

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: P701300

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-BLAK(5000K\_L15\_120V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701300  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS-1218-MV-L84050-BLAK(5000K\_L15\_120V)  
Description: PRENTALUX HIGH BAY LUMINAIRE WITH BLACK SHADE  
LIGHT LEVEL - 15,0000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

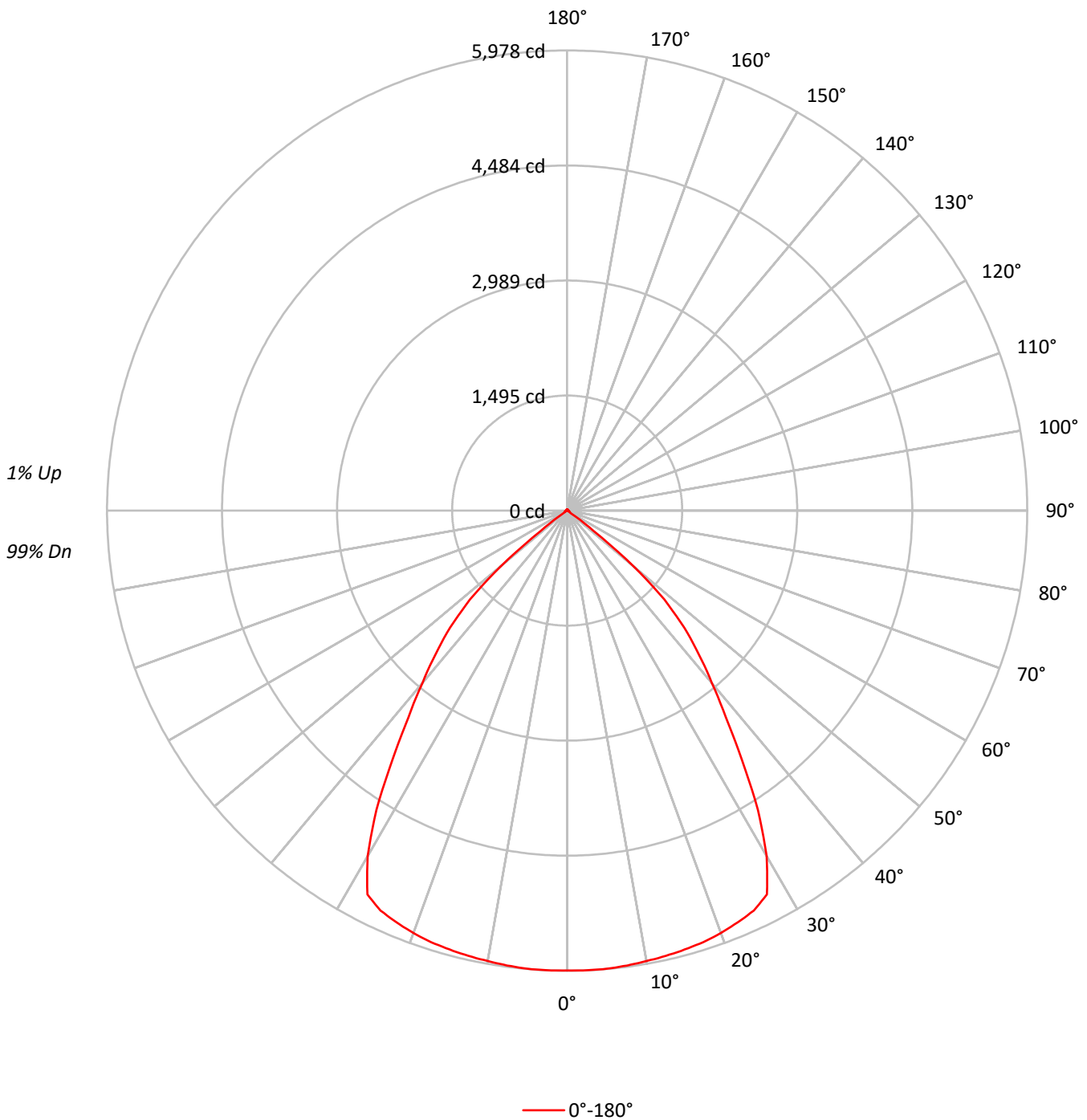
Lumens per Lamp: N/A  
Luminaire Lumens: 9316.1 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.14  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 98.7  
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	111	111	111		106	106	106		101	101	101	99
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	100	92	86	82	97	91	85	81	88	83	80		85	82	78		83	80	77	75
4	93	85	78	74	91	84	78	73	81	76	72		79	75	71		77	73	70	69
5	88	78	71	66	86	77	71	66	75	70	65		73	68	65		72	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	77	67	60	55	76	66	59	55	65	59	54		63	58	54		62	57	54	52
8	73	62	55	50	71	61	55	50	60	54	50		59	54	50		58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54	49	46	44
10	65	54	47	43	64	53	47	43	52	46	42		51	46	42		51	46	42	41

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

	0°
0°	44655
5°	41288
10°	38455
15°	36183
20°	34244
25°	32462
30°	28566
35°	21418
40°	15674
45°	11470
50°	6076
55°	310
60°	198
65°	180
70°	163
75°	127
80°	80
85°	43

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11470 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	569.2	6.1
10°-20°	1670.9	17.9
20°-30°	2614.6	28.1
30°-40°	2485.2	26.7
40°-50°	1612.4	17.3
50°-60°	240.8	2.6
60°-70°	31.3	0.3
70°-80°	21.1	0.2
80°-90°	7.2	0.1
90°-100°	9.1	0.1
100°-110°	9.7	0.1
110°-120°	9.1	0.1
120°-130°	8.6	0.1
130°-140°	8.8	0.1
140°-150°	8.1	0.1
150°-160°	6.1	0.1
160°-170°	3.1	0.0
170°-180°	0.8	0.0
0°-30°	4854.7	52.1
0°-40°	7339.9	78.8
0°-60°	9193.1	98.7
0°-90°	9252.7	99.3
90°-120°	27.9	0.3
90°-150°	53.4	0.6
90°-180°	63.0	0.7
0°-180°	9316.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5975	
5°	5975	569
15°	5904	1671
25°	5734	2615
35°	3958	2485
45°	2148	1612
55°	57	241
65°	32	31
75°	20	21
85°	6	6
90°	4	3
95°	9	7
105°	9	10
115°	9	9
125°	9	9
135°	11	9
145°	13	8
155°	13	6
165°	10	3
175°	8	1
180°	8	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5975.0
2.5°	5978.0
5°	5975.0
7.5°	5960.7
10°	5942.3
12.5°	5925.0
15°	5903.6
17.5°	5878.1
20°	5840.4
22.5°	5790.5
25°	5734.4
27.5°	5621.2
30°	5181.8
32.5°	4611.0
35°	3957.5
37.5°	3383.5
40°	2926.8
42.5°	2533.3
45°	2148.0
47.5°	1711.6
50°	1132.6
52.5°	431.2
55°	57.1
57.5°	38.7
60°	35.7
62.5°	33.6
65°	31.6
67.5°	29.6
70°	27.5
72.5°	23.4
75°	20.4
77.5°	16.3
80°	12.2
82.5°	9.2
85°	6.1
87.5°	3.1
90°	4.1
92.5°	8.2
95°	9.2
97.5°	9.2
100°	9.2
102.5°	9.2
105°	9.2
107.5°	9.2
110°	9.2

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	9.2
115°	9.2
117.5°	9.2
120°	9.2
122.5°	9.2
125°	9.2
127.5°	10.2
130°	10.2
132.5°	11.2
135°	11.2
137.5°	12.2
140°	12.2
142.5°	12.2
145°	13.3
147.5°	13.3
150°	13.3
152.5°	13.3
155°	13.3
157.5°	13.3
160°	12.2
162.5°	12.2
165°	10.2
167.5°	9.2
170°	9.2
172.5°	8.2
175°	8.2
177.5°	8.2
180°	8.2

(END OF REPORT)