

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: P866768

Luminaire Tested: PRLX-2001-L-930-48L-G-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-930-48L-G-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

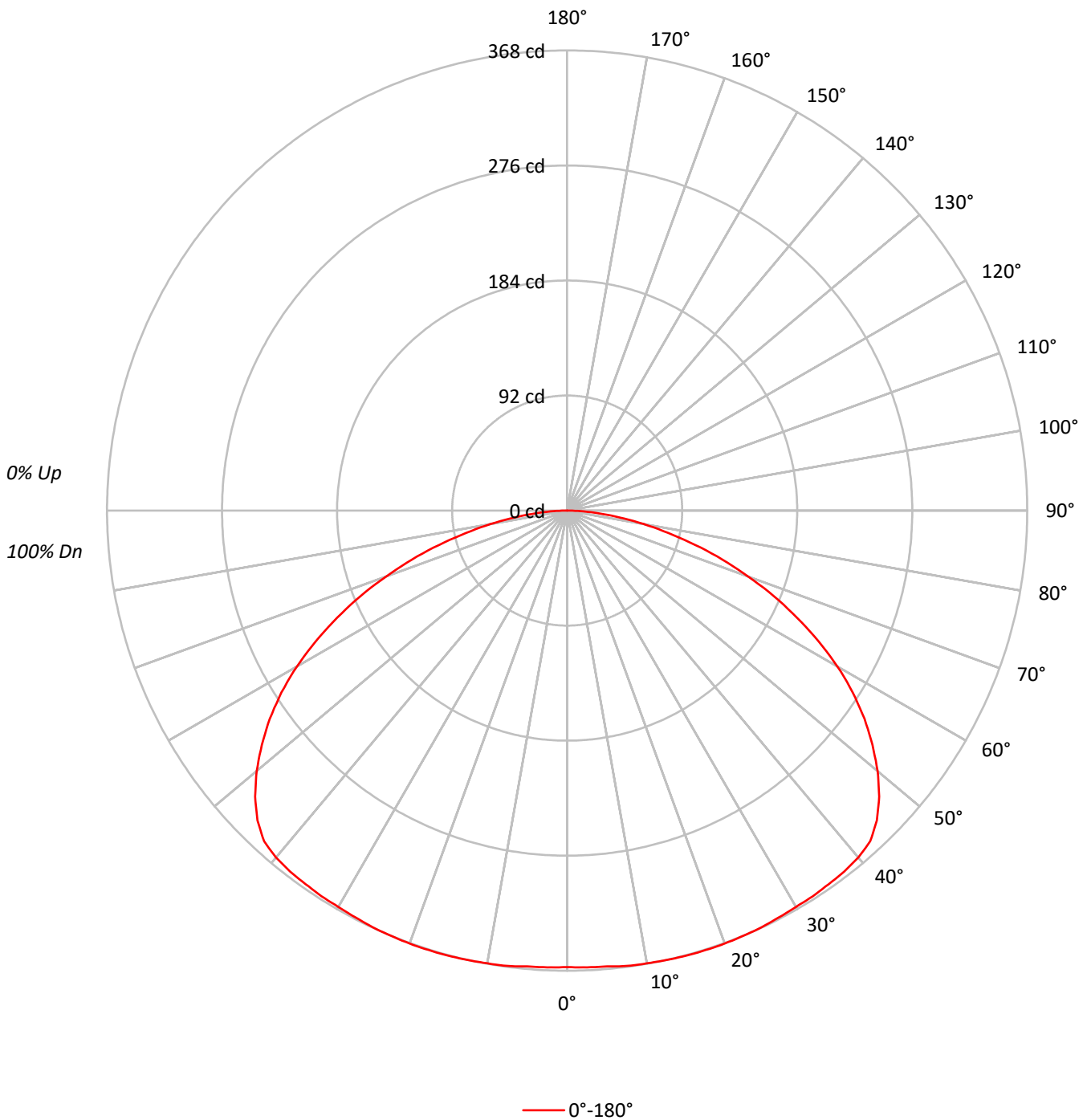
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1408.6 lumens  
Efficiency: N/A  
Efficacy: 37.6 lumens/watt  
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64  
Luminous Opening: Circular (Dia: 1.58' 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

TEST NUMBER: P866768

CATALOG NUMBER: PRLX-2001-L-930-48L-G-X-X-BLAK-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866768

CATALOG NUMBER: PRLX-2001-L-930-48L-G-X-X-BLAK-X

**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	108	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

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

	0°
0°	1996
5°	2009
10°	2041
15°	2086
20°	2144
25°	2218
30°	2310
35°	2434
40°	2585
45°	2708
50°	2756
55°	2767
60°	2731
65°	2625
70°	2458
75°	2241
80°	1955
85°	1537

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 55°  
 Luminance: 2767 cd/sqm

TEST NUMBER: P866768

CATALOG NUMBER: PRLX-2001-L-930-48L-G-X-X-BLAK-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.0	2.5
10°-20°	104.4	7.4
20°-30°	170.1	12.1
30°-40°	229.0	16.3
40°-50°	268.9	19.1
50°-60°	258.6	18.4
60°-70°	200.6	14.2
70°-80°	112.6	8.0
80°-90°	29.5	2.1
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°	309.5	22.0
0°-40°	538.5	38.2
0°-60°	1065.9	75.7
0°-90°	1408.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1408.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	365	
5°	366	35
15°	368	104
25°	368	170
35°	365	229
45°	350	269
55°	290	259
65°	203	201
75°	106	113
85°	24	29
90°	0	

TEST NUMBER: P866768

CATALOG NUMBER: PRLX-2001-L-930-48L-G-X-X-BLAK-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	365.1
2.5°	365.6
5°	366.0
7.5°	367.3
10°	367.7
12.5°	368.1
15°	368.5
17.5°	368.5
20°	368.5
22.5°	368.1
25°	367.7
27.5°	366.8
30°	366.0
32.5°	365.6
35°	364.7
37.5°	363.9
40°	362.2
42.5°	358.8
45°	350.3
47.5°	338.5
50°	324.1
52.5°	307.7
55°	290.3
57.5°	270.9
60°	249.8
62.5°	226.9
65°	202.9
67.5°	179.2
70°	153.8
72.5°	130.2
75°	106.1
77.5°	82.8
80°	62.1
82.5°	42.3
85°	24.5
87.5°	10.6
90°	0.0



TEST NUMBER: P866768  
 CATALOG NUMBER: PRLX-2001-L-930-48L-G-X-X-BLAK-X

**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	16.12	17.84	16.48	18.15	18.47	16.12	17.84	16.48	18.15	18.47
	3H	17.94	19.50	18.32	19.83	20.19	17.94	19.50	18.32	19.83	20.19
	4H	18.60	20.07	19.00	20.42	20.79	18.60	20.07	19.00	20.42	20.79
	6H	19.06	20.43	19.47	20.79	21.18	19.06	20.43	19.47	20.79	21.18
	8H	19.20	20.51	19.62	20.90	21.30	19.20	20.51	19.62	20.90	21.30
	12H	19.29	20.55	19.72	20.93	21.35	19.29	20.55	19.72	20.93	21.35
4H	2H	16.78	18.25	17.17	18.60	18.97	16.78	18.25	17.17	18.60	18.97
	3H	18.81	20.05	19.22	20.45	20.85	18.81	20.05	19.22	20.45	20.85
	4H	19.59	20.72	20.02	21.13	21.56	19.59	20.72	20.02	21.13	21.56
	6H	20.18	21.16	20.63	21.60	22.05	20.18	21.16	20.63	21.60	22.05
	8H	20.36	21.29	20.82	21.73	22.19	20.36	21.29	20.82	21.73	22.19
	12H	20.49	21.32	20.97	21.80	22.26	20.49	21.32	20.97	21.80	22.26
8H	4H	19.90	20.83	20.36	21.27	21.73	19.90	20.83	20.36	21.27	21.73
	6H	20.60	21.37	21.09	21.86	22.33	20.60	21.37	21.09	21.86	22.33
	8H	20.85	21.55	21.36	22.05	22.53	20.85	21.55	21.36	22.05	22.53
	12H	21.05	21.66	21.55	22.15	22.70	21.05	21.66	21.55	22.15	22.70
12H	4H	19.94	20.77	20.42	21.25	21.71	19.94	20.77	20.42	21.25	21.71
	6H	20.66	21.35	21.16	21.85	22.33	20.66	21.35	21.16	21.85	22.33
	8H	20.96	21.57	21.47	22.06	22.62	20.96	21.57	21.47	22.06	22.62