

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: P701302

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-CLER(5000K\_L15\_120V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701302  
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\_L15\_120V)  
Description: PRENTALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE  
LIGHT LEVEL - 15,0000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

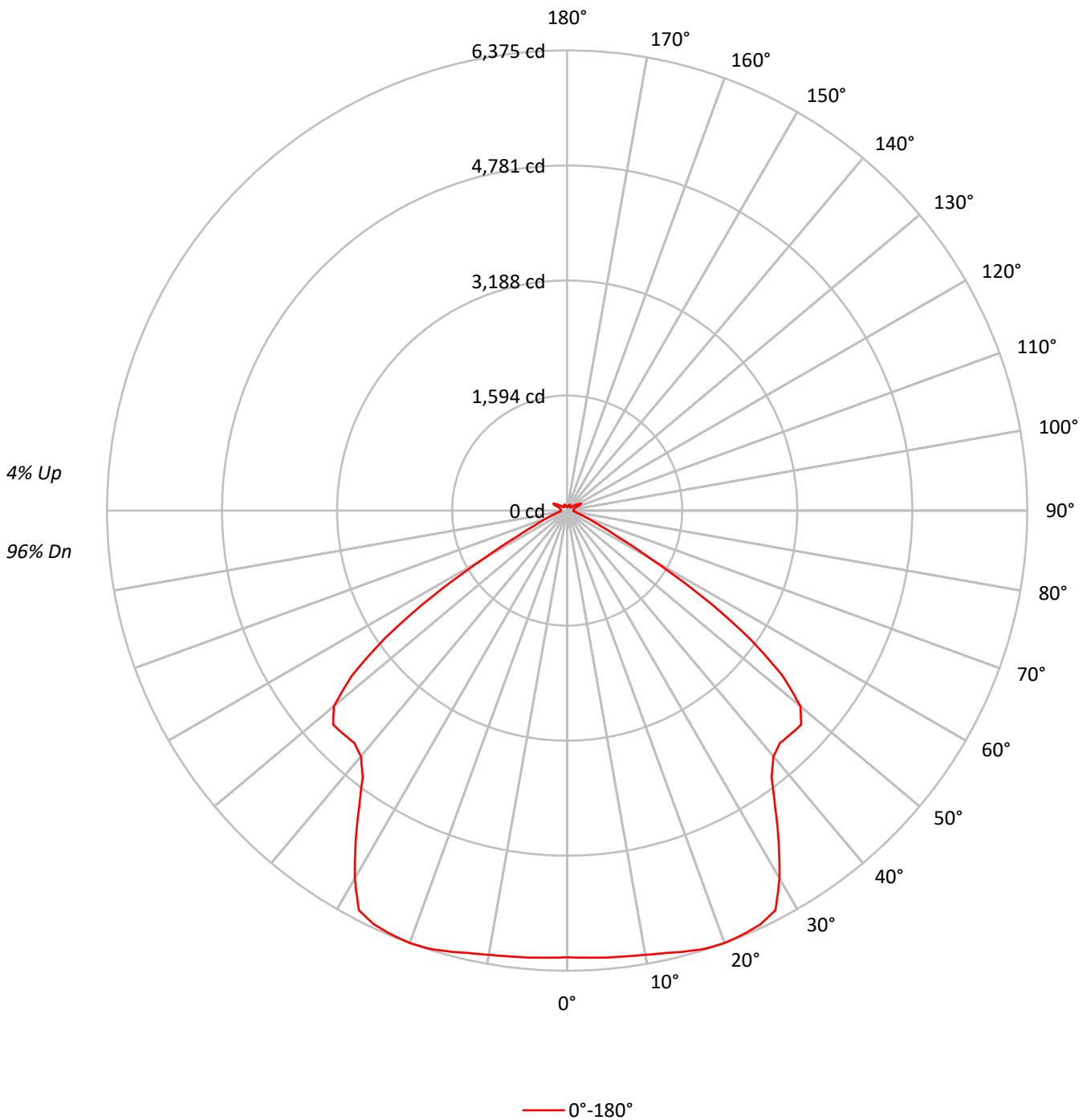
Lumens per Lamp: N/A  
Luminaire Lumens: 16047.0 lumens  
Efficiency: N/A  
Efficacy: 162.6 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 98.7  
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°	46256
5°	42951
10°	40435
15°	38763
20°	37376
25°	35821
30°	32432
35°	27189
40°	23803
45°	23385
50°	22637
55°	16740
60°	7465
65°	2989
70°	1708
75°	1056
80°	777
85°	667

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 23500 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.2	3.7
10°-20°	1793.5	11.2
20°-30°	2894.5	18.0
30°-40°	3168.5	19.7
40°-50°	3381.7	21.1
50°-60°	2632.4	16.4
60°-70°	621.7	3.9
70°-80°	192.8	1.2
80°-90°	106.5	0.7
90°-100°	96.8	0.6
100°-110°	106.7	0.7
110°-120°	177.2	1.1
120°-130°	117.1	0.7
130°-140°	55.8	0.3
140°-150°	43.8	0.3
150°-160°	39.8	0.2
160°-170°	19.2	0.1
170°-180°	4.8	0.0
0°-30°	5282.2	32.9
0°-40°	8450.7	52.7
0°-60°	14464.8	90.1
0°-90°	15385.8	95.9
90°-120°	380.7	2.4
90°-150°	597.4	3.7
90°-180°	661.0	4.1
0°-180°	16047.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6189	
5°	6216	594
15°	6325	1793
25°	6328	2895
35°	5024	3168
45°	4380	3382
55°	3082	2632
65°	524	622
75°	170	193
85°	95	82
90°	86	48
95°	89	73
105°	99	107
115°	202	177
125°	127	117
135°	68	56
145°	68	44
155°	89	40
165°	65	19
175°	48	5
180°	48	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6189.1
2.5°	6200.3
5°	6215.6
7.5°	6229.8
10°	6248.2
12.5°	6278.8
15°	6324.6
17.5°	6363.4
20°	6374.6
22.5°	6357.3
25°	6327.7
27.5°	6245.1
30°	5883.2
32.5°	5455.1
35°	5023.8
37.5°	4649.7
40°	4444.8
42.5°	4366.3
45°	4379.5
47.5°	4394.8
50°	4219.5
52.5°	3760.7
55°	3081.8
57.5°	2223.4
60°	1346.7
62.5°	807.4
65°	524.0
67.5°	381.3
70°	288.5
72.5°	218.2
75°	170.2
77.5°	139.7
80°	118.3
82.5°	104.0
85°	94.8
87.5°	89.7
90°	85.6
92.5°	87.7
95°	88.7
97.5°	89.7
100°	91.8
102.5°	96.8
105°	98.9
107.5°	103.0
110°	118.3

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	152.9
115°	201.9
117.5°	213.1
120°	178.4
122.5°	149.9
125°	127.4
127.5°	107.0
130°	90.7
132.5°	77.5
135°	68.3
137.5°	64.2
140°	63.2
142.5°	65.2
145°	68.3
147.5°	74.4
150°	81.6
152.5°	86.7
155°	88.7
157.5°	86.7
160°	81.6
162.5°	74.4
165°	65.2
167.5°	58.1
170°	53.0
172.5°	50.0
175°	47.9
177.5°	47.9
180°	47.9

(END OF REPORT)