

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: P709458

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-CLER(5000K\_L18\_277V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P709458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS-1218-MV-L84050-CLER(5000K\_L18\_277V)  
Description: PRENTALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE  
LIGHT LEVEL - 18,000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

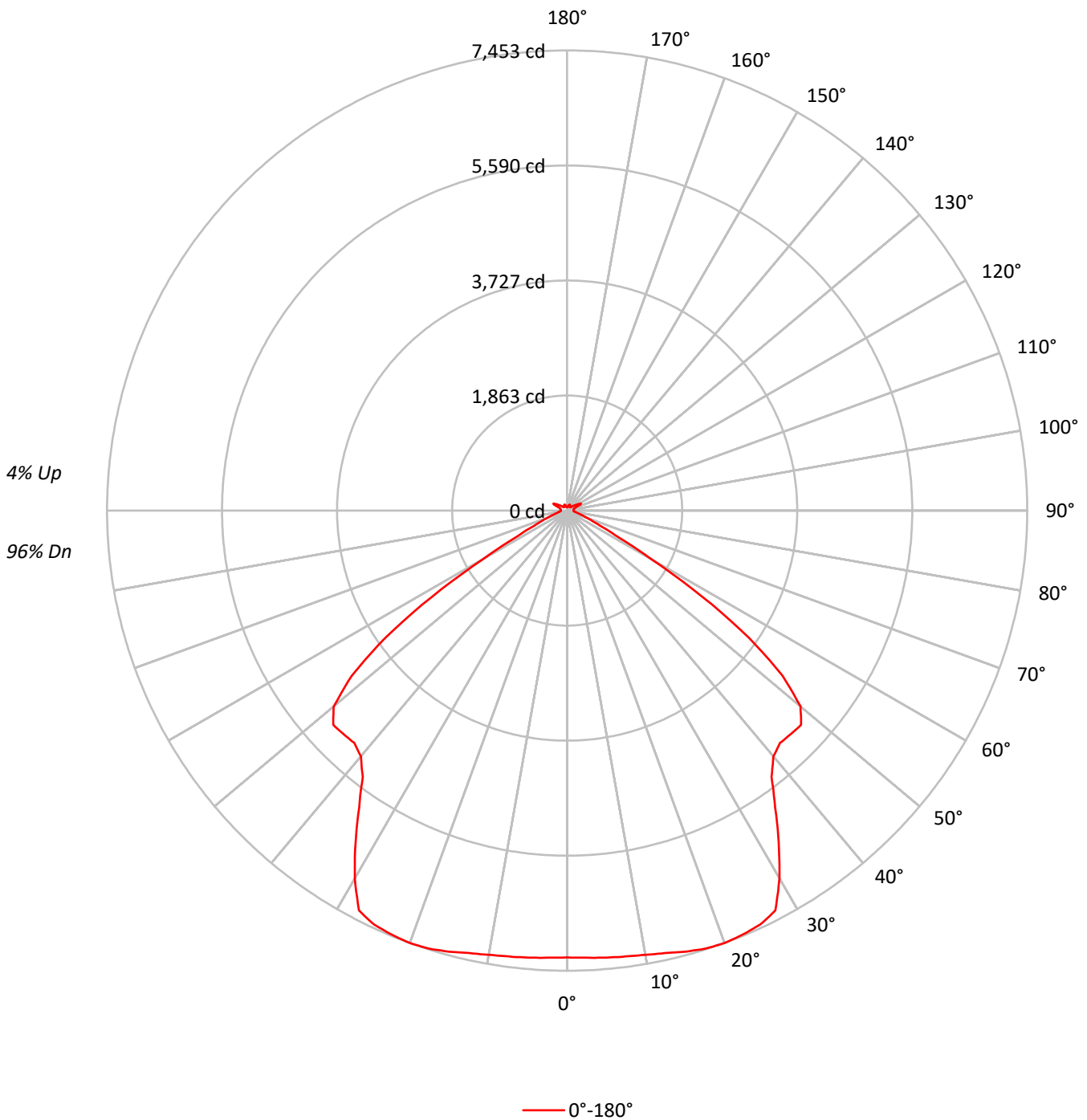
Lumens per Lamp: N/A  
Luminaire Lumens: 18762.7 lumens  
Efficiency: N/A  
Efficacy: 156.0 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 120.3  
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	118	118	118	118	115	115	115	115	109	109	109		103	103	103		98	98	98	96
1	110	106	103	100	107	103	100	98	99	96	94		94	92	90		90	88	87	85
2	102	95	89	84	99	93	87	83	88	84	80		85	81	78		81	78	76	74
3	94	85	78	72	91	83	76	71	79	74	69		76	72	68		73	69	66	64
4	86	76	68	62	84	74	67	62	71	65	60		69	63	59		66	62	58	56
5	80	68	60	54	78	67	59	54	64	58	53		62	56	52		60	55	51	49
6	74	62	54	48	72	61	53	47	59	52	47		57	51	46		55	49	45	43
7	69	56	48	42	67	55	48	42	53	47	42		52	46	41		50	45	40	39
8	64	51	43	38	62	50	43	38	49	42	37		47	41	37		46	40	36	35
9	60	47	39	34	58	46	39	34	45	38	34		44	38	33		42	37	33	31
10	56	44	36	31	55	43	36	31	42	35	31		40	34	30		39	34	30	28

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

	0°
0°	54083
5°	50219
10°	47277
15°	45323
20°	43701
25°	41883
30°	37921
35°	31791
40°	27831
45°	27343
50°	26468
55°	19573
60°	8728
65°	3495
70°	1997
75°	1235
80°	908
85°	780

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 27477 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	694.8	3.7
10°-20°	2097.0	11.2
20°-30°	3384.4	18.0
30°-40°	3704.7	19.7
40°-50°	3954.1	21.1
50°-60°	3077.9	16.4
60°-70°	726.9	3.9
70°-80°	225.4	1.2
80°-90°	124.5	0.7
90°-100°	113.1	0.6
100°-110°	124.7	0.7
110°-120°	207.2	1.1
120°-130°	136.9	0.7
130°-140°	65.3	0.3
140°-150°	51.2	0.3
150°-160°	46.5	0.2
160°-170°	22.5	0.1
170°-180°	5.6	0.0
0°-30°	6176.2	32.9
0°-40°	9880.9	52.7
0°-60°	16912.8	90.1
0°-90°	17989.6	95.9
90°-120°	445.1	2.4
90°-150°	698.5	3.7
90°-180°	773.0	4.1
0°-180°	18762.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7236	
5°	7268	695
15°	7395	2097
25°	7399	3384
35°	5874	3705
45°	5121	3954
55°	3603	3078
65°	613	727
75°	199	225
85°	111	96
90°	100	56
95°	104	85
105°	116	125
115°	236	207
125°	149	137
135°	80	65
145°	80	51
155°	104	47
165°	76	22
175°	56	6
180°	56	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7236.5
2.5°	7249.6
5°	7267.5
7.5°	7284.2
10°	7305.6
12.5°	7341.4
15°	7395.0
17.5°	7440.3
20°	7453.4
22.5°	7433.2
25°	7398.6
27.5°	7302.1
30°	6878.9
32.5°	6378.2
35°	5874.0
37.5°	5436.6
40°	5197.0
42.5°	5105.2
45°	5120.7
47.5°	5138.6
50°	4933.6
52.5°	4397.2
55°	3603.3
57.5°	2599.7
60°	1574.5
62.5°	944.1
65°	612.7
67.5°	445.8
70°	337.3
72.5°	255.0
75°	199.1
77.5°	163.3
80°	138.3
82.5°	121.6
85°	110.9
87.5°	104.9
90°	100.2
92.5°	102.5
95°	103.7
97.5°	104.9
100°	107.2
102.5°	113.2
105°	115.6
107.5°	120.4
110°	138.3

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	178.8
115°	236.0
117.5°	249.2
120°	208.6
122.5°	175.2
125°	149.0
127.5°	125.1
130°	106.1
132.5°	90.5
135°	79.8
137.5°	75.1
140°	74.0
142.5°	76.3
145°	79.8
147.5°	87.0
150°	95.4
152.5°	101.4
155°	103.7
157.5°	101.4
160°	95.4
162.5°	87.0
165°	76.3
167.5°	68.0
170°	62.0
172.5°	58.4
175°	56.0
177.5°	56.0
180°	56.0

(END OF REPORT)