

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: P735820

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-CLER(5000K\_L31\_120V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735820  
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(5000K\_L31\_120V)  
Description: PRENALLUX LARGE HIGH BAY LUMINAIRE WITH CLEAR SHADE  
LIGHT LEVEL 2 - 31,000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

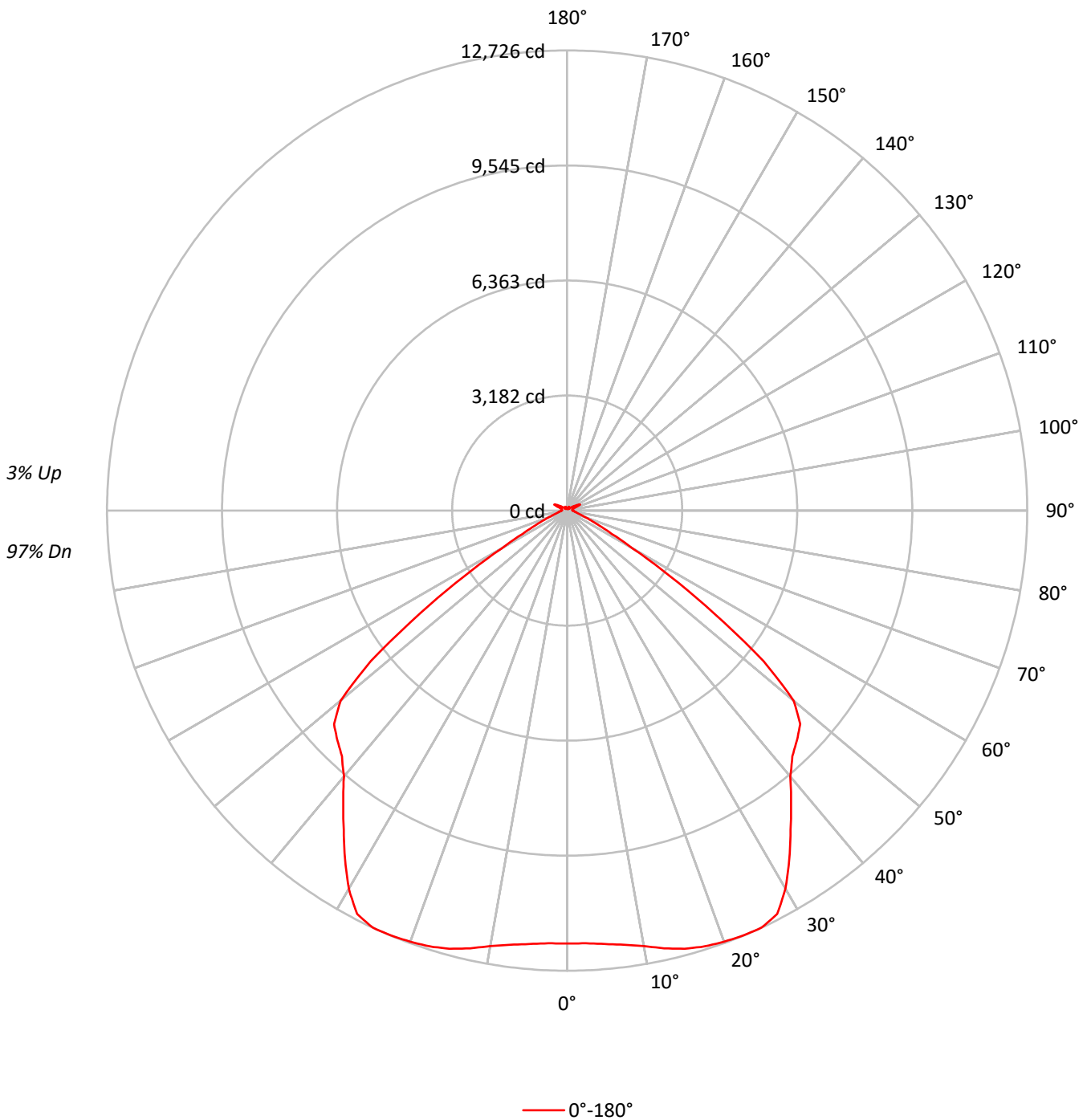
Lumens per Lamp: N/A  
Luminaire Lumens: 31398.6 lumens  
Efficiency: N/A  
Efficacy: 161.9 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 193.9  
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°	56220
5°	53107
10°	51283
15°	50493
20°	49438
25°	48414
30°	45224
35°	40007
40°	35654
45°	33592
50°	31035
55°	19264
60°	8410
65°	4076
70°	2320
75°	1511
80°	1187
85°	1025

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 33592 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1154.5	3.7
10°-20°	3553.0	11.3
20°-30°	5826.5	18.6
30°-40°	6757.4	21.5
40°-50°	6925.6	22.1
50°-60°	4498.4	14.3
60°-70°	1081.6	3.4
70°-80°	365.4	1.2
80°-90°	207.2	0.7
90°-100°	154.1	0.5
100°-110°	177.0	0.6
110°-120°	326.6	1.0
120°-130°	177.3	0.6
130°-140°	60.4	0.2
140°-150°	55.0	0.2
150°-160°	52.6	0.2
160°-170°	21.8	0.1
170°-180°	4.4	0.0
0°-30°	10534.0	33.5
0°-40°	17291.4	55.1
0°-60°	28715.4	91.5
0°-90°	30369.5	96.7
90°-120°	657.7	2.1
90°-150°	950.3	3.0
90°-180°	1029.0	3.3
0°-180°	31398.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11972	
5°	12031	###
15°	12546	3553
25°	12726	5826
35°	10772	6757
45°	8985	6926
55°	4962	4498
65°	978	1082
75°	324	365
85°	188	164
90°	148	83
95°	138	115
105°	157	177
115°	394	327
125°	194	177
135°	69	60
145°	88	55
155°	116	53
165°	74	22
175°	44	4
180°	44	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11971.7
2.5°	11976.7
5°	12031.0
7.5°	12110.3
10°	12226.8
12.5°	12398.6
15°	12546.3
17.5°	12638.7
20°	12688.0
22.5°	12717.1
25°	12726.1
27.5°	12580.5
30°	12078.2
32.5°	11434.2
35°	10772.2
37.5°	10173.5
40°	9604.9
42.5°	9217.1
45°	8985.0
47.5°	8743.9
50°	8178.4
52.5°	6845.3
55°	4961.7
57.5°	3356.3
60°	2099.6
62.5°	1393.4
65°	977.5
67.5°	711.2
70°	529.4
72.5°	404.8
75°	324.5
77.5°	273.2
80°	237.1
82.5°	209.0
85°	187.9
87.5°	170.8
90°	147.7
92.5°	140.6
95°	137.6
97.5°	139.6
100°	146.7
102.5°	151.7
105°	156.7
107.5°	176.8
110°	223.0

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	308.4
115°	393.8
117.5°	362.7
120°	283.3
122.5°	235.1
125°	193.9
127.5°	154.7
130°	117.5
132.5°	88.4
135°	69.3
137.5°	61.3
140°	62.3
142.5°	72.3
145°	88.4
147.5°	104.5
150°	116.5
152.5°	119.5
155°	116.5
157.5°	108.5
160°	98.4
162.5°	86.4
165°	74.3
167.5°	62.3
170°	51.2
172.5°	46.2
175°	44.2
177.5°	44.2
180°	44.2

(END OF REPORT)