

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: P735772

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-CLER(4000K\_L24\_120V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-UHBS-2436-MV-L84050-CLER(4000K\_L24\_120V)  
Description: PRENATALUX LARGE HIGH BAY LUMINAIRE WITH CLEAR SHADE  
LIGHT LEVEL 1 - 24,0000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

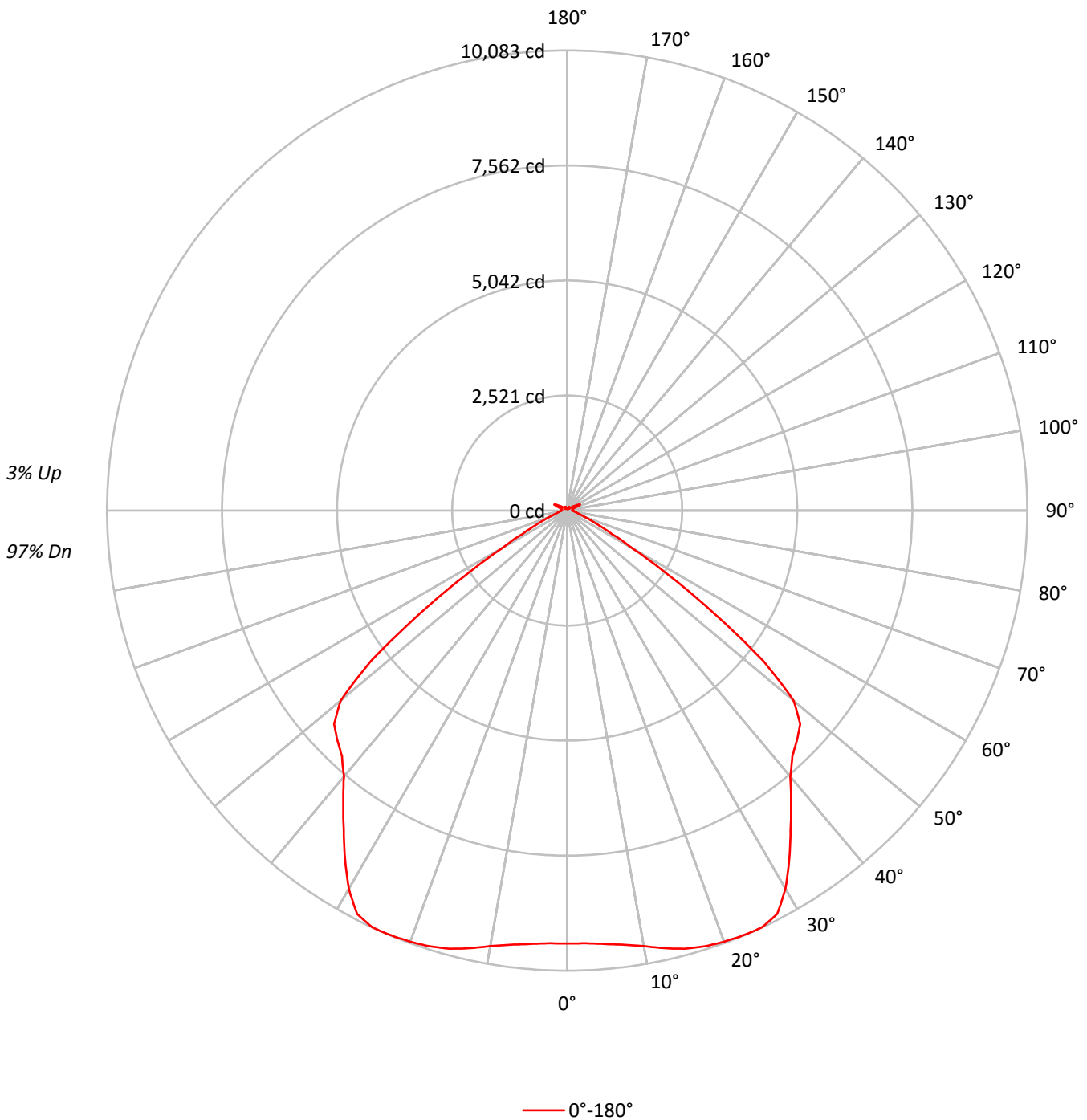
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24876.5 lumens  
Efficiency: N/A  
Efficacy: 169.0 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	110	106	103	100	107	104	101	98	99	97	94	95	93	91	91	89	88	86
2	102	95	90	85	99	93	88	84	89	85	81	86	82	79	82	79	77	75
3	94	85	78	73	92	84	77	72	80	75	70	77	73	69	74	71	67	65
4	87	77	69	63	85	75	68	63	72	66	61	70	65	60	67	63	59	57
5	81	69	61	55	78	68	60	55	65	59	54	63	58	53	61	56	52	50
6	75	63	55	49	73	62	54	48	59	53	48	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	54	48	43	53	47	42	51	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	43	38	34	32
10	57	44	37	32	55	44	36	32	42	36	31	41	35	31	40	35	31	29

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

	0°
0°	44542
5°	42076
10°	40631
15°	40005
20°	39168
25°	38358
30°	35830
35°	31697
40°	28248
45°	26615
50°	24588
55°	15262
60°	6663
65°	3229
70°	1838
75°	1197
80°	940
85°	812

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26615 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	914.7	3.7
10°-20°	2815.0	11.3
20°-30°	4616.2	18.6
30°-40°	5353.8	21.5
40°-50°	5487.0	22.1
50°-60°	3564.0	14.3
60°-70°	856.9	3.4
70°-80°	289.5	1.2
80°-90°	164.1	0.7
90°-100°	122.1	0.5
100°-110°	140.2	0.6
110°-120°	258.7	1.0
120°-130°	140.4	0.6
130°-140°	47.8	0.2
140°-150°	43.5	0.2
150°-160°	41.7	0.2
160°-170°	17.3	0.1
170°-180°	3.5	0.0
0°-30°	8345.9	33.5
0°-40°	13699.7	55.1
0°-60°	22750.7	91.5
0°-90°	24061.2	96.7
90°-120°	521.0	2.1
90°-150°	752.9	3.0
90°-180°	815.0	3.3
0°-180°	24876.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9485	
5°	9532	915
15°	9940	2815
25°	10083	4616
35°	8535	5354
45°	7119	5487
55°	3931	3564
65°	774	857
75°	257	290
85°	149	130
90°	117	66
95°	109	91
105°	124	140
115°	312	259
125°	154	140
135°	55	48
145°	70	44
155°	92	42
165°	59	17
175°	35	4
180°	35	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9484.9
2.5°	9488.9
5°	9531.9
7.5°	9594.8
10°	9687.1
12.5°	9823.2
15°	9940.2
17.5°	10013.4
20°	10052.4
22.5°	10075.5
25°	10082.7
27.5°	9967.3
30°	9569.3
32.5°	9059.1
35°	8534.6
37.5°	8060.3
40°	7609.8
42.5°	7302.5
45°	7118.7
47.5°	6927.7
50°	6479.6
52.5°	5423.4
55°	3931.0
57.5°	2659.2
60°	1663.5
62.5°	1103.9
65°	774.4
67.5°	563.5
70°	419.4
72.5°	320.8
75°	257.1
77.5°	216.5
80°	187.8
82.5°	165.6
85°	148.8
87.5°	135.3
90°	117.0
92.5°	111.4
95°	109.0
97.5°	110.6
100°	116.2
102.5°	120.2
105°	124.2
107.5°	140.1
110°	176.7

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	244.3
115°	312.0
117.5°	287.3
120°	224.4
122.5°	186.2
125°	153.6
127.5°	122.6
130°	93.1
132.5°	70.0
135°	54.9
137.5°	48.6
140°	49.3
142.5°	57.3
145°	70.0
147.5°	82.8
150°	92.3
152.5°	94.7
155°	92.3
157.5°	86.0
160°	78.0
162.5°	68.4
165°	58.9
167.5°	49.3
170°	40.6
172.5°	36.6
175°	35.0
177.5°	35.0
180°	35.0

(END OF REPORT)