

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: P709443

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-BLAK(4000K\_L18\_277V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P709443  
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(4000K\_L18\_277V)  
Description: PRENTALUX HIGH BAY LUMINAIRE WITH BLACK SHADE  
LIGHT LEVEL - 18,000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

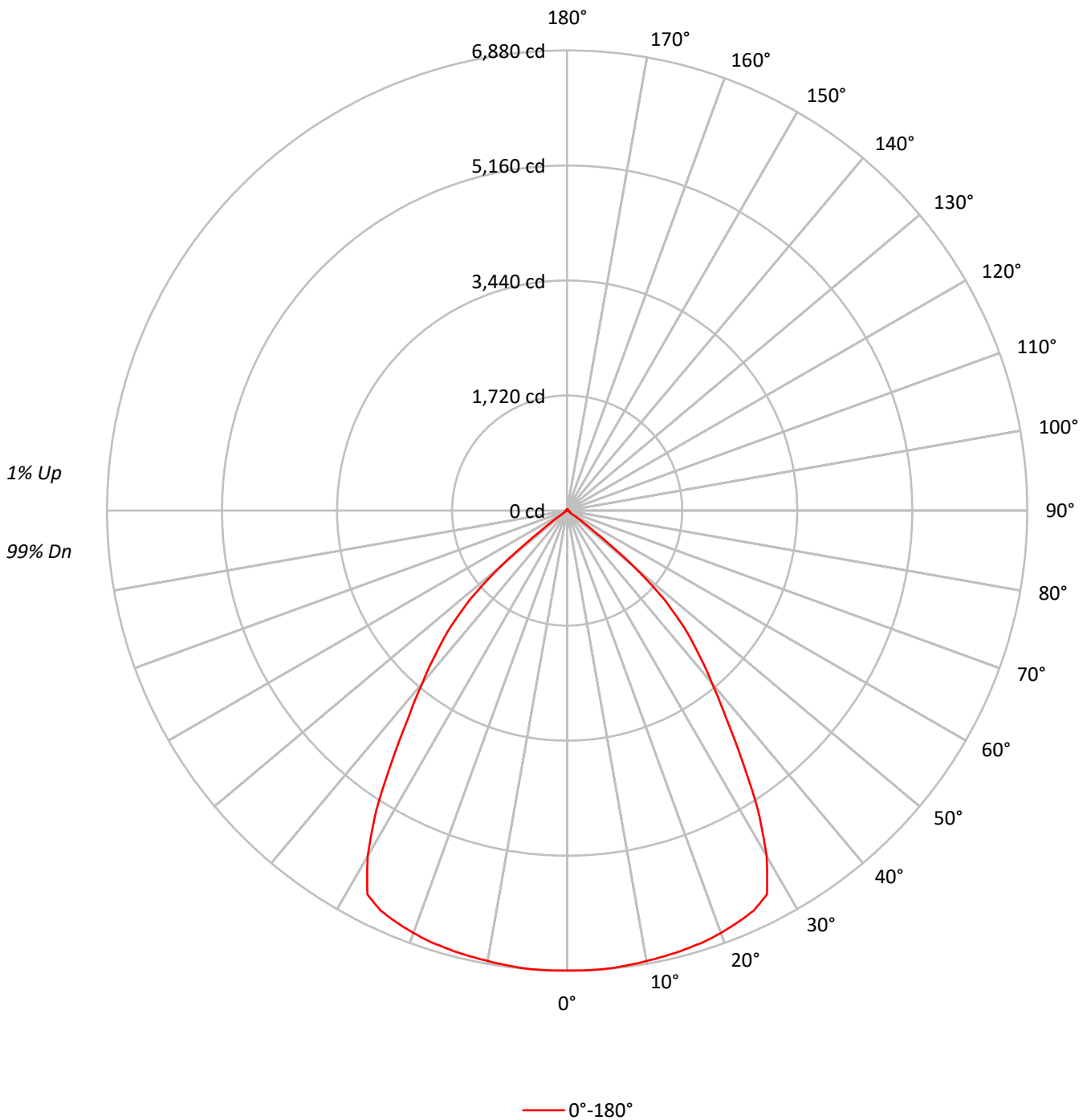
Lumens per Lamp: N/A  
Luminaire Lumens: 10721.2 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.14  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 119.7  
Input Voltage (V): 277  
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°	51391
5°	47516
10°	44256
15°	41640
20°	39409
25°	37359
30°	32875
35°	24649
40°	18038
45°	13200
50°	6993
55°	357
60°	228
65°	208
70°	188
75°	146
80°	93
85°	50

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13200 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	655.1	6.1
10°-20°	1922.9	17.9
20°-30°	3009.1	28.1
30°-40°	2860.1	26.7
40°-50°	1855.6	17.3
50°-60°	277.1	2.6
60°-70°	36.0	0.3
70°-80°	24.3	0.2
80°-90°	8.3	0.1
90°-100°	10.4	0.1
100°-110°	11.1	0.1
110°-120°	10.4	0.1
120°-130°	9.8	0.1
130°-140°	10.2	0.1
140°-150°	9.3	0.1
150°-160°	7.0	0.1
160°-170°	3.5	0.0
170°-180°	0.9	0.0
0°-30°	5587.1	52.1
0°-40°	8447.1	78.8
0°-60°	10579.9	98.7
0°-90°	10648.6	99.3
90°-120°	31.9	0.3
90°-150°	61.2	0.6
90°-180°	73.0	0.7
0°-180°	10721.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6876	
5°	6876	655
15°	6794	1923
25°	6599	3009
35°	4554	2860
45°	2472	1856
55°	66	277
65°	36	36
75°	24	24
85°	7	7
90°	5	3
95°	10	8
105°	10	11
115°	10	10
125°	10	10
135°	13	10
145°	15	9
155°	15	7
165°	12	4
175°	9	1
180°	9	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6876.3
2.5°	6879.8
5°	6876.3
7.5°	6859.9
10°	6838.7
12.5°	6818.8
15°	6794.1
17.5°	6764.9
20°	6721.4
22.5°	6663.9
25°	6599.4
27.5°	6469.2
30°	5963.5
32.5°	5306.5
35°	4554.5
37.5°	3894.0
40°	3368.3
42.5°	2915.5
45°	2472.0
47.5°	1969.8
50°	1303.4
52.5°	496.3
55°	65.7
57.5°	44.6
60°	41.1
62.5°	38.7
65°	36.4
67.5°	34.0
70°	31.7
72.5°	27.0
75°	23.5
77.5°	18.8
80°	14.1
82.5°	10.5
85°	7.1
87.5°	3.5
90°	4.7
92.5°	9.4
95°	10.5
97.5°	10.5
100°	10.5
102.5°	10.5
105°	10.5
107.5°	10.5
110°	10.5

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	10.5
115°	10.5
117.5°	10.5
120°	10.5
122.5°	10.5
125°	10.5
127.5°	11.7
130°	11.7
132.5°	12.9
135°	12.9
137.5°	14.1
140°	14.1
142.5°	14.1
145°	15.3
147.5°	15.3
150°	15.3
152.5°	15.3
155°	15.3
157.5°	15.3
160°	14.1
162.5°	14.1
165°	11.7
167.5°	10.5
170°	10.5
172.5°	9.4
175°	9.4
177.5°	9.4
180°	9.4

(END OF REPORT)