

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: P709460

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(5000K\_L15\_277V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P709460  
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(5000K\_L15\_277V)  
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE  
LIGHT LEVEL - 15,0000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

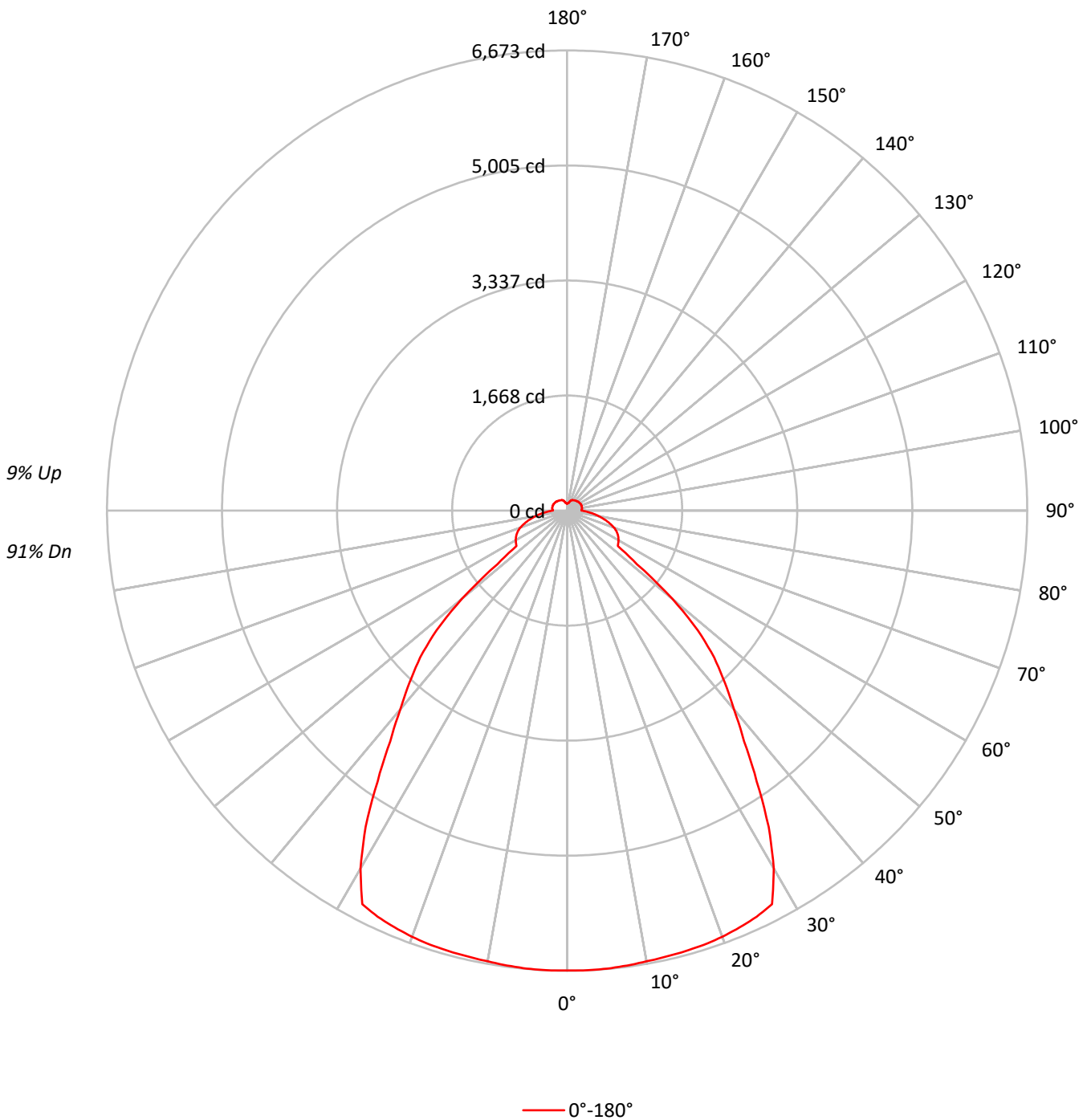
Lumens per Lamp: N/A  
Luminaire Lumens: 14812.5 lumens  
Efficiency: N/A  
Efficacy: 154.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 95.9  
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°	49839
5°	46074
10°	42953
15°	40545
20°	38563
25°	36794
30°	33041
35°	25939
40°	20150
45°	16096
50°	10679
55°	4874
60°	4772
65°	4607
70°	4282
75°	3719
80°	3051
85°	2341

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16096 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	635.4	4.3
10°-20°	1873.6	12.6
20°-30°	2975.1	20.1
30°-40°	3006.6	20.3
40°-50°	2275.2	15.4
50°-60°	995.8	6.7
60°-70°	795.3	5.4
70°-80°	630.7	4.3
80°-90°	363.7	2.5
90°-100°	234.3	1.6
100°-110°	233.2	1.6
110°-120°	216.2	1.5
120°-130°	187.1	1.3
130°-140°	151.5	1.0
140°-150°	113.9	0.8
150°-160°	77.0	0.5
160°-170°	37.7	0.3
170°-180°	10.3	0.1
0°-30°	5484.2	37.0
0°-40°	8490.8	57.3
0°-60°	11761.8	79.4
0°-90°	13551.4	91.5
90°-120°	683.6	4.6
90°-150°	1136.1	7.7
90°-180°	1261.0	8.5
0°-180°	14812.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6669	
5°	6668	635
15°	6615	1874
25°	6500	2975
35°	4793	3007
45°	3014	2275
55°	897	996
65°	808	795
75°	600	631
85°	333	299
90°	205	122
95°	216	177
105°	221	233
115°	218	216
125°	209	187
135°	195	151
145°	181	114
155°	167	77
165°	128	38
175°	105	10
180°	100	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6668.6
2.5°	6672.6
5°	6667.6
7.5°	6654.6
10°	6637.4
12.5°	6626.4
15°	6615.3
17.5°	6601.2
20°	6577.1
22.5°	6541.9
25°	6499.7
27.5°	6434.3
30°	5993.7
32.5°	5437.5
35°	4792.8
37.5°	4216.4
40°	3762.7
42.5°	3382.6
45°	3014.5
47.5°	2570.9
50°	1990.5
52.5°	1276.4
55°	897.2
57.5°	879.1
60°	860.9
62.5°	836.9
65°	807.7
67.5°	771.5
70°	723.2
72.5°	662.8
75°	599.5
77.5°	532.1
80°	464.7
82.5°	399.3
85°	332.9
87.5°	267.6
90°	205.2
92.5°	212.2
95°	216.3
97.5°	218.2
100°	219.2
102.5°	220.3
105°	221.3
107.5°	220.3
110°	220.3

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	219.2
115°	218.2
117.5°	216.3
120°	214.2
122.5°	211.2
125°	209.2
127.5°	205.2
130°	202.2
132.5°	199.2
135°	195.2
137.5°	192.1
140°	188.1
142.5°	185.1
145°	181.0
147.5°	177.0
150°	174.0
152.5°	171.0
155°	166.9
157.5°	160.9
160°	153.9
162.5°	143.9
165°	127.8
167.5°	117.7
170°	112.7
172.5°	108.6
175°	104.6
177.5°	102.6
180°	100.5

(END OF REPORT)