

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: P701312

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-WHTE(5000K\_L18\_120V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-UHBS-1218-MV-L84050-WHTE(5000K\_L18\_120V)  
Description: PRENTALUX HIGH BAY LUMINAIRE WITH WHITE SHADE  
LIGHT LEVEL - 18,000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

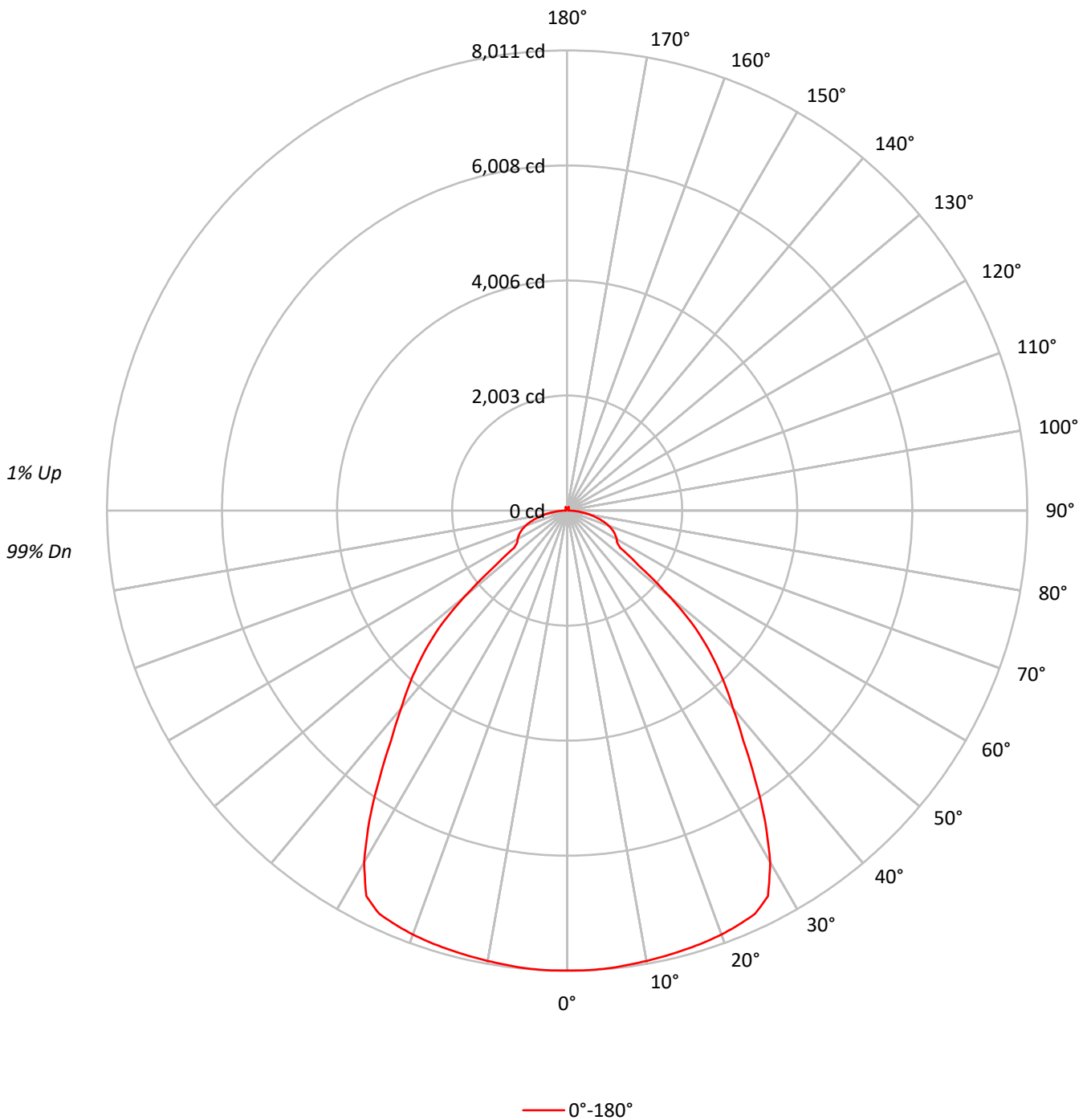
Lumens per Lamp: N/A  
Luminaire Lumens: 15919.5 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 118.4  
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	110	106	103	100	108	104	101	98	100	97	95	96	93	92	92	90	89	87
2	102	95	90	85	100	93	88	84	90	85	82	86	83	80	83	80	78	76
3	95	86	79	74	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	78	70	65	86	77	70	64	74	68	63	72	66	62	69	65	61	59
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	77	65	57	51	75	64	57	51	62	56	51	60	55	50	59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	45	54	49	45	43
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	50	45	41	39
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

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

	0°
0°	59844
5°	55299
10°	51514
15°	48513
20°	46050
25°	43835
30°	38965
35°	30844
40°	24072
45°	19012
50°	12504
55°	6093
60°	5519
65°	5148
70°	4548
75°	3662
80°	2600
85°	1433

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19012 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	762.4	4.8
10°-20°	2241.5	14.1
20°-30°	3529.6	22.2
30°-40°	3568.1	22.4
40°-50°	2697.9	16.9
50°-60°	1197.7	7.5
60°-70°	887.0	5.6
70°-80°	619.9	3.9
80°-90°	223.8	1.4
90°-100°	24.8	0.2
100°-110°	25.0	0.2
110°-120°	24.1	0.2
120°-130°	24.0	0.2
130°-140°	26.4	0.2
140°-150°	27.7	0.2
150°-160°	26.8	0.2
160°-170°	10.8	0.1
170°-180°	2.0	0.0
0°-30°	6533.6	41.0
0°-40°	10101.6	63.5
0°-60°	13997.2	87.9
0°-90°	15727.9	98.8
90°-120°	73.8	0.5
90°-150°	151.9	1.0
90°-180°	192.0	1.2
0°-180°	15919.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8007	
5°	8003	762
15°	7915	2242
25°	7743	3530
35°	5699	3568
45°	3561	2698
55°	1122	1198
65°	902	887
75°	590	620
85°	204	206
90°	24	24
95°	22	19
105°	24	25
115°	25	24
125°	26	24
135°	34	26
145°	44	28
155°	60	27
165°	31	11
175°	21	2
180°	21	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8007.3
2.5°	8010.8
5°	8002.6
7.5°	7982.6
10°	7960.2
12.5°	7939.0
15°	7915.4
17.5°	7889.5
20°	7854.1
22.5°	7804.6
25°	7743.4
27.5°	7570.2
30°	7068.2
32.5°	6414.3
35°	5699.1
37.5°	5031.1
40°	4495.0
42.5°	4036.6
45°	3560.6
47.5°	3038.7
50°	2330.6
52.5°	1572.9
55°	1121.7
57.5°	1029.8
60°	995.6
62.5°	953.2
65°	902.5
67.5°	842.4
70°	768.2
72.5°	683.4
75°	590.3
77.5°	493.7
80°	395.9
82.5°	299.3
85°	203.8
87.5°	109.6
90°	23.6
92.5°	21.2
95°	22.4
97.5°	23.6
100°	23.6
102.5°	23.6
105°	23.6
107.5°	23.6
110°	23.6

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	23.6
115°	24.7
117.5°	24.7
120°	24.7
122.5°	25.9
125°	25.9
127.5°	28.3
130°	29.5
132.5°	31.8
135°	34.2
137.5°	36.5
140°	38.9
142.5°	41.2
145°	43.6
147.5°	47.1
150°	51.8
152.5°	56.6
155°	60.1
157.5°	61.3
160°	57.7
162.5°	50.7
165°	30.6
167.5°	22.4
170°	22.4
172.5°	21.2
175°	21.2
177.5°	21.2
180°	21.2

(END OF REPORT)