

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: P735829

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

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735829  
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(5000K\_L31\_120V)  
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE  
LIGHT LEVEL 2 - 31,000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

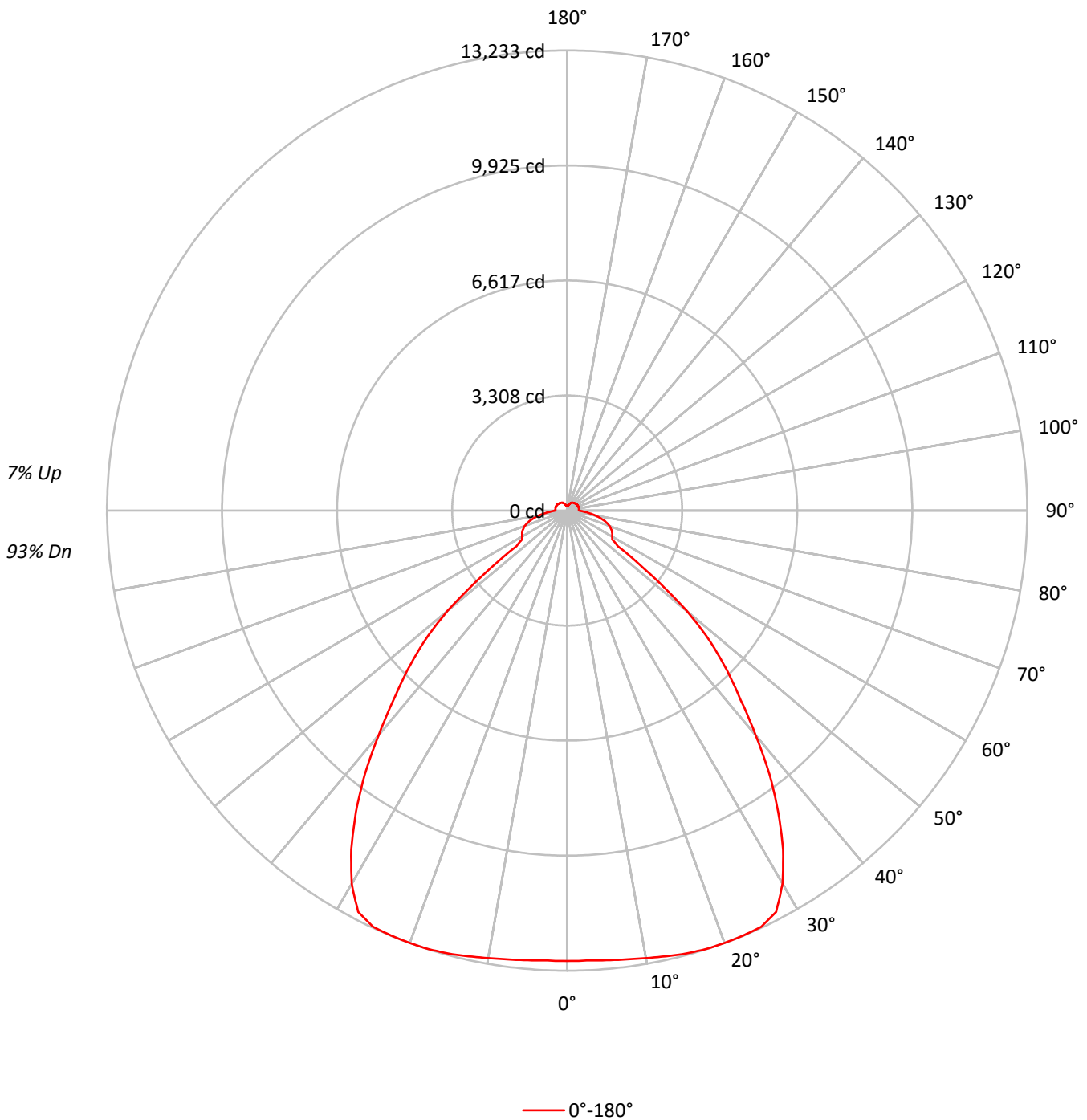
Lumens per Lamp: N/A  
Luminaire Lumens: 29727.8 lumens  
Efficiency: N/A  
Efficacy: 153.3 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 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	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°	60834
5°	57302
10°	54806
15°	53084
20°	51563
25°	50233
30°	46386
35°	39324
40°	31309
45°	24300
50°	17067
55°	6892
60°	6000
65°	5927
70°	5692
75°	5093
80°	4128
85°	3015

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24300 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1241.9	4.2
10°-20°	3736.8	12.6
20°-30°	6037.4	20.3
30°-40°	6565.6	22.1
40°-50°	4983.8	16.8
50°-60°	2070.2	7.0
60°-70°	1401.0	4.7
70°-80°	1142.5	3.8
80°-90°	612.4	2.1
90°-100°	370.3	1.2
100°-110°	363.5	1.2
110°-120°	335.5	1.1
120°-130°	289.0	1.0
130°-140°	232.9	0.8
140°-150°	174.1	0.6
150°-160°	109.1	0.4
160°-170°	48.7	0.2
170°-180°	13.0	0.0
0°-30°	11016.0	37.1
0°-40°	17581.6	59.1
0°-60°	24635.6	82.9
0°-90°	27791.6	93.5
90°-120°	1069.3	3.6
90°-150°	1765.3	5.9
90°-180°	1936.0	6.5
0°-180°	29727.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12954	
5°	12981	###
15°	13190	3737
25°	13204	6037
35°	10588	6566
45°	6500	4984
55°	1775	2070
65°	1422	1401
75°	1094	1142
85°	552	508
90°	342	198
95°	338	278
105°	345	363
115°	338	335
125°	322	289
135°	300	233
145°	276	174
155°	235	109
165°	168	49
175°	134	13
180°	128	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12954.2
2.5°	12952.2
5°	12981.3
7.5°	13019.5
10°	13066.7
12.5°	13128.0
15°	13190.2
17.5°	13225.4
20°	13233.4
22.5°	13226.4
25°	13204.3
27.5°	13011.4
30°	12388.6
32.5°	11558.8
35°	10588.4
37.5°	9556.7
40°	8434.5
42.5°	7392.8
45°	6499.7
47.5°	5590.5
50°	4497.5
52.5°	3036.9
55°	1775.1
57.5°	1536.0
60°	1497.8
62.5°	1463.7
65°	1421.5
67.5°	1367.2
70°	1298.9
72.5°	1207.5
75°	1094.0
77.5°	963.4
80°	824.8
82.5°	688.1
85°	552.5
87.5°	423.9
90°	341.6
92.5°	335.5
95°	338.5
97.5°	341.6
100°	342.6
102.5°	343.6
105°	344.6
107.5°	343.6
110°	342.6

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	340.6
115°	338.5
117.5°	335.5
120°	331.5
122.5°	327.5
125°	322.5
127.5°	316.4
130°	311.4
132.5°	306.4
135°	300.4
137.5°	294.3
140°	289.3
142.5°	283.3
145°	276.3
147.5°	270.2
150°	264.2
152.5°	251.1
155°	235.1
157.5°	217.0
160°	199.9
162.5°	182.8
165°	167.8
167.5°	154.7
170°	141.6
172.5°	138.6
175°	133.6
177.5°	129.6
180°	127.6

(END OF REPORT)