

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: P867247

Luminaire Tested: PRLX-2004-L-930-117L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867247  
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-930-117L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

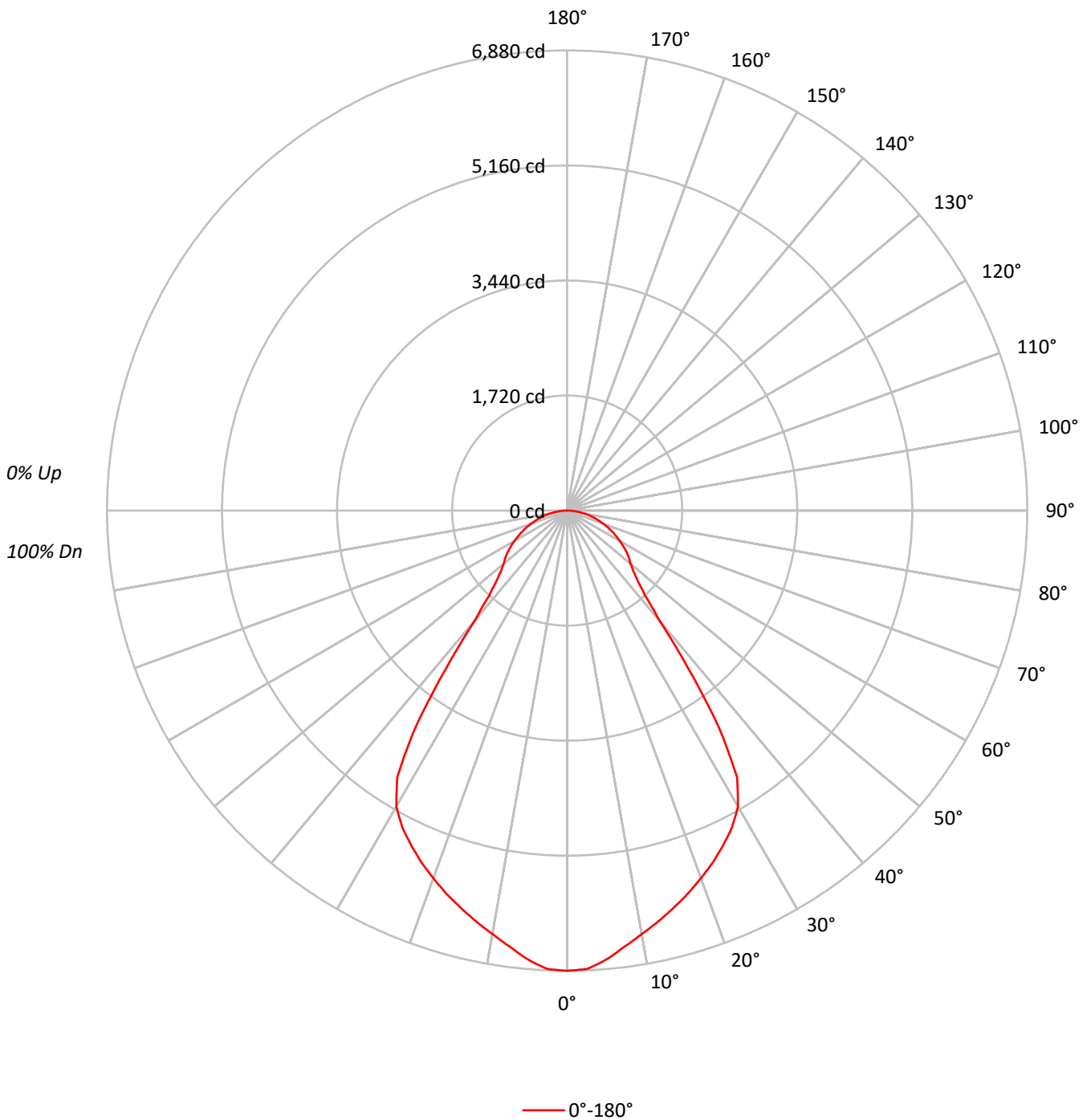
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10756.9 lumens  
Efficiency: N/A  
Efficacy: 113.0 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): 95.2  
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°	33947
5°	33373
10°	32215
15°	31409
20°	30710
25°	30049
30°	29100
35°	23826
40°	13835
45°	10463
50°	9508
55°	9347
60°	9013
65°	8653
70°	8309
75°	7947
80°	7612
85°	7297

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10463 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.8	5.9
10°-20°	1733.9	16.1
20°-30°	2539.2	23.6
30°-40°	2360.9	21.9
40°-50°	1202.8	11.2
50°-60°	967.6	9.0
60°-70°	734.7	6.8
70°-80°	442.5	4.1
80°-90°	142.2	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°	4906.0	45.6
0°-40°	7266.9	67.6
0°-60°	9437.4	87.7
0°-90°	10756.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10756.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6880	
5°	6738	633
15°	6149	1734
25°	5520	2539
35°	3956	2361
45°	1500	1203
55°	1087	968
65°	741	735
75°	417	443
85°	129	142
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6880.4
2.5°	6860.2
5°	6738.4
7.5°	6575.2
10°	6430.2
12.5°	6292.2
15°	6149.2
17.5°	6004.2
20°	5849.1
22.5°	5692.0
25°	5519.8
27.5°	5338.5
30°	5107.9
32.5°	4728.2
35°	3955.8
37.5°	2968.9
40°	2148.1
42.5°	1727.1
45°	1499.5
47.5°	1339.4
50°	1238.7
52.5°	1166.2
55°	1086.6
57.5°	998.0
60°	913.4
62.5°	825.8
65°	741.2
67.5°	657.6
70°	576.0
72.5°	496.5
75°	416.9
77.5°	342.4
80°	267.9
82.5°	198.4
85°	128.9
87.5°	61.4
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	18.23	19.58	18.59	19.89	20.21	18.23	19.58	18.59	19.89	20.21
	3H	20.02	21.24	20.40	21.57	21.93	20.02	21.24	20.40	21.57	21.93
	4H	20.73	21.87	21.13	22.22	22.60	20.73	21.87	21.13	22.22	22.60
	6H	21.29	22.34	21.71	22.71	23.10	21.29	22.34	21.71	22.71	23.10
	8H	21.49	22.49	21.92	22.88	23.28	21.49	22.49	21.92	22.88	23.28
	12H	21.64	22.59	22.07	22.97	23.40	21.64	22.59	22.07	22.97	23.40
4H	2H	18.81	19.95	19.21	20.30	20.68	18.81	19.95	19.21	20.30	20.68
	3H	20.83	21.78	21.25	22.18	22.58	20.83	21.78	21.25	22.18	22.58
	4H	21.67	22.52	22.11	22.94	23.38	21.67	22.52	22.11	22.94	23.38
	6H	22.37	23.11	22.83	23.56	24.02	22.37	23.11	22.83	23.56	24.02
	8H	22.63	23.32	23.09	23.76	24.23	22.63	23.32	23.09	23.76	24.23
	12H	22.82	23.44	23.31	23.92	24.39	22.82	23.44	23.31	23.92	24.39
8H	4H	21.98	22.67	22.45	23.11	23.58	21.98	22.67	22.45	23.11	23.58
	6H	22.82	23.39	23.32	23.88	24.36	22.82	23.39	23.32	23.88	24.36
	8H	23.17	23.67	23.69	24.19	24.68	23.17	23.67	23.69	24.19	24.68
	12H	23.46	23.91	23.98	24.40	24.97	23.46	23.91	23.98	24.40	24.97
12H	4H	22.01	22.62	22.49	23.10	23.57	22.01	22.62	22.49	23.10	23.57
	6H	22.89	23.39	23.40	23.91	24.40	22.89	23.39	23.40	23.91	24.40
	8H	23.30	23.74	23.81	24.24	24.81	23.30	23.74	23.81	24.24	24.81