

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: P709453

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-BLAK(5000K\_L12\_277V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P709453  
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: Prenalux  
Catalog Number: PRLX-UHBS-1218-MV-L84050-BLAK(5000K\_L12\_277V)  
Description: PRENATALUX HIGH BAY LUMINAIRE WITH BLACK SHADE  
LIGHT LEVEL - 12,0000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

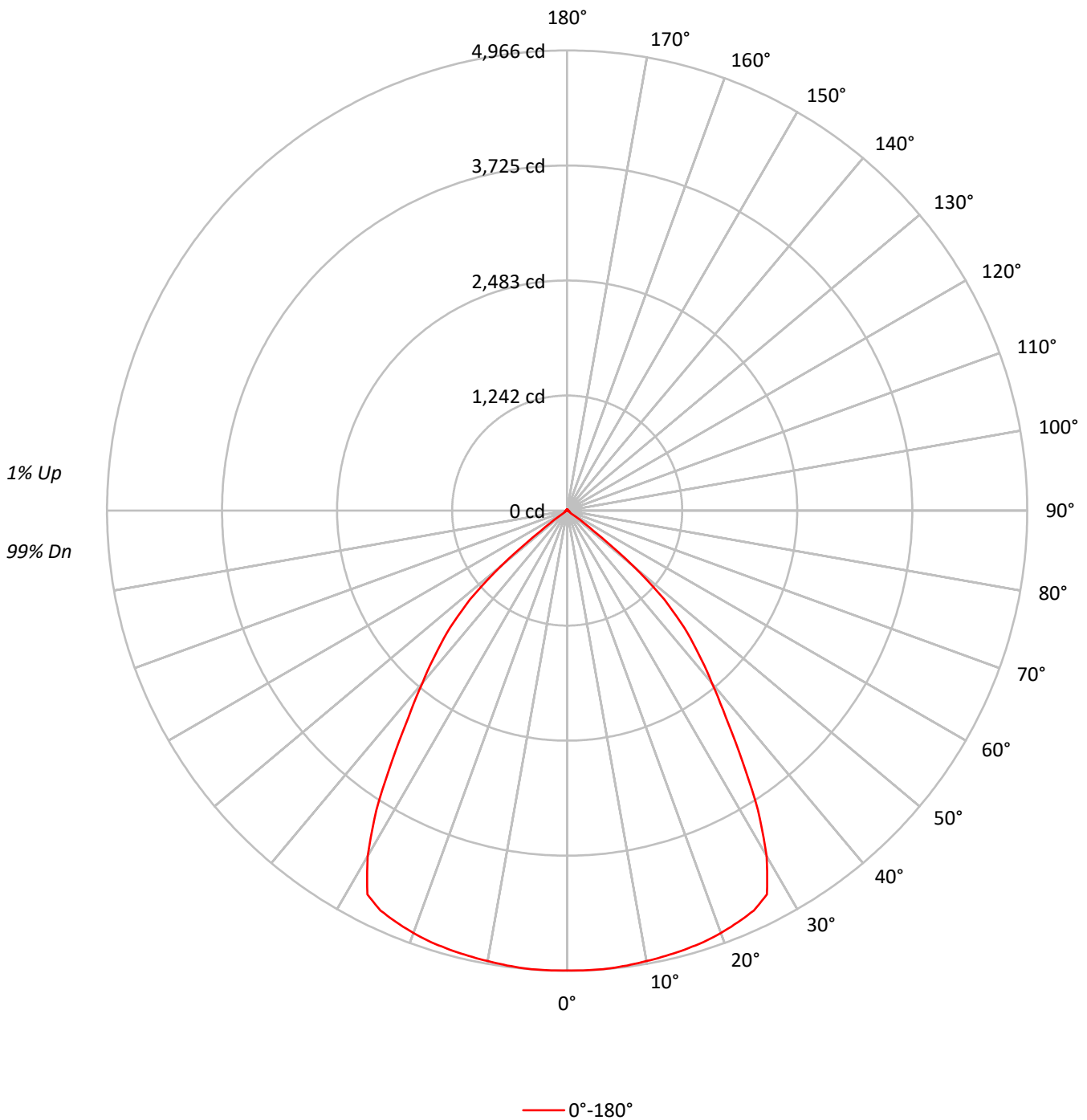
Lumens per Lamp: N/A  
Luminaire Lumens: 7739.3 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.14  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 79.3  
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°	37097
5°	34300
10°	31946
15°	30059
20°	28448
25°	26968
30°	23731
35°	17793
40°	13021
45°	9528
50°	5048
55°	257
60°	164
65°	150
70°	136
75°	105
80°	67
85°	35

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9528 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.9	6.1
10°-20°	1388.1	17.9
20°-30°	2172.1	28.1
30°-40°	2064.6	26.7
40°-50°	1339.5	17.3
50°-60°	200.0	2.6
60°-70°	26.0	0.3
70°-80°	17.5	0.2
80°-90°	6.0	0.1
90°-100°	7.5	0.1
100°-110°	8.0	0.1
110°-120°	7.5	0.1
120°-130°	7.1	0.1
130°-140°	7.4	0.1
140°-150°	6.7	0.1
150°-160°	5.1	0.1
160°-170°	2.5	0.0
170°-180°	0.7	0.0
0°-30°	4033.0	52.1
0°-40°	6097.6	78.8
0°-60°	7637.2	98.7
0°-90°	7686.7	99.3
90°-120°	23.1	0.3
90°-150°	44.3	0.6
90°-180°	53.0	0.7
0°-180°	7739.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4964	
5°	4964	473
15°	4904	1388
25°	4764	2172
35°	3288	2065
45°	1784	1340
55°	47	200
65°	26	26
75°	17	18
85°	5	5
90°	3	2
95°	8	6
105°	8	8
115°	8	8
125°	8	7
135°	9	7
145°	11	7
155°	11	5
165°	8	3
175°	7	1
180°	7	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4963.7
2.5°	4966.3
5°	4963.7
7.5°	4951.8
10°	4936.5
12.5°	4922.2
15°	4904.4
17.5°	4883.2
20°	4851.9
22.5°	4810.4
25°	4763.8
27.5°	4669.8
30°	4304.8
32.5°	3830.6
35°	3287.7
37.5°	2810.9
40°	2431.5
42.5°	2104.5
45°	1784.4
47.5°	1422.0
50°	940.9
52.5°	358.3
55°	47.4
57.5°	32.2
60°	29.6
62.5°	27.9
65°	26.3
67.5°	24.6
70°	22.9
72.5°	19.4
75°	17.0
77.5°	13.5
80°	10.2
82.5°	7.6
85°	5.0
87.5°	2.6
90°	3.4
92.5°	6.8
95°	7.6
97.5°	7.6
100°	7.6
102.5°	7.6
105°	7.6
107.5°	7.6
110°	7.6

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	7.6
115°	7.6
117.5°	7.6
120°	7.6
122.5°	7.6
125°	7.6
127.5°	8.5
130°	8.5
132.5°	9.3
135°	9.3
137.5°	10.2
140°	10.2
142.5°	10.2
145°	11.1
147.5°	11.1
150°	11.1
152.5°	11.1
155°	11.1
157.5°	11.1
160°	10.2
162.5°	10.2
165°	8.5
167.5°	7.6
170°	7.6
172.5°	6.8
175°	6.8
177.5°	6.8
180°	6.8

(END OF REPORT)