

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: P709471

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(4000K\_L12\_347V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P709471  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-UHBS-1218-MV-L84050-TRWH(4000K\_L12\_347V)  
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE  
LIGHT LEVEL - 12,0000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

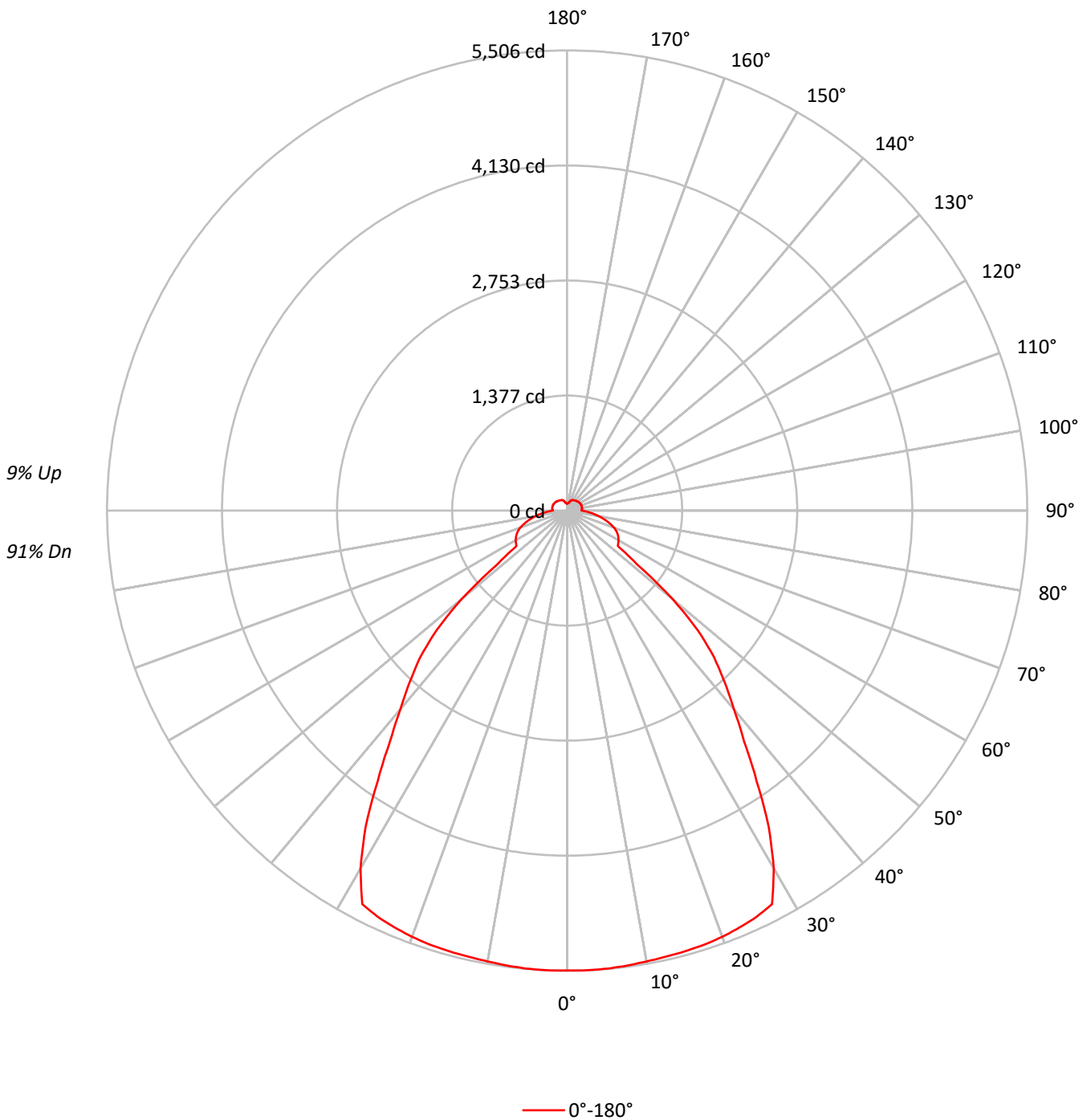
Lumens per Lamp: N/A  
Luminaire Lumens: 12222.8 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 79.6  
Input Voltage (V): 347  
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	117	117	117	117	113	113	113	113	106	106	106		100	100	100		94	94	94	91
1	108	104	100	97	104	101	97	94	95	92	90		90	88	85		85	83	82	79
2	100	93	87	82	97	90	85	80	85	81	77		81	77	74		77	74	71	69
3	92	83	76	71	89	81	75	69	77	72	67		73	69	65		70	66	63	61
4	86	75	68	62	83	73	66	61	70	64	59		67	62	58		64	59	56	54
5	80	68	60	55	77	67	59	54	64	58	53		61	56	51		58	54	50	48
6	74	62	55	49	72	61	54	48	59	52	47		56	51	46		54	49	45	43
7	69	57	49	44	67	56	49	44	54	47	43		52	46	42		50	45	41	39
8	65	53	45	40	63	52	44	39	50	43	39		48	42	38		46	41	37	36
9	61	49	41	36	59	48	41	36	46	40	35		45	39	35		43	38	34	32
10	57	45	38	33	56	44	38	33	43	37	32		42	36	32		40	35	31	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	41126
5°	38019
10°	35444
15°	33456
20°	31821
25°	30361
30°	27265
35°	21404
40°	16628
45°	13282
50°	8812
55°	4021
60°	3939
65°	3802
70°	3533
75°	3069
80°	2518
85°	1932

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13282 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.3	4.3
10°-20°	1546.1	12.6
20°-30°	2455.0	20.1
30°-40°	2481.0	20.3
40°-50°	1877.4	15.4
50°-60°	821.7	6.7
60°-70°	656.3	5.4
70°-80°	520.4	4.3
80°-90°	300.1	2.5
90°-100°	193.3	1.6
100°-110°	192.4	1.6
110°-120°	178.4	1.5
120°-130°	154.4	1.3
130°-140°	125.0	1.0
140°-150°	94.0	0.8
150°-160°	63.5	0.5
160°-170°	31.1	0.3
170°-180°	8.5	0.1
0°-30°	4525.4	37.0
0°-40°	7006.3	57.3
0°-60°	9705.5	79.4
0°-90°	11182.3	91.5
90°-120°	564.1	4.6
90°-150°	937.5	7.7
90°-180°	1041.0	8.5
0°-180°	12222.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5503	
5°	5502	524
15°	5459	1546
25°	5363	2455
35°	3955	2481
45°	2488	1877
55°	740	822
65°	666	656
75°	495	520
85°	275	247
90°	169	101
95°	178	146
105°	183	192
115°	180	178
125°	173	154
135°	161	125
145°	149	94
155°	138	64
165°	106	31
175°	86	8
180°	83	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5502.7
2.5°	5506.1
5°	5501.9
7.5°	5491.1
10°	5477.0
12.5°	5467.9
15°	5458.7
17.5°	5447.2
20°	5427.2
22.5°	5398.2
25°	5363.3
27.5°	5309.4
30°	4945.8
32.5°	4486.9
35°	3954.8
37.5°	3479.3
40°	3105.0
42.5°	2791.2
45°	2487.5
47.5°	2121.4
50°	1642.5
52.5°	1053.3
55°	740.3
57.5°	725.4
60°	710.5
62.5°	690.6
65°	666.5
67.5°	636.6
70°	596.8
72.5°	547.0
75°	494.7
77.5°	439.1
80°	383.4
82.5°	329.5
85°	274.7
87.5°	220.7
90°	169.3
92.5°	175.2
95°	178.4
97.5°	180.1
100°	181.0
102.5°	181.7
105°	182.6
107.5°	181.7
110°	181.7

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	181.0
115°	180.1
117.5°	178.4
120°	176.7
122.5°	174.3
125°	172.6
127.5°	169.3
130°	166.8
132.5°	164.4
135°	161.0
137.5°	158.6
140°	155.2
142.5°	152.7
145°	149.4
147.5°	146.1
150°	143.6
152.5°	141.1
155°	137.8
157.5°	132.7
160°	127.0
162.5°	118.7
165°	105.5
167.5°	97.1
170°	93.0
172.5°	89.6
175°	86.3
177.5°	84.6
180°	83.0

(END OF REPORT)