

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: P701287

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-CLER(4000K\_L15\_120V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701287  
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\_L15\_120V)  
Description: PRENTALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE  
LIGHT LEVEL - 15,0000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

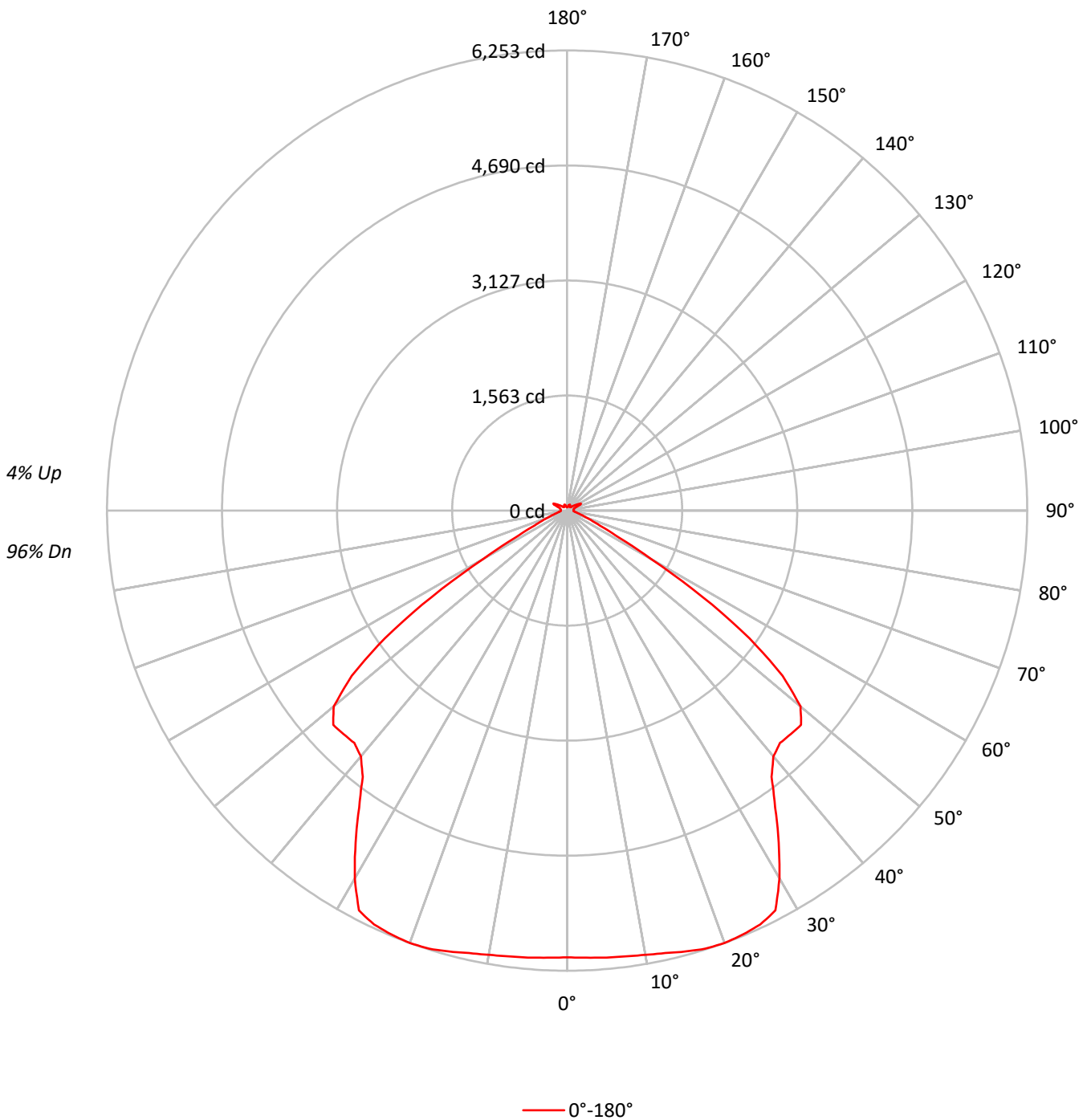
Lumens per Lamp: N/A  
Luminaire Lumens: 15740.8 lumens  
Efficiency: N/A  
Efficacy: 159.8 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 98.5  
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°	45373
5°	42131
10°	39663
15°	38024
20°	36663
25°	35137
30°	31814
35°	26671
40°	23349
45°	22939
50°	22206
55°	16421
60°	7323
65°	2932
70°	1675
75°	1036
80°	762
85°	654

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 23052 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	582.9	3.7
10°-20°	1759.2	11.2
20°-30°	2839.3	18.0
30°-40°	3108.0	19.7
40°-50°	3317.2	21.1
50°-60°	2582.2	16.4
60°-70°	609.8	3.9
70°-80°	189.1	1.2
80°-90°	104.4	0.7
90°-100°	94.9	0.6
100°-110°	104.7	0.7
110°-120°	173.8	1.1
120°-130°	114.9	0.7
130°-140°	54.8	0.3
140°-150°	43.0	0.3
150°-160°	39.0	0.2
160°-170°	18.9	0.1
170°-180°	4.7	0.0
0°-30°	5181.5	32.9
0°-40°	8289.5	52.7
0°-60°	14188.9	90.1
0°-90°	15092.3	95.9
90°-120°	373.4	2.4
90°-150°	586.0	3.7
90°-180°	649.0	4.1
0°-180°	15740.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6071	
5°	6097	583
15°	6204	1759
25°	6207	2839
35°	4928	3108
45°	4296	3317
55°	3023	2582
65°	514	610
75°	167	189
85°	93	81
90°	84	47
95°	87	72
105°	97	105
115°	198	174
125°	125	115
135°	67	55
145°	67	43
155°	87	39
165°	64	19
175°	47	5
180°	47	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6071
2.5°	6082
5°	6097
7.5°	6111
10°	6129
12.5°	6159
15°	6204
17.5°	6242
20°	6253
22.5°	6236
25°	6207
27.5°	6126
30°	5771
32.5°	5351
35°	4928
37.5°	4561
40°	4360
42.5°	4283
45°	4296
47.5°	4311
50°	4139
52.5°	3689
55°	3023
57.5°	2181
60°	1321
62.5°	792
65°	514
67.5°	374
70°	283
72.5°	214
75°	167
77.5°	137
80°	116
82.5°	102
85°	93
87.5°	88
90°	84
92.5°	86
95°	87
97.5°	88
100°	90
102.5°	95
105°	97
107.5°	101
110°	116

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	150
115°	198
117.5°	209
120°	175
122.5°	147
125°	125
127.5°	105
130°	89
132.5°	76
135°	67
137.5°	63
140°	62
142.5°	64
145°	67
147.5°	73
150°	80
152.5°	85
155°	87
157.5°	85
160°	80
162.5°	73
165°	64
167.5°	57
170°	52
172.5°	49
175°	47
177.5°	47
180°	47

(END OF REPORT)