

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: P867283

Luminaire Tested: PRLX-2004-L-930-48L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867283  
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-930-48L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

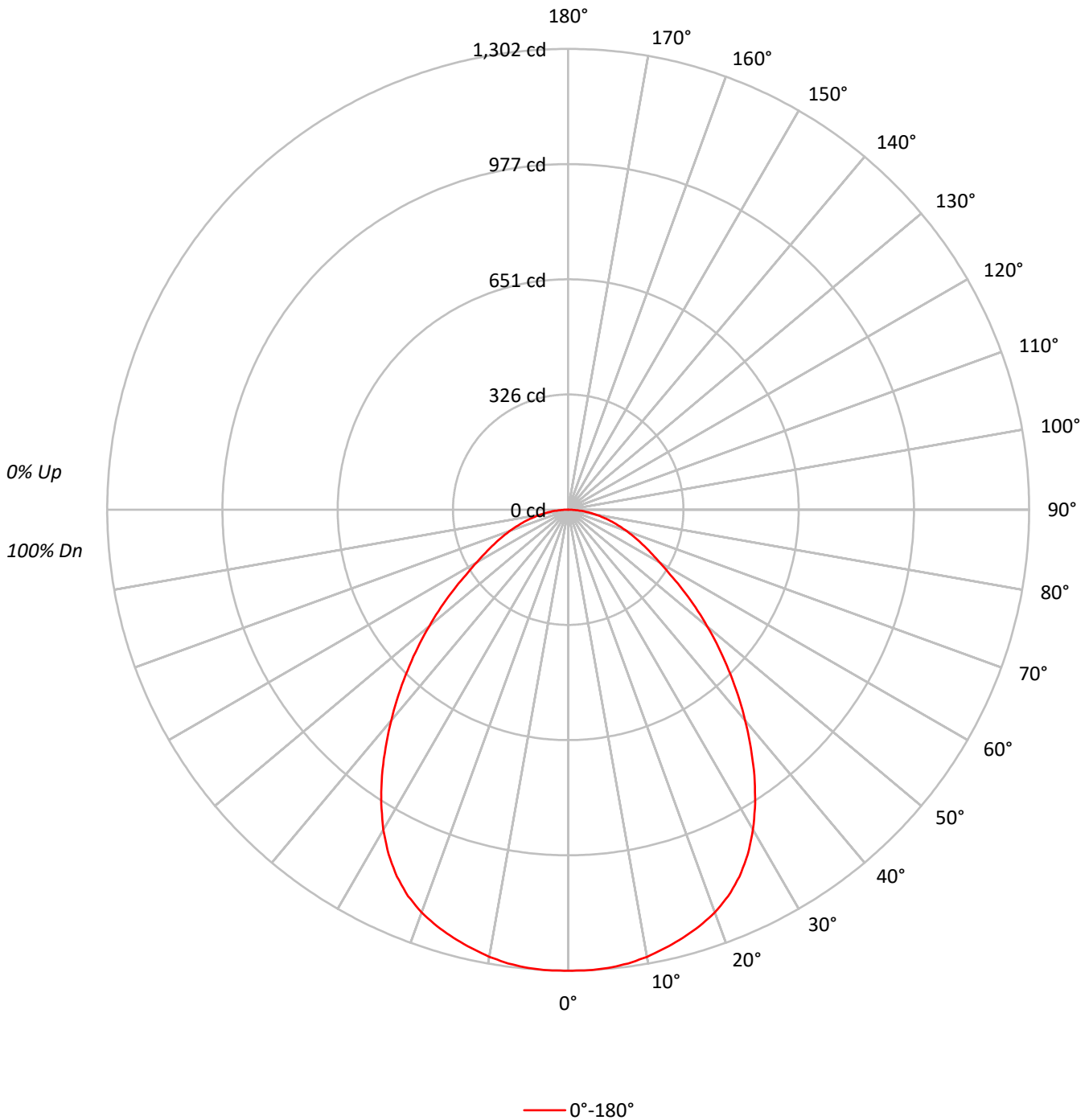
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2827.8 lumens  
Efficiency: N/A  
Efficacy: 75.4 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): 37.5  
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°	6426
5°	6438
10°	6426
15°	6396
20°	6357
25°	6228
30°	5947
35°	5521
40°	5011
45°	4473
50°	3931
55°	3395
60°	2944
65°	2704
70°	2524
75°	2368
80°	2233
85°	2106

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4473 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.5	4.4
10°-20°	353.4	12.5
20°-30°	524.4	18.5
30°-40°	571.1	20.2
40°-50°	495.2	17.5
50°-60°	355.9	12.6
60°-70°	230.8	8.2
70°-80°	132.1	4.7
80°-90°	41.4	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
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0°-30°	1001.3	35.4
0°-40°	1572.4	55.6
0°-60°	2423.5	85.7
0°-90°	2827.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1302	
5°	1300	124
15°	1252	353
25°	1144	524
35°	917	571
45°	641	495
55°	395	356
65°	232	231
75°	124	132
85°	37	41
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1302.5
2.5°	1302.5
5°	1300.0
7.5°	1293.2
10°	1282.6
12.5°	1268.3
15°	1252.2
17.5°	1233.6
20°	1210.8
22.5°	1181.6
25°	1144.0
27.5°	1098.4
30°	1043.9
32.5°	982.6
35°	916.7
37.5°	847.3
40°	778.0
42.5°	709.6
45°	641.1
47.5°	576.4
50°	512.2
52.5°	453.0
55°	394.7
57.5°	341.9
60°	298.4
62.5°	262.9
65°	231.6
67.5°	202.0
70°	175.0
72.5°	148.8
75°	124.2
77.5°	101.0
80°	78.6
82.5°	57.5
85°	37.2
87.5°	18.2
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	15.22	16.72	15.58	17.03	17.34	15.22	16.72	15.58	17.03	17.34
	3H	16.73	18.07	17.11	18.40	18.76	16.73	18.07	17.11	18.40	18.76
	4H	17.33	18.59	17.73	18.94	19.32	17.33	18.59	17.73	18.94	19.32
	6H	17.81	18.97	18.22	19.34	19.73	17.81	18.97	18.22	19.34	19.73
	8H	17.98	19.08	18.40	19.47	19.88	17.98	19.08	18.40	19.47	19.88
	12H	18.10	19.16	18.53	19.54	19.97	18.10	19.16	18.53	19.54	19.97
4H	2H	15.72	16.98	16.12	17.33	17.71	15.72	16.98	16.12	17.33	17.71
	3H	17.47	18.52	17.88	18.92	19.32	17.47	18.52	17.88	18.92	19.32
	4H	18.21	19.15	18.64	19.56	20.00	18.21	19.15	18.64	19.56	20.00
	6H	18.82	19.64	19.28	20.09	20.55	18.82	19.64	19.28	20.09	20.55
	8H	19.04	19.81	19.51	20.26	20.72	19.04	19.81	19.51	20.26	20.72
	12H	19.22	19.91	19.70	20.38	20.86	19.22	19.91	19.70	20.38	20.86
8H	4H	18.48	19.25	18.95	19.69	20.16	18.48	19.25	18.95	19.69	20.16
	6H	19.23	19.87	19.73	20.36	20.83	19.23	19.87	19.73	20.36	20.83
	8H	19.54	20.11	20.05	20.62	21.11	19.54	20.11	20.05	20.62	21.11
	12H	19.80	20.30	20.31	20.80	21.36	19.80	20.30	20.31	20.80	21.36
12H	4H	18.51	19.20	18.99	19.67	20.15	18.51	19.20	18.99	19.67	20.15
	6H	19.29	19.86	19.80	20.37	20.86	19.29	19.86	19.80	20.37	20.86
	8H	19.65	20.16	20.16	20.65	21.22	19.65	20.16	20.16	20.65	21.22