

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: P867187

Luminaire Tested: PRLX-2004-L-927-117L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-L-927-117L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

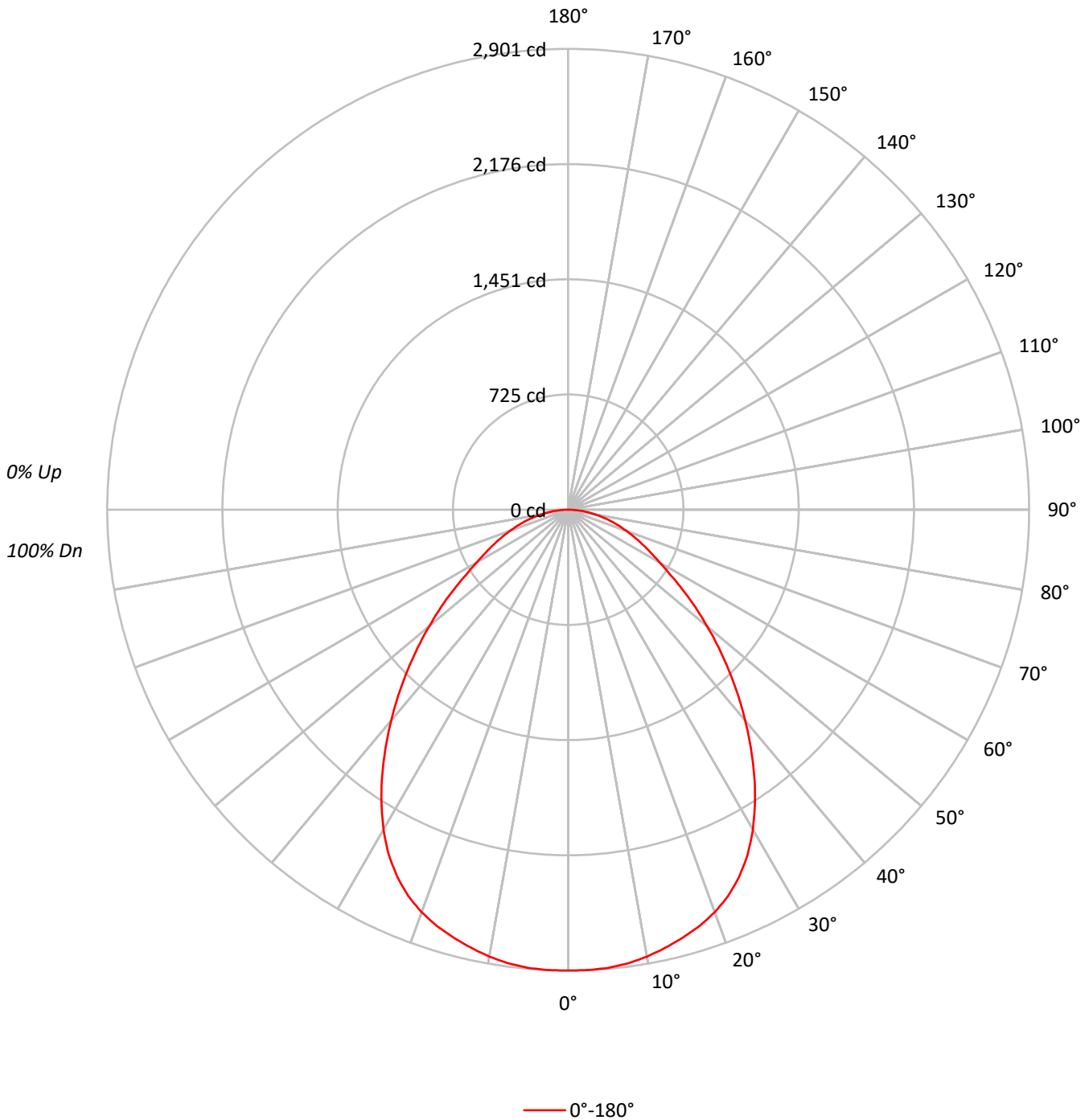
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6297.8 lumens  
Efficiency: N/A  
Efficacy: 66.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31	30

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

	0°
0°	14312
5°	14339
10°	14311
15°	14245
20°	14158
25°	13870
30°	13245
35°	12296
40°	11160
45°	9962
50°	8756
55°	7562
60°	6557
65°	6022
70°	5622
75°	5275
80°	4975
85°	4687

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9962 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.1	4.4
10°-20°	787.0	12.5
20°-30°	1167.9	18.5
30°-40°	1272.0	20.2
40°-50°	1102.9	17.5
50°-60°	792.6	12.6
60°-70°	514.0	8.2
70°-80°	294.2	4.7
80°-90°	92.2	1.5
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°	2230.0	35.4
0°-40°	3502.0	55.6
0°-60°	5397.4	85.7
0°-90°	6297.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6297.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2901	
5°	2895	275
15°	2789	787
25°	2548	1168
35°	2042	1272
45°	1428	1103
55°	879	793
65°	516	514
75°	277	294
85°	83	92
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2900.8
2.5°	2900.8
5°	2895.2
7.5°	2880.1
10°	2856.6
12.5°	2824.6
15°	2788.8
17.5°	2747.4
20°	2696.6
22.5°	2631.6
25°	2547.9
27.5°	2446.2
30°	2324.8
32.5°	2188.3
35°	2041.5
37.5°	1887.1
40°	1732.8
42.5°	1580.3
45°	1427.8
47.5°	1283.8
50°	1140.8
52.5°	1009.0
55°	879.1
57.5°	761.4
60°	664.5
62.5°	585.4
65°	515.8
67.5°	449.9
70°	389.7
72.5°	331.3
75°	276.7
77.5°	225.0
80°	175.1
82.5°	128.0
85°	82.8
87.5°	40.5
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	18.00	19.50	18.36	19.81	20.12	18.00	19.50	18.36	19.81	20.12
	3H	19.51	20.85	19.89	21.18	21.54	19.51	20.85	19.89	21.18	21.54
	4H	20.11	21.37	20.51	21.72	22.10	20.11	21.37	20.51	21.72	22.10
	6H	20.59	21.75	21.00	22.12	22.51	20.59	21.75	21.00	22.12	22.51
	8H	20.76	21.87	21.18	22.26	22.66	20.76	21.87	21.18	22.26	22.66
	12H	20.88	21.94	21.31	22.32	22.75	20.88	21.94	21.31	22.32	22.75
4H	2H	18.50	19.76	18.90	20.11	20.49	18.50	19.76	18.90	20.11	20.49
	3H	20.25	21.30	20.66	21.70	22.10	20.25	21.30	20.66	21.70	22.10
	4H	20.99	21.93	21.42	22.35	22.79	20.99	21.93	21.42	22.35	22.79
	6H	21.60	22.43	22.06	22.87	23.33	21.60	22.43	22.06	22.87	23.33
	8H	21.83	22.59	22.29	23.04	23.51	21.83	22.59	22.29	23.04	23.51
	12H	22.00	22.69	22.48	23.17	23.64	22.00	22.69	22.48	23.17	23.64
8H	4H	21.26	22.03	21.73	22.48	22.94	21.26	22.03	21.73	22.48	22.94
	6H	22.01	22.65	22.51	23.14	23.62	22.01	22.65	22.51	23.14	23.62
	8H	22.32	22.89	22.83	23.40	23.89	22.32	22.89	22.83	23.40	23.89
	12H	22.58	23.09	23.09	23.58	24.14	22.58	23.09	23.09	23.58	24.14
12H	4H	21.29	21.98	21.77	22.46	22.93	21.29	21.98	21.77	22.46	22.93
	6H	22.07	22.64	22.58	23.15	23.64	22.07	22.64	22.58	23.15	23.64
	8H	22.44	22.94	22.95	23.43	24.00	22.44	22.94	22.95	23.43	24.00