

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P867255

Luminaire Tested: PRLX-2004-L-930-133L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867255  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-L-930-133L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

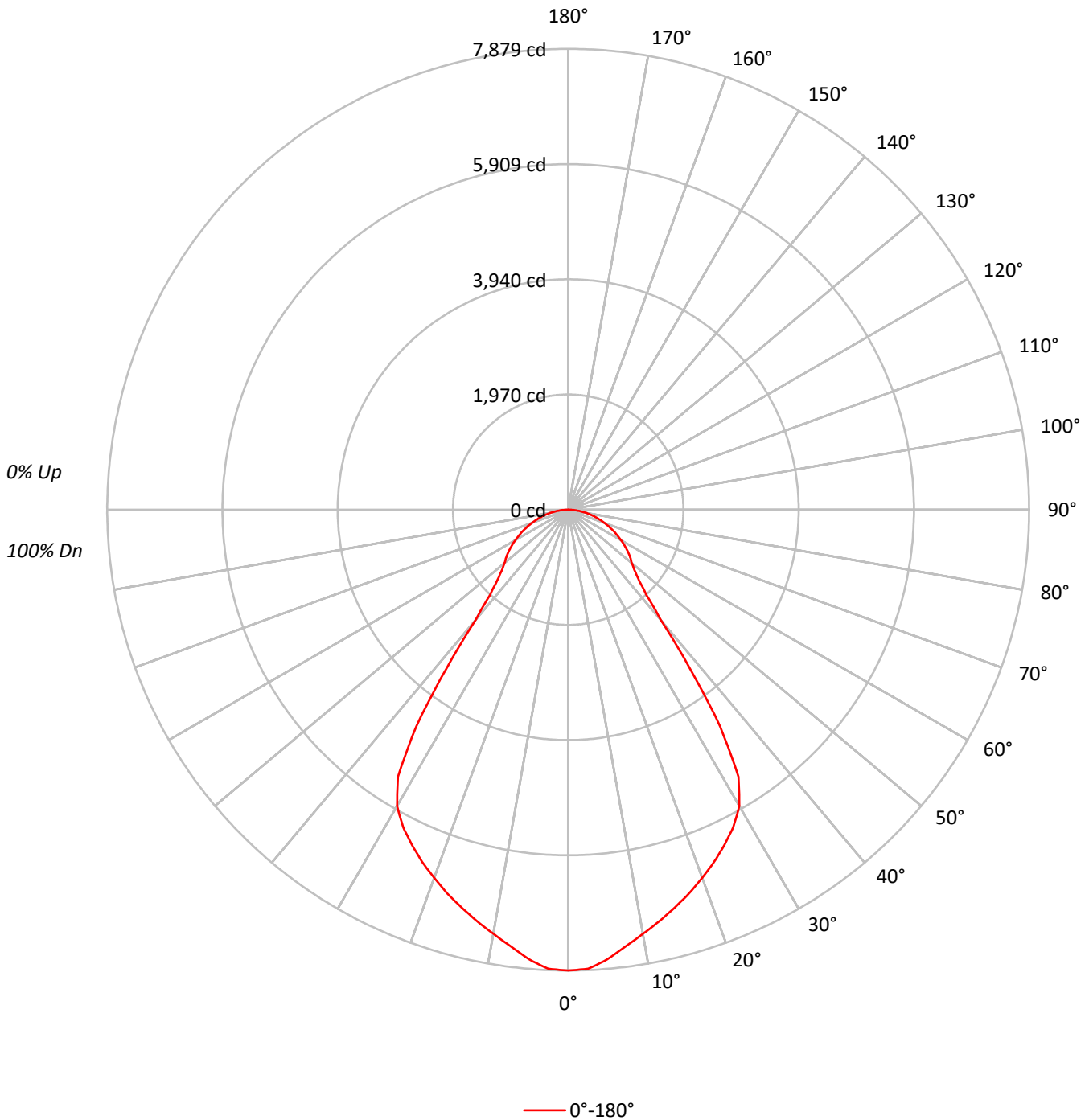
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12317.5 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 111.8  
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: 0.5 HR  
Operation Time: 3 HR  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

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

	0°
0°	38872
5°	38215
10°	36889
15°	35966
20°	35166
25°	34408
30°	33322
35°	27283
40°	15843
45°	11981
50°	10887
55°	10703
60°	10321
65°	9908
70°	9515
75°	9101
80°	8714
85°	8356

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11981 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	724.6	5.9
10°-20°	1985.5	16.1
20°-30°	2907.6	23.6
30°-40°	2703.5	21.9
40°-50°	1377.3	11.2
50°-60°	1108.0	9.0
60°-70°	841.3	6.8
70°-80°	506.7	4.1
80°-90°	162.8	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5617.8	45.6
0°-40°	8321.3	67.6
0°-60°	10806.6	87.7
0°-90°	12317.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12317.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7879	
5°	7716	725
15°	7041	1985
25°	6321	2908
35°	4530	2703
45°	1717	1377
55°	1244	1108
65°	849	841
75°	477	507
85°	148	163
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7878.6
2.5°	7855.5
5°	7716.0
7.5°	7529.2
10°	7363.1
12.5°	7205.1
15°	7041.4
17.5°	6875.3
20°	6697.7
22.5°	6517.8
25°	6320.6
27.5°	6113.1
30°	5849.0
32.5°	5414.2
35°	4529.7
37.5°	3399.6
40°	2459.8
42.5°	1977.7
45°	1717.1
47.5°	1533.7
50°	1418.4
52.5°	1335.4
55°	1244.3
57.5°	1142.8
60°	1045.9
62.5°	945.6
65°	848.7
67.5°	753.0
70°	659.6
72.5°	568.5
75°	477.4
77.5°	392.1
80°	306.7
82.5°	227.2
85°	147.6
87.5°	70.3
90°	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.70	20.05	19.06	20.36	20.68	18.70	20.05	19.06	20.36	20.68
	3H	20.50	21.71	20.87	22.04	22.40	20.50	21.71	20.87	22.04	22.40
	4H	21.20	22.34	21.60	22.69	23.07	21.20	22.34	21.60	22.69	23.07
	6H	21.76	22.81	22.18	23.18	23.57	21.76	22.81	22.18	23.18	23.57
	8H	21.96	22.96	22.39	23.35	23.75	21.96	22.96	22.39	23.35	23.75
	12H	22.11	23.06	22.54	23.44	23.87	22.11	23.06	22.54	23.44	23.87
4H	2H	19.28	20.42	19.68	20.77	21.15	19.28	20.42	19.68	20.77	21.15
	3H	21.30	22.25	21.72	22.65	23.05	21.30	22.25	21.72	22.65	23.05
	4H	22.14	22.99	22.58	23.41	23.85	22.14	22.99	22.58	23.41	23.85
	6H	22.84	23.58	23.30	24.03	24.49	22.84	23.58	23.30	24.03	24.49
	8H	23.10	23.79	23.56	24.23	24.70	23.10	23.79	23.56	24.23	24.70
	12H	23.30	23.91	23.78	24.39	24.86	23.30	23.91	23.78	24.39	24.86
8H	4H	22.45	23.14	22.92	23.58	24.05	22.45	23.14	22.92	23.58	24.05
	6H	23.29	23.86	23.79	24.35	24.83	23.29	23.86	23.79	24.35	24.83
	8H	23.64	24.14	24.16	24.66	25.15	23.64	24.14	24.16	24.66	25.15
	12H	23.93	24.38	24.45	24.87	25.44	23.93	24.38	24.45	24.87	25.44
12H	4H	22.48	23.09	22.96	23.57	24.04	22.48	23.09	22.96	23.57	24.04
	6H	23.36	23.86	23.88	24.38	24.87	23.36	23.86	23.88	24.38	24.87
	8H	23.77	24.21	24.28	24.71	25.28	23.77	24.21	24.28	24.71	25.28