

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: P701286

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-CLER(4000K\_L12\_120V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701286  
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(4000K\_L12\_120V)  
Description: PRENTALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE  
LIGHT LEVEL - 12,000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

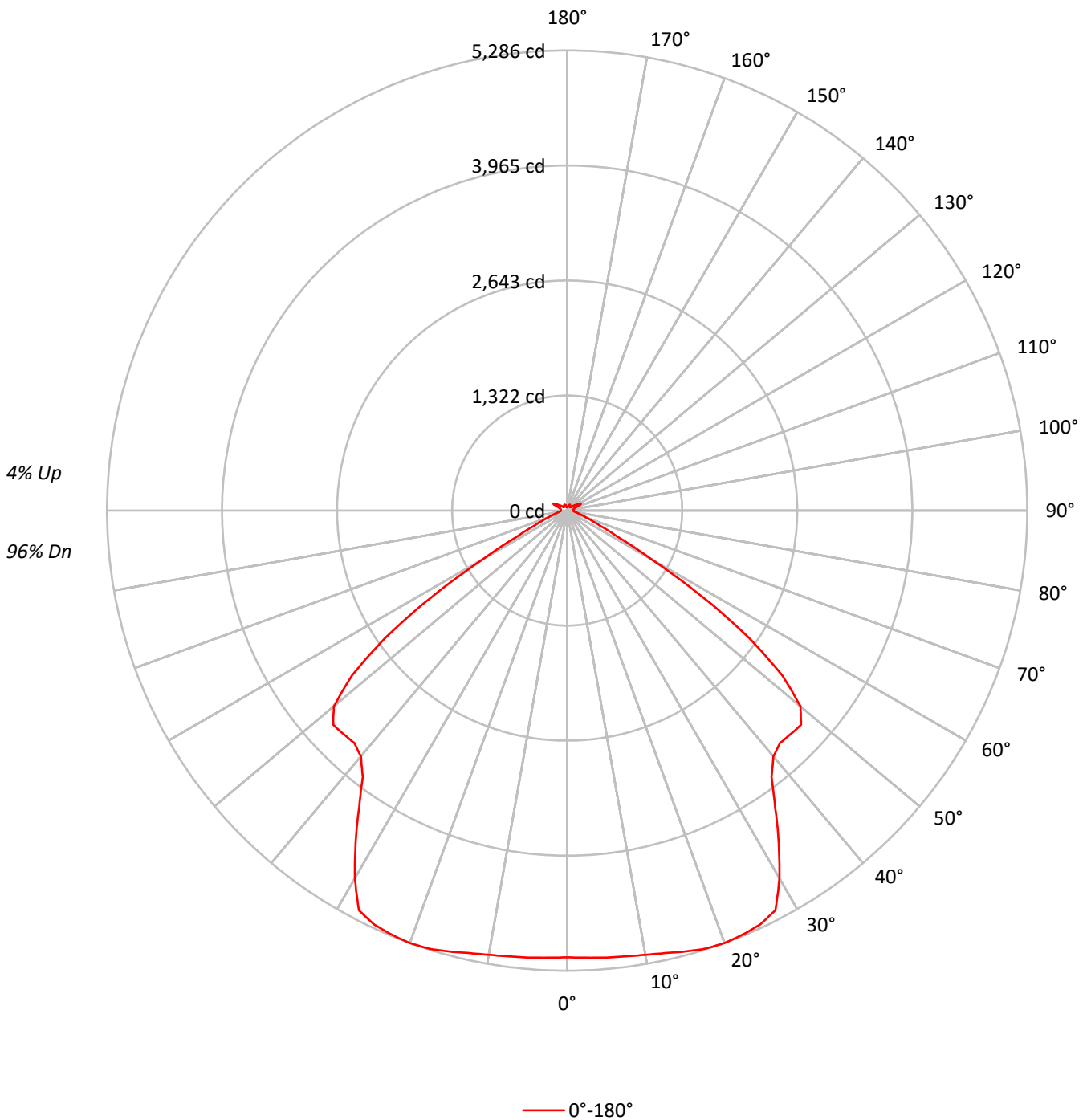
Lumens per Lamp: N/A  
Luminaire Lumens: 13305.7 lumens  
Efficiency: N/A  
Efficacy: 165.7 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 80.3  
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°	38354
5°	35613
10°	33527
15°	32141
20°	30991
25°	29702
30°	26892
35°	22545
40°	19737
45°	19390
50°	18770
55°	13880
60°	6190
65°	2478
70°	1416
75°	876
80°	644
85°	553

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 19486 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.7	3.7
10°-20°	1487.1	11.2
20°-30°	2400.1	18.0
30°-40°	2627.2	19.7
40°-50°	2804.1	21.1
50°-60°	2182.7	16.4
60°-70°	515.5	3.9
70°-80°	159.9	1.2
80°-90°	88.3	0.7
90°-100°	80.2	0.6
100°-110°	88.5	0.7
110°-120°	146.9	1.1
120°-130°	97.1	0.7
130°-140°	46.3	0.3
140°-150°	36.3	0.3
150°-160°	33.0	0.2
160°-170°	15.9	0.1
170°-180°	3.9	0.0
0°-30°	4379.9	32.9
0°-40°	7007.1	52.7
0°-60°	11993.9	90.1
0°-90°	12757.5	95.9
90°-120°	315.7	2.4
90°-150°	495.4	3.7
90°-180°	548.0	4.1
0°-180°	13305.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5132	
5°	5154	493
15°	5244	1487
25°	5247	2400
35°	4166	2627
45°	3631	2804
55°	2555	2183
65°	434	515
75°	141	160
85°	79	68
90°	71	40
95°	74	61
105°	82	88
115°	167	147
125°	106	97
135°	57	46
145°	57	36
155°	74	33
165°	54	16
175°	40	4
180°	40	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5131.8
2.5°	5141.1
5°	5153.8
7.5°	5165.6
10°	5180.8
12.5°	5206.2
15°	5244.2
17.5°	5276.4
20°	5285.6
22.5°	5271.3
25°	5246.8
27.5°	5178.3
30°	4878.2
32.5°	4523.2
35°	4165.6
37.5°	3855.4
40°	3685.5
42.5°	3620.4
45°	3631.4
47.5°	3644.1
50°	3498.7
52.5°	3118.3
55°	2555.3
57.5°	1843.6
60°	1116.6
62.5°	669.5
65°	434.5
67.5°	316.1
70°	239.2
72.5°	180.9
75°	141.2
77.5°	115.8
80°	98.1
82.5°	86.2
85°	78.6
87.5°	74.4
90°	71.0
92.5°	72.7
95°	73.5
97.5°	74.4
100°	76.1
102.5°	80.3
105°	82.0
107.5°	85.4
110°	98.1

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	126.8
115°	167.4
117.5°	176.7
120°	147.9
122.5°	124.3
125°	105.7
127.5°	88.8
130°	75.2
132.5°	64.2
135°	56.6
137.5°	53.3
140°	52.4
142.5°	54.1
145°	56.6
147.5°	61.7
150°	67.6
152.5°	71.9
155°	73.5
157.5°	71.9
160°	67.6
162.5°	61.7
165°	54.1
167.5°	48.2
170°	44.0
172.5°	41.4
175°	39.7
177.5°	39.7
180°	39.7

(END OF REPORT)