

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: P735821

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-CLER(5000K\_L31\_277V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735821  
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\_277V)  
Description: PRENATALUX 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**

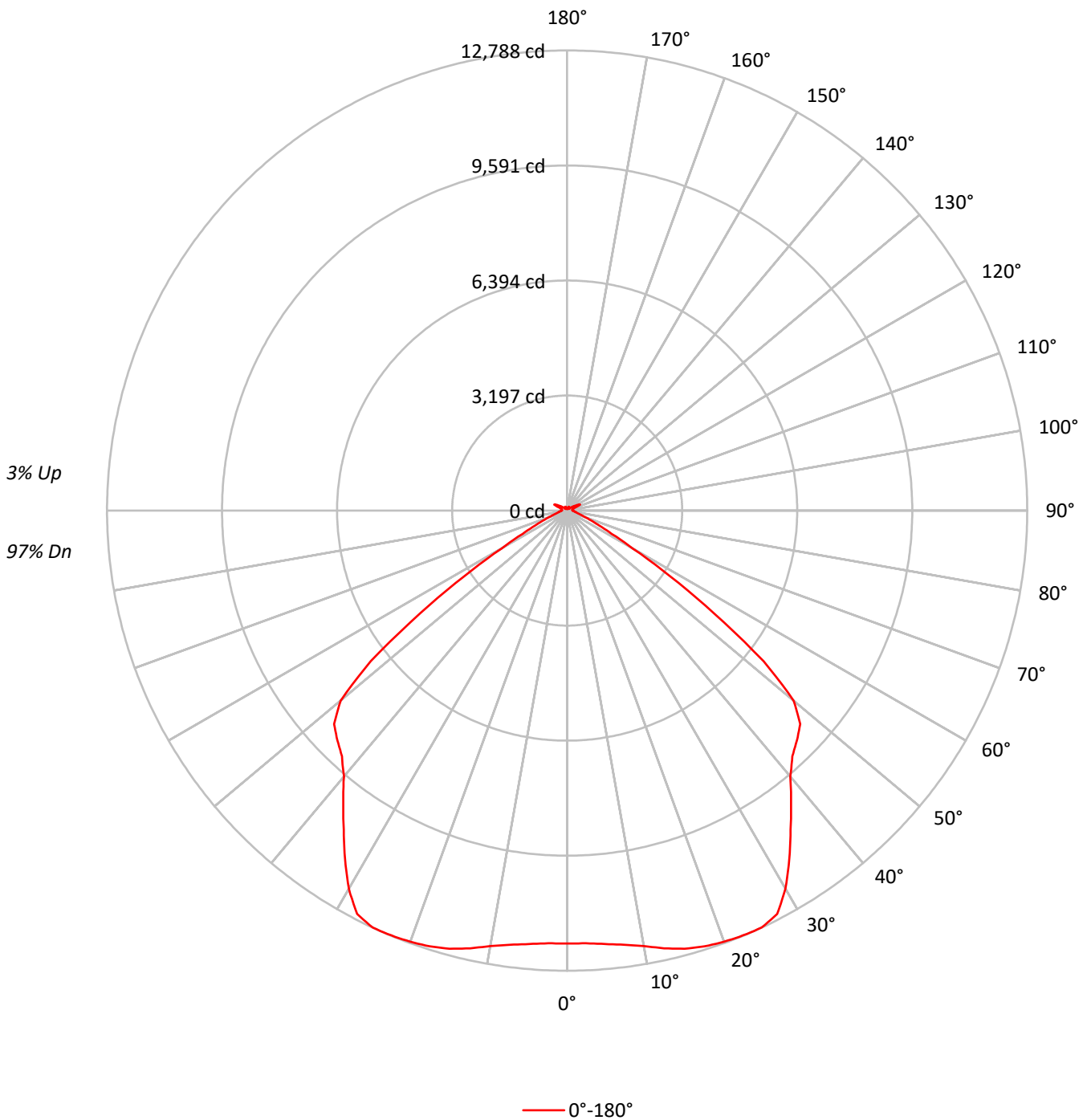
Lumens per Lamp: N/A  
Luminaire Lumens: 31550.8 lumens  
Efficiency: N/A  
Efficacy: 167.9 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 187.9  
Input Voltage (V): 277  
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°	56492
5°	53364
10°	51532
15°	50738
20°	49677
25°	48649
30°	45443
35°	40201
40°	35827
45°	33755
50°	31185
55°	19357
60°	8451
65°	4095
70°	2331
75°	1518
80°	1192
85°	1030

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 33755 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1160.1	3.7
10°-20°	3570.2	11.3
20°-30°	5854.7	18.6
30°-40°	6790.1	21.5
40°-50°	6959.1	22.1
50°-60°	4520.2	14.3
60°-70°	1086.8	3.4
70°-80°	367.2	1.2
80°-90°	208.2	0.7
90°-100°	154.9	0.5
100°-110°	177.8	0.6
110°-120°	328.2	1.0
120°-130°	178.1	0.6
130°-140°	60.7	0.2
140°-150°	55.2	0.2
150°-160°	52.8	0.2
160°-170°	21.9	0.1
170°-180°	4.5	0.0
0°-30°	10585.1	33.5
0°-40°	17375.2	55.1
0°-60°	28854.5	91.5
0°-90°	30516.7	96.7
90°-120°	660.9	2.1
90°-150°	954.9	3.0
90°-180°	1034.0	3.3
0°-180°	31550.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12030	
5°	12089	###
15°	12607	3570
25°	12788	5855
35°	10824	6790
45°	9029	6959
55°	4986	4520
65°	982	1087
75°	326	367
85°	189	164
90°	148	84
95°	138	115
105°	158	178
115°	396	328
125°	195	178
135°	70	61
145°	89	55
155°	117	53
165°	75	22
175°	44	4
180°	44	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	12029.7
2.5°	12034.7
5°	12089.3
7.5°	12169.0
10°	12286.1
12.5°	12458.7
15°	12607.1
17.5°	12700.0
20°	12749.4
22.5°	12778.7
25°	12787.8
27.5°	12641.4
30°	12136.7
32.5°	11489.6
35°	10824.4
37.5°	10222.8
40°	9651.4
42.5°	9261.8
45°	9028.6
47.5°	8786.3
50°	8218.0
52.5°	6878.4
55°	4985.7
57.5°	3372.6
60°	2109.8
62.5°	1400.1
65°	982.2
67.5°	714.7
70°	532.0
72.5°	406.8
75°	326.1
77.5°	274.6
80°	238.2
82.5°	210.0
85°	188.8
87.5°	171.6
90°	148.4
92.5°	141.3
95°	138.3
97.5°	140.3
100°	147.4
102.5°	152.4
105°	157.5
107.5°	177.7
110°	224.1

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	309.9
115°	395.7
117.5°	364.4
120°	284.7
122.5°	236.2
125°	194.8
127.5°	155.5
130°	118.1
132.5°	88.8
135°	69.7
137.5°	61.6
140°	62.6
142.5°	72.7
145°	88.8
147.5°	105.0
150°	117.1
152.5°	120.1
155°	117.1
157.5°	109.0
160°	98.9
162.5°	86.8
165°	74.7
167.5°	62.6
170°	51.5
172.5°	46.4
175°	44.4
177.5°	44.4
180°	44.4

(END OF REPORT)