40		50	44	40		49	44	40	39

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

	0°
0°	42164
5°	39693
10°	37910
15°	36686
20°	35506
25°	34533
30°	31965
35°	26718
40°	20566
45°	15032
50°	9778
55°	1566
60°	198
65°	176
70°	168
75°	145
80°	104
85°	52

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15032 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	859.8	5.4
10°-20°	2580.2	16.2
20°-30°	4156.8	26.1
30°-40°	4447.4	27.9
40°-50°	3095.7	19.4
50°-60°	716.0	4.5
60°-70°	42.2	0.3
70°-80°	32.2	0.2
80°-90°	10.8	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7596.8	47.7
0°-40°	12044.2	75.6
0°-60°	15855.9	99.5
0°-90°	15941.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15941.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8978	
5°	8992	860
15°	9116	2580
25°	9077	4157
35°	7194	4447
45°	4021	3096
55°	403	716
65°	42	42
75°	31	32
85°	10	11
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8978.5
2.5°	8972.1
5°	8992.1
7.5°	9012.8
10°	9038.3
12.5°	9078.1
15°	9115.6
17.5°	9123.6
20°	9112.4
22.5°	9100.5
25°	9077.3
27.5°	8972.1
30°	8537.0
32.5°	7921.0
35°	7194.1
37.5°	6399.6
40°	5540.4
42.5°	4722.8
45°	4020.6
47.5°	3344.8
50°	2576.6
52.5°	1510.2
55°	403.3
57.5°	68.5
60°	49.4
62.5°	44.6
65°	42.2
67.5°	39.8
70°	38.3
72.5°	35.1
75°	31.1
77.5°	26.3
80°	20.7
82.5°	15.1
85°	9.6
87.5°	4.8
90°	0.0

(END OF REPORT)