

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: P701288

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-CLER(4000K\_L18\_120V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701288  
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: Prenalux  
Catalog Number: PRLX-UHBS-1218-MV-L84050-CLER(4000K\_L18\_120V)  
Description: PRENATALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE  
LIGHT LEVEL - 18,000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

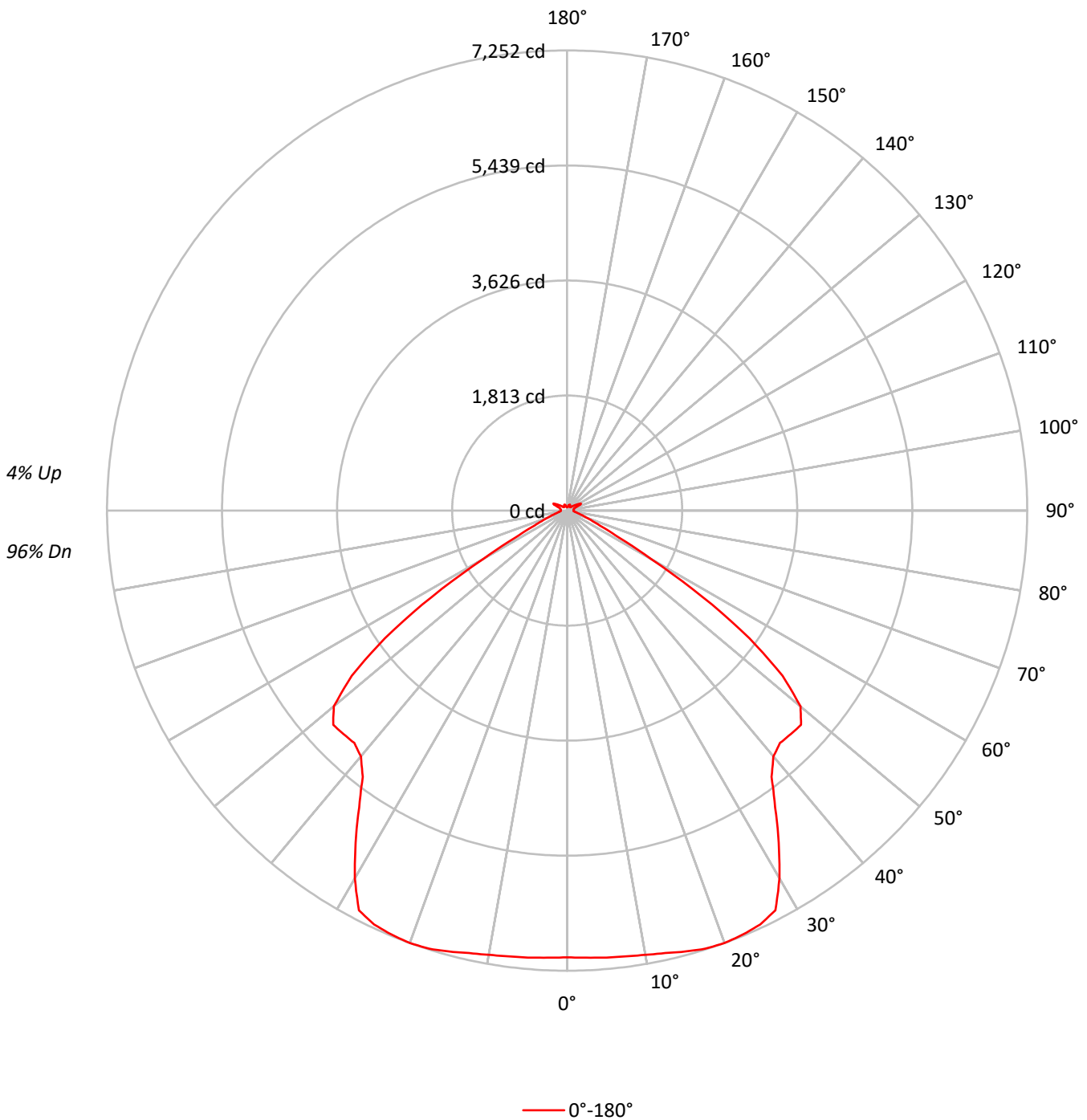
Lumens per Lamp: N/A  
Luminaire Lumens: 18254.7 lumens  
Efficiency: N/A  
Efficacy: 155.0 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 117.8  
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°	52619
5°	48860
10°	45997
15°	44096
20°	42518
25°	40749
30°	36894
35°	30930
40°	27077
45°	26603
50°	25752
55°	19044
60°	8493
65°	3400
70°	1943
75°	1202
80°	883
85°	759

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 26733 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	676.0	3.7
10°-20°	2040.2	11.2
20°-30°	3292.8	18.0
30°-40°	3604.4	19.7
40°-50°	3847.0	21.1
50°-60°	2994.5	16.4
60°-70°	707.2	3.9
70°-80°	219.4	1.2
80°-90°	121.1	0.7
90°-100°	110.1	0.6
100°-110°	121.4	0.7
110°-120°	201.6	1.1
120°-130°	133.3	0.7
130°-140°	63.5	0.3
140°-150°	49.8	0.3
150°-160°	45.2	0.2
160°-170°	21.9	0.1
170°-180°	5.4	0.0
0°-30°	6009.0	32.9
0°-40°	9613.4	52.7
0°-60°	16454.9	90.1
0°-90°	17502.6	95.9
90°-120°	433.0	2.4
90°-150°	679.6	3.7
90°-180°	752.0	4.1
0°-180°	18254.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7041	
5°	7071	676
15°	7195	2040
25°	7198	3293
35°	5715	3604
45°	4982	3847
55°	3506	2995
65°	596	707
75°	194	219
85°	108	94
90°	97	54
95°	101	83
105°	112	121
115°	230	202
125°	145	133
135°	78	64
145°	78	50
155°	101	45
165°	74	22
175°	54	5
180°	54	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7040.6
2.5°	7053.3
5°	7070.7
7.5°	7086.9
10°	7107.8
12.5°	7142.6
15°	7194.8
17.5°	7238.9
20°	7251.6
22.5°	7231.9
25°	7198.3
27.5°	7104.3
30°	6692.6
32.5°	6205.6
35°	5715.0
37.5°	5289.4
40°	5056.3
42.5°	4967.0
45°	4982.1
47.5°	4999.5
50°	4800.0
52.5°	4278.1
55°	3505.8
57.5°	2529.3
60°	1532.0
62.5°	918.5
65°	596.1
67.5°	433.7
70°	328.2
72.5°	248.2
75°	193.7
77.5°	158.9
80°	134.5
82.5°	118.3
85°	107.9
87.5°	102.1
90°	97.4
92.5°	99.7
95°	100.9
97.5°	102.1
100°	104.4
102.5°	110.2
105°	112.5
107.5°	117.1
110°	134.5

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	174.0
115°	229.6
117.5°	242.4
120°	202.9
122.5°	170.5
125°	145.0
127.5°	121.8
130°	103.2
132.5°	88.1
135°	77.7
137.5°	73.1
140°	71.9
142.5°	74.2
145°	77.7
147.5°	84.7
150°	92.8
152.5°	98.6
155°	100.9
157.5°	98.6
160°	92.8
162.5°	84.7
165°	74.2
167.5°	66.1
170°	60.3
172.5°	56.8
175°	54.5
177.5°	54.5
180°	54.5

(END OF REPORT)