

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: P701291

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(4000K\_L18\_120V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701291  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS-1218-MV-L84050-TRWH(4000K\_L18\_120V)  
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE  
LIGHT LEVEL - 18,000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

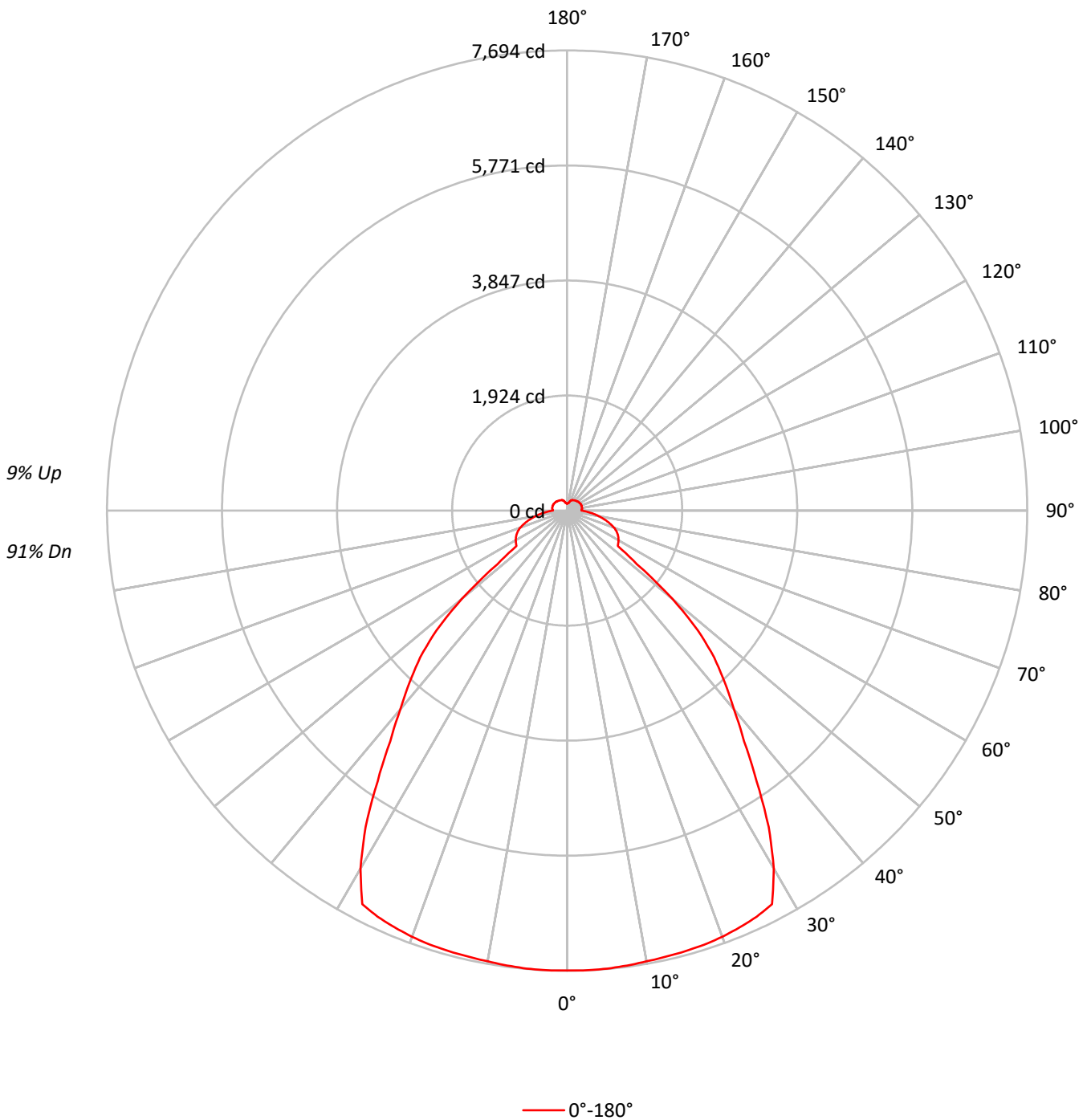
Lumens per Lamp: N/A  
Luminaire Lumens: 17078.6 lumens  
Efficiency: N/A  
Efficacy: 145.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 117.8  
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	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	108	104	100	97	104	101	97	94	95	92	90	90	88	85	85	83	82	79
2	100	93	87	82	97	90	85	80	85	81	77	81	77	74	77	74	71	69
3	92	83	76	71	89	81	75	69	77	72	67	73	69	65	70	66	63	61
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	54
5	80	68	60	55	77	67	59	54	64	58	53	61	56	51	58	54	50	48
6	74	62	55	49	72	61	54	48	59	52	47	56	51	46	54	49	45	43
7	69	57	49	44	67	56	49	44	54	47	43	52	46	42	50	45	41	39
8	65	53	45	40	63	52	44	39	50	43	39	48	42	38	46	41	37	36
9	61	49	41	36	59	48	41	36	46	40	35	45	39	35	43	38	34	32
10	57	45	38	33	56	44	38	33	43	37	32	42	36	32	40	35	31	30

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

	0°
0°	57464
5°	53123
10°	49525
15°	46748
20°	44463
25°	42423
30°	38096
35°	29907
40°	23233
45°	18559
50°	12313
55°	5619
60°	5503
65°	5312
70°	4936
75°	4287
80°	3518
85°	2700

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18559 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	732.6	4.3
10°-20°	2160.3	12.6
20°-30°	3430.3	20.1
30°-40°	3466.6	20.3
40°-50°	2623.2	15.4
50°-60°	1148.2	6.7
60°-70°	916.9	5.4
70°-80°	727.1	4.3
80°-90°	419.4	2.5
90°-100°	270.1	1.6
100°-110°	268.8	1.6
110°-120°	249.3	1.5
120°-130°	215.7	1.3
130°-140°	174.6	1.0
140°-150°	131.3	0.8
150°-160°	88.7	0.5
160°-170°	43.5	0.3
170°-180°	11.8	0.1
0°-30°	6323.2	37.0
0°-40°	9789.8	57.3
0°-60°	13561.2	79.4
0°-90°	15624.6	91.5
90°-120°	788.2	4.6
90°-150°	1309.9	7.7
90°-180°	1454.0	8.5
0°-180°	17078.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7689	
5°	7688	733
15°	7627	2160
25°	7494	3430
35°	5526	3467
45°	3476	2623
55°	1034	1148
65°	931	917
75°	691	727
85°	384	345
90°	237	141
95°	249	204
105°	255	269
115°	252	249
125°	241	216
135°	225	175
145°	209	131
155°	192	89
165°	147	43
175°	121	12
180°	116	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7688.8
2.5°	7693.5
5°	7687.7
7.5°	7672.6
10°	7652.9
12.5°	7640.1
15°	7627.4
17.5°	7611.1
20°	7583.3
22.5°	7542.7
25°	7494.0
27.5°	7418.6
30°	6910.7
32.5°	6269.4
35°	5526.0
37.5°	4861.5
40°	4338.4
42.5°	3900.1
45°	3475.6
47.5°	2964.2
50°	2295.1
52.5°	1471.7
55°	1034.5
57.5°	1013.6
60°	992.7
62.5°	964.9
65°	931.2
67.5°	889.5
70°	833.8
72.5°	764.2
75°	691.2
77.5°	613.5
80°	535.8
82.5°	460.4
85°	383.9
87.5°	308.5
90°	236.6
92.5°	244.7
95°	249.3
97.5°	251.7
100°	252.8
102.5°	254.0
105°	255.1
107.5°	254.0
110°	254.0

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	252.8
115°	251.7
117.5°	249.3
120°	247.0
122.5°	243.5
125°	241.2
127.5°	236.6
130°	233.1
132.5°	229.6
135°	225.0
137.5°	221.5
140°	216.9
142.5°	213.4
145°	208.7
147.5°	204.1
150°	200.6
152.5°	197.1
155°	192.5
157.5°	185.6
160°	177.4
162.5°	165.8
165°	147.3
167.5°	135.7
170°	129.9
172.5°	125.2
175°	120.6
177.5°	118.3
180°	116.0

(END OF REPORT)