

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: P735784

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-TRWH(4000K\_L31\_120V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735784  
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\_120V)  
Description: PRENATALUX 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

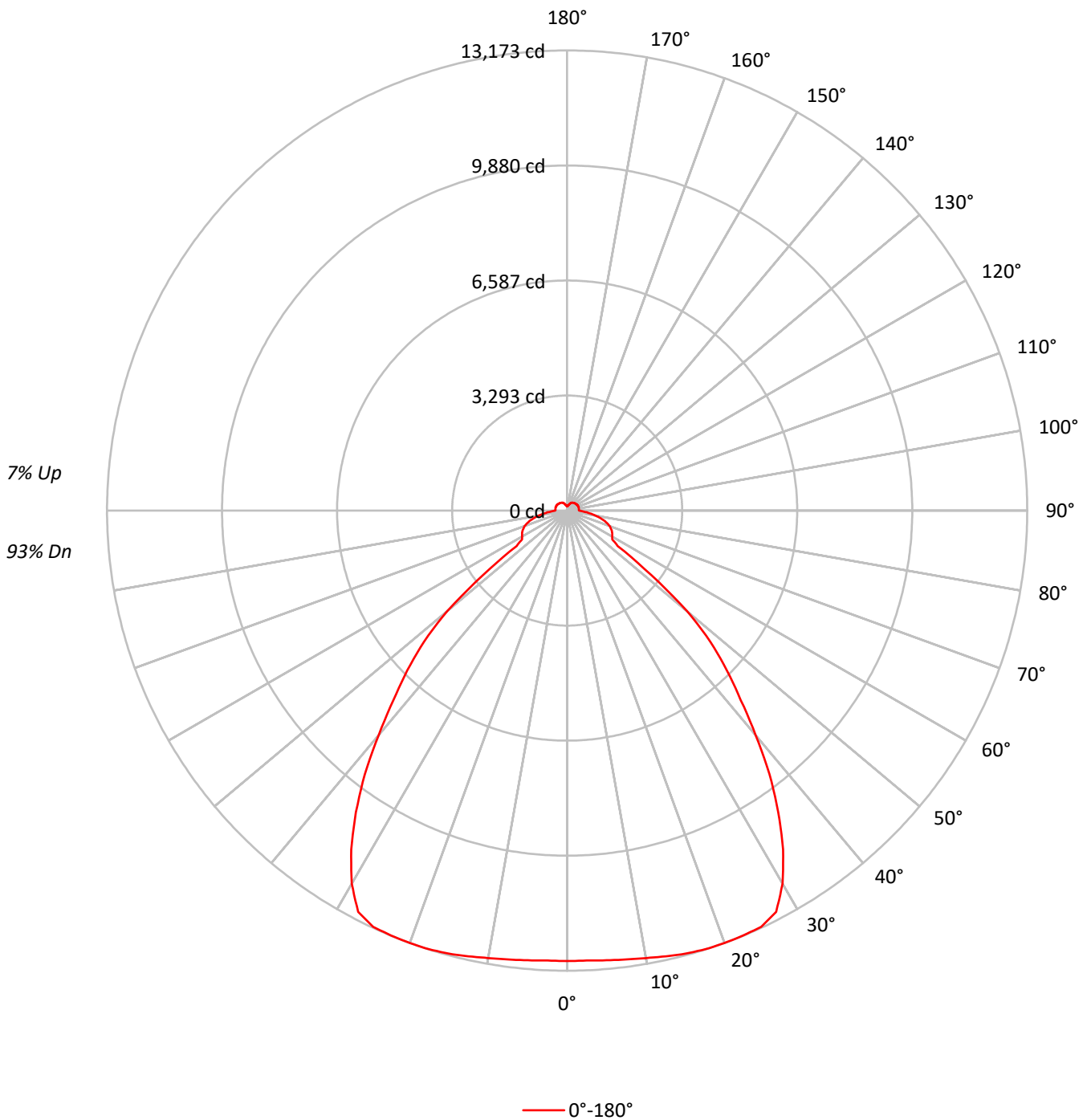
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29592.0 lumens  
Efficiency: N/A  
Efficacy: 151.7 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): 195.1  
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°	60556
5°	57040
10°	54556
15°	52842
20°	51328
25°	50004
30°	46174
35°	39145
40°	31167
45°	24189
50°	16989
55°	6860
60°	5972
65°	5900
70°	5667
75°	5070
80°	4109
85°	3001

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24189 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1236.2	4.2
10°-20°	3719.7	12.6
20°-30°	6009.8	20.3
30°-40°	6535.6	22.1
40°-50°	4961.1	16.8
50°-60°	2060.7	7.0
60°-70°	1394.6	4.7
70°-80°	1137.3	3.8
80°-90°	609.7	2.1
90°-100°	368.6	1.2
100°-110°	361.8	1.2
110°-120°	334.0	1.1
120°-130°	287.7	1.0
130°-140°	231.8	0.8
140°-150°	173.3	0.6
150°-160°	108.6	0.4
160°-170°	48.5	0.2
170°-180°	13.0	0.0
0°-30°	10965.7	37.1
0°-40°	17501.3	59.1
0°-60°	24523.1	82.9
0°-90°	27664.7	93.5
90°-120°	1064.4	3.6
90°-150°	1757.2	5.9
90°-180°	1927.0	6.5
0°-180°	29592.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12895	
5°	12922	###
15°	13130	3720
25°	13144	6010
35°	10540	6536
45°	6470	4961
55°	1767	2061
65°	1415	1395
75°	1089	1137
85°	550	505
90°	340	197
95°	337	276
105°	343	362
115°	337	334
125°	321	288
135°	299	232
145°	275	173
155°	234	109
165°	167	49
175°	133	13
180°	127	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	12895
2.5°	12893
5°	12922
7.5°	12960
10°	13007
12.5°	13068
15°	13130
17.5°	13165
20°	13173
22.5°	13166
25°	13144
27.5°	12952
30°	12332
32.5°	11506
35°	10540
37.5°	9513
40°	8396
42.5°	7359
45°	6470
47.5°	5565
50°	4477
52.5°	3023
55°	1767
57.5°	1529
60°	1491
62.5°	1457
65°	1415
67.5°	1361
70°	1293
72.5°	1202
75°	1089
77.5°	959
80°	821
82.5°	685
85°	550
87.5°	422
90°	340
92.5°	334
95°	337
97.5°	340
100°	341
102.5°	342
105°	343
107.5°	342
110°	341

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	339
115°	337
117.5°	334
120°	330
122.5°	326
125°	321
127.5°	315
130°	310
132.5°	305
135°	299
137.5°	293
140°	288
142.5°	282
145°	275
147.5°	269
150°	263
152.5°	250
155°	234
157.5°	216
160°	199
162.5°	182
165°	167
167.5°	154
170°	141
172.5°	138
175°	133
177.5°	129
180°	127

(END OF REPORT)