

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: P709447

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(4000K\_L12\_277V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P709447  
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\_277V)  
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**

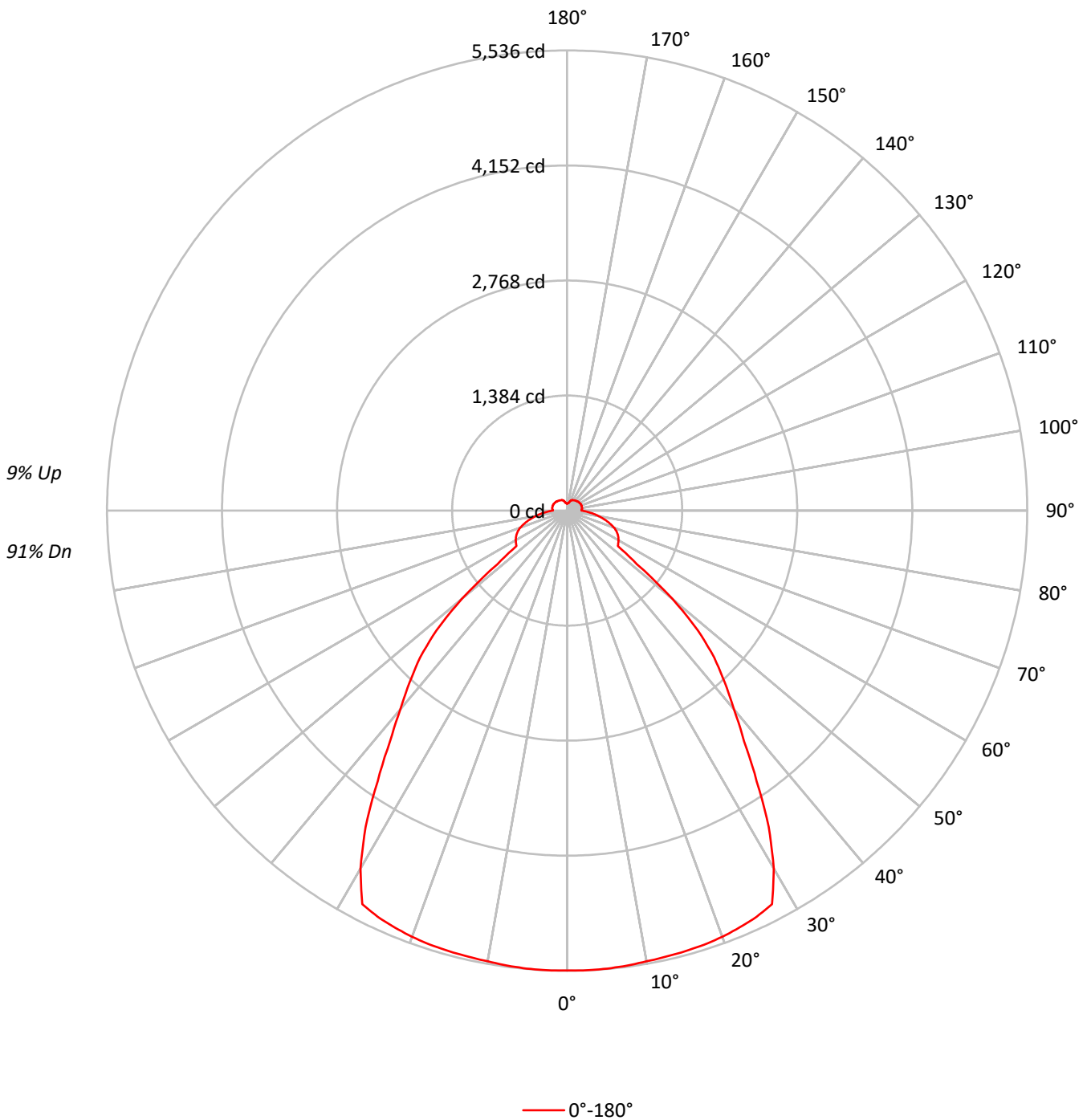
Lumens per Lamp: N/A  
Luminaire Lumens: 12289.2 lumens  
Efficiency: N/A  
Efficacy: 154.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 79.6  
Input Voltage (V): 277  
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°	41349
5°	38226
10°	35636
15°	33638
20°	31994
25°	30526
30°	27413
35°	21520
40°	16718
45°	13355
50°	8860
55°	4044
60°	3960
65°	3822
70°	3552
75°	3085
80°	2531
85°	1942

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13355 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.2	4.3
10°-20°	1554.5	12.6
20°-30°	2468.3	20.1
30°-40°	2494.5	20.3
40°-50°	1887.6	15.4
50°-60°	826.2	6.7
60°-70°	659.8	5.4
70°-80°	523.3	4.3
80°-90°	301.7	2.5
90°-100°	194.4	1.6
100°-110°	193.4	1.6
110°-120°	179.3	1.5
120°-130°	155.2	1.3
130°-140°	125.7	1.0
140°-150°	94.5	0.8
150°-160°	63.9	0.5
160°-170°	31.3	0.3
170°-180°	8.5	0.1
0°-30°	4549.9	37.0
0°-40°	7044.4	57.3
0°-60°	9758.2	79.4
0°-90°	11243.0	91.5
90°-120°	567.1	4.6
90°-150°	942.6	7.7
90°-180°	1046.0	8.5
0°-180°	12289.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5533	
5°	5532	527
15°	5488	1554
25°	5392	2468
35°	3976	2494
45°	2501	1888
55°	744	826
65°	670	660
75°	497	523
85°	276	248
90°	170	101
95°	179	147
105°	184	193
115°	181	179
125°	174	155
135°	162	126
145°	150	95
155°	138	64
165°	106	31
175°	87	9
180°	83	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5532.6
2.5°	5536.0
5°	5531.8
7.5°	5521.0
10°	5506.7
12.5°	5497.6
15°	5488.4
17.5°	5476.7
20°	5456.7
22.5°	5427.5
25°	5392.4
27.5°	5338.2
30°	4972.7
32.5°	4511.2
35°	3976.3
37.5°	3498.2
40°	3121.9
42.5°	2806.3
45°	2501.0
47.5°	2133.0
50°	1651.4
52.5°	1059.0
55°	744.4
57.5°	729.3
60°	714.3
62.5°	694.3
65°	670.1
67.5°	640.0
70°	600.0
72.5°	550.0
75°	497.4
77.5°	441.5
80°	385.5
82.5°	331.3
85°	276.2
87.5°	221.9
90°	170.2
92.5°	176.1
95°	179.4
97.5°	181.1
100°	181.9
102.5°	182.7
105°	183.6
107.5°	182.7
110°	182.7

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	181.9
115°	181.1
117.5°	179.4
120°	177.7
122.5°	175.2
125°	173.6
127.5°	170.2
130°	167.7
132.5°	165.3
135°	161.9
137.5°	159.4
140°	156.1
142.5°	153.5
145°	150.3
147.5°	146.9
150°	144.3
152.5°	141.9
155°	138.5
157.5°	133.5
160°	127.6
162.5°	119.4
165°	106.0
167.5°	97.6
170°	93.5
172.5°	90.1
175°	86.8
177.5°	85.1
180°	83.4

(END OF REPORT)