

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: P735785

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-TRWH(4000K\_L31\_277V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-UHBS-2436-MV-L84050-TRWH(4000K\_L31\_277V)  
Description: PRENALLUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE  
LIGHT LEVEL 2 - 31,000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

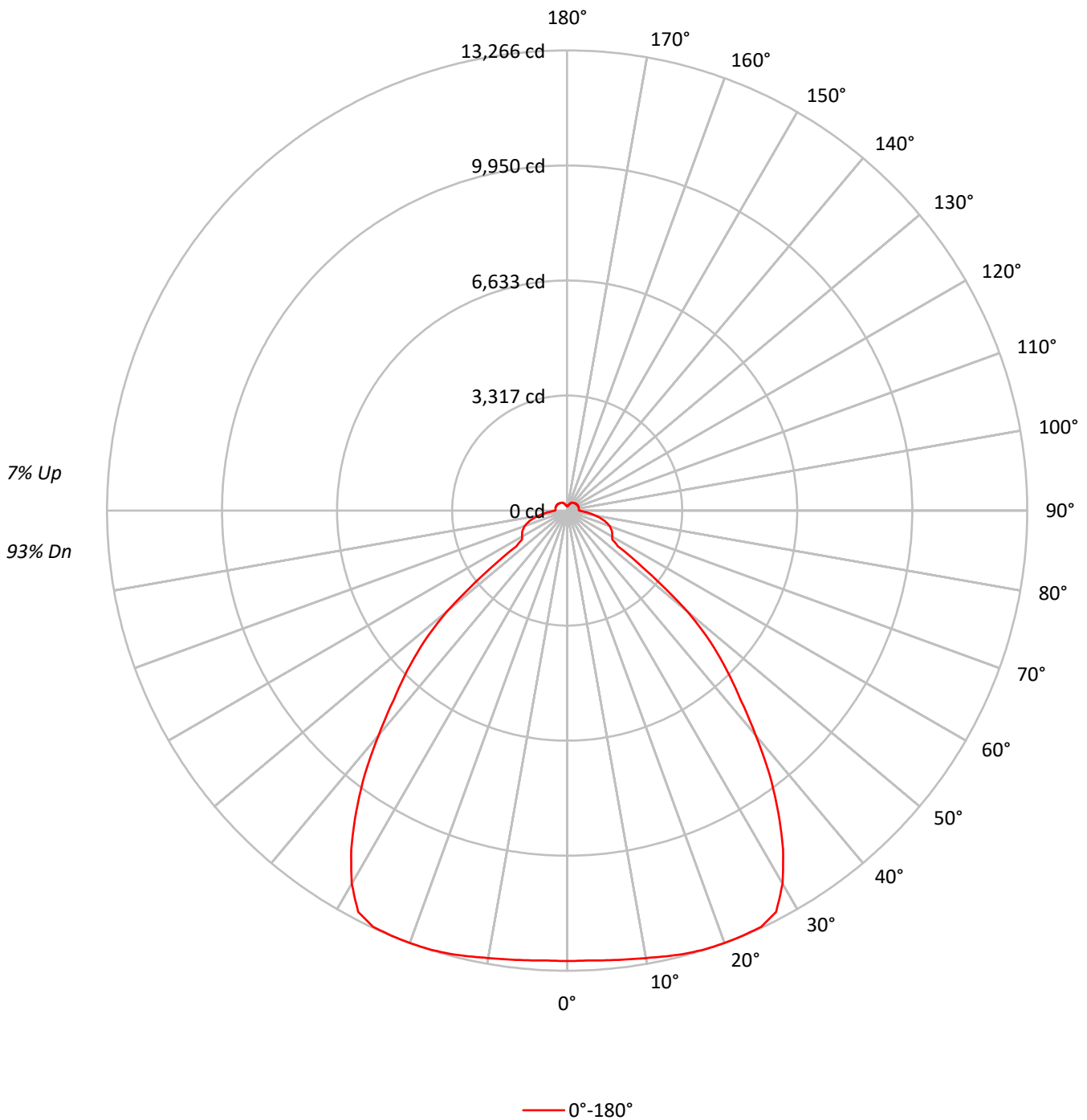
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29800.8 lumens  
Efficiency: N/A  
Efficacy: 157.5 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct  
  
Input Watts (W): 189.2  
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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	109	105	101	98	105	102	98	95	96	94	91	91	89	87	87	85	84	81
2	101	94	88	83	98	91	86	81	87	82	79	83	79	76	79	76	73	71
3	93	84	77	72	90	82	76	71	78	73	69	75	70	67	72	68	65	63
4	86	76	69	63	84	74	67	62	71	65	60	68	63	59	65	61	58	55
5	80	69	61	56	78	68	60	55	65	59	54	62	57	53	60	55	52	50
6	75	63	55	50	73	62	54	49	60	53	48	57	52	47	55	50	46	44
7	70	58	50	45	68	57	49	44	55	48	43	53	47	43	51	46	42	40
8	65	53	46	40	64	52	45	40	51	44	39	49	43	39	47	42	38	36
9	61	49	42	37	60	48	41	36	47	40	36	45	40	35	44	39	35	33
10	58	46	38	34	56	45	38	33	43	37	33	42	37	33	41	36	32	30

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

	0°
0°	60983
5°	57442
10°	54940
15°	53215
20°	51690
25°	50356
30°	46500
35°	39421
40°	31386
45°	24360
50°	17109
55°	6909
60°	6015
65°	5942
70°	5706
75°	5106
80°	4138
85°	3023

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24360 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1244.9	4.2
10°-20°	3746.0	12.6
20°-30°	6052.2	20.3
30°-40°	6581.7	22.1
40°-50°	4996.1	16.8
50°-60°	2075.3	7.0
60°-70°	1404.5	4.7
70°-80°	1145.3	3.8
80°-90°	614.0	2.1
90°-100°	371.3	1.2
100°-110°	364.3	1.2
110°-120°	336.3	1.1
120°-130°	289.7	1.0
130°-140°	233.4	0.8
140°-150°	174.5	0.6
150°-160°	109.4	0.4
160°-170°	48.9	0.2
170°-180°	13.1	0.0
0°-30°	11043.0	37.1
0°-40°	17624.7	59.1
0°-60°	24696.0	82.9
0°-90°	27859.8	93.5
90°-120°	1071.9	3.6
90°-150°	1769.6	5.9
90°-180°	1941.0	6.5
0°-180°	29800.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12986	
5°	13013	###
15°	13223	3746
25°	13237	6052
35°	10614	6582
45°	6516	4996
55°	1780	2075
65°	1425	1404
75°	1097	1145
85°	554	509
90°	342	198
95°	339	278
105°	345	364
115°	339	336
125°	323	290
135°	301	233
145°	277	175
155°	236	109
165°	168	49
175°	134	13
180°	128	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12985.9
2.5°	12983.9
5°	13013.1
7.5°	13051.4
10°	13098.7
12.5°	13160.1
15°	13222.6
17.5°	13257.8
20°	13265.9
22.5°	13258.8
25°	13236.7
27.5°	13043.3
30°	12419.0
32.5°	11587.1
35°	10614.3
37.5°	9580.1
40°	8455.2
42.5°	7410.9
45°	6515.6
47.5°	5604.2
50°	4508.6
52.5°	3044.3
55°	1779.5
57.5°	1539.8
60°	1501.5
62.5°	1467.3
65°	1425.0
67.5°	1370.6
70°	1302.1
72.5°	1210.5
75°	1096.7
77.5°	965.8
80°	826.8
82.5°	689.8
85°	553.9
87.5°	425.0
90°	342.4
92.5°	336.4
95°	339.4
97.5°	342.4
100°	343.4
102.5°	344.4
105°	345.4
107.5°	344.4
110°	343.4

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	341.4
115°	339.4
117.5°	336.4
120°	332.3
122.5°	328.3
125°	323.3
127.5°	317.2
130°	312.2
132.5°	307.2
135°	301.1
137.5°	295.1
140°	290.0
142.5°	284.0
145°	276.9
147.5°	270.9
150°	264.9
152.5°	251.8
155°	235.7
157.5°	217.5
160°	200.4
162.5°	183.3
165°	168.2
167.5°	155.1
170°	142.0
172.5°	139.0
175°	133.9
177.5°	129.9
180°	127.9

(END OF REPORT)