

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: P701301

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-CLER(5000K\_L12\_120V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701301  
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: Pentalux  
Catalog Number: PRLX-UHBS-1218-MV-L84050-CLER(5000K\_L12\_120V)  
Description: PRENTALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE  
LIGHT LEVEL - 12,000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

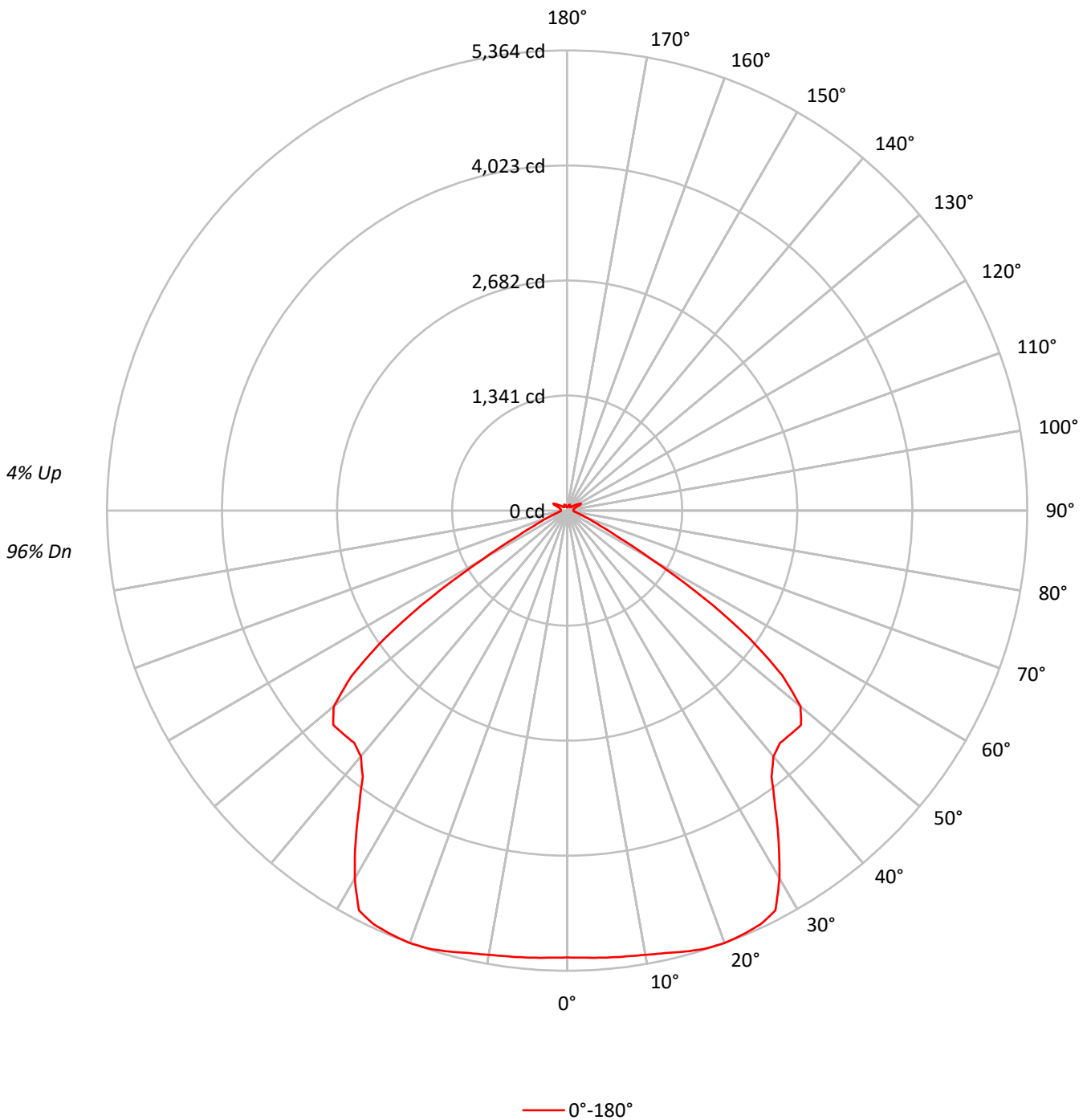
Lumens per Lamp: N/A  
Luminaire Lumens: 13503.6 lumens  
Efficiency: N/A  
Efficacy: 168.8 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 80  
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	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°	38925
5°	36143
10°	34026
15°	32619
20°	31452
25°	30143
30°	27292
35°	22880
40°	20030
45°	19679
50°	19049
55°	14087
60°	6282
65°	2515
70°	1437
75°	889
80°	653
85°	561

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 19775 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.1	3.7
10°-20°	1509.2	11.2
20°-30°	2435.8	18.0
30°-40°	2666.3	19.7
40°-50°	2845.8	21.1
50°-60°	2215.2	16.4
60°-70°	523.1	3.9
70°-80°	162.3	1.2
80°-90°	89.6	0.7
90°-100°	81.4	0.6
100°-110°	89.8	0.7
110°-120°	149.1	1.1
120°-130°	98.6	0.7
130°-140°	47.0	0.3
140°-150°	36.9	0.3
150°-160°	33.4	0.2
160°-170°	16.2	0.1
170°-180°	4.0	0.0
0°-30°	4445.0	32.9
0°-40°	7111.4	52.7
0°-60°	12172.3	90.1
0°-90°	12947.3	95.9
90°-120°	320.3	2.4
90°-150°	502.7	3.7
90°-180°	556.0	4.1
0°-180°	13503.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5208	
5°	5230	500
15°	5322	1509
25°	5325	2436
35°	4228	2666
45°	3685	2846
55°	2593	2215
65°	441	523
75°	143	162
85°	80	69
90°	72	40
95°	75	61
105°	83	90
115°	170	149
125°	107	99
135°	58	47
145°	58	37
155°	75	33
165°	55	16
175°	40	4
180°	40	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5208.2
2.5°	5217.6
5°	5230.5
7.5°	5242.5
10°	5257.9
12.5°	5283.6
15°	5322.2
17.5°	5354.8
20°	5364.3
22.5°	5349.7
25°	5324.8
27.5°	5255.3
30°	4950.8
32.5°	4590.5
35°	4227.6
37.5°	3912.8
40°	3740.3
42.5°	3674.3
45°	3685.4
47.5°	3698.3
50°	3550.7
52.5°	3164.7
55°	2593.4
57.5°	1871.0
60°	1133.3
62.5°	679.4
65°	440.9
67.5°	320.8
70°	242.8
72.5°	183.6
75°	143.3
77.5°	117.5
80°	99.5
82.5°	87.5
85°	79.8
87.5°	75.5
90°	72.1
92.5°	73.8
95°	74.6
97.5°	75.5
100°	77.2
102.5°	81.5
105°	83.2
107.5°	86.6
110°	99.5

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	128.7
115°	169.9
117.5°	179.3
120°	150.1
122.5°	126.1
125°	107.2
127.5°	90.1
130°	76.4
132.5°	65.2
135°	57.5
137.5°	54.0
140°	53.2
142.5°	54.9
145°	57.5
147.5°	62.6
150°	68.6
152.5°	72.9
155°	74.6
157.5°	72.9
160°	68.6
162.5°	62.6
165°	54.9
167.5°	48.9
170°	44.6
172.5°	42.0
175°	40.3
177.5°	40.3
180°	40.3

(END OF REPORT)