

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: P867279

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867279  
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-930-48L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

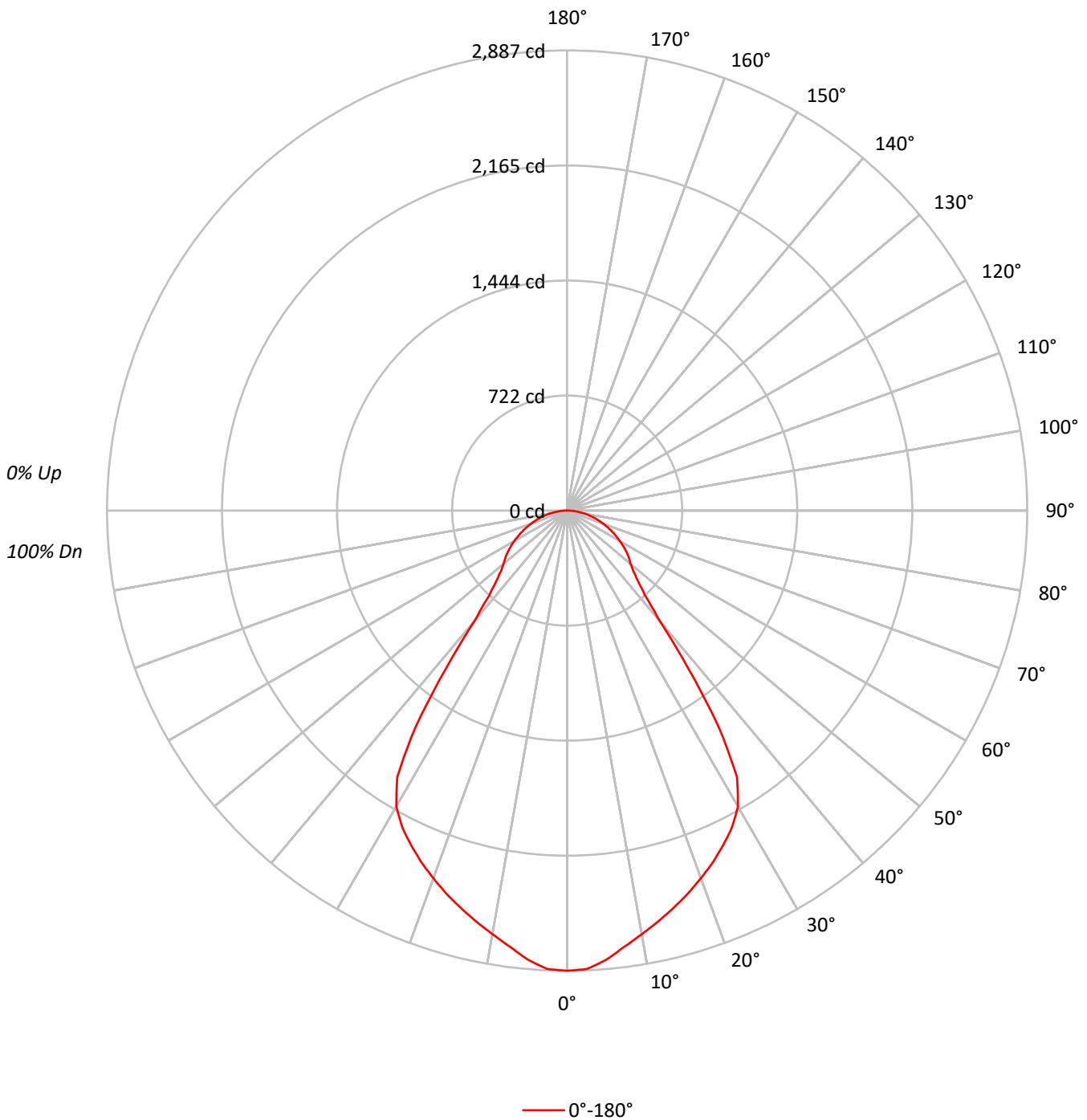
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4514.1 lumens  
Efficiency: N/A  
Efficacy: 120.4 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): 37.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P867279

CATALOG NUMBER: PRLX-2004-L-930-48L-L-X-X-WHHR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P867279

CATALOG NUMBER: PRLX-2004-L-930-48L-L-X-X-WHHR-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	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°	14245
5°	14005
10°	13519
15°	13181
20°	12888
25°	12610
30°	12212
35°	9998
40°	5806
45°	4391
50°	3990
55°	3922
60°	3782
65°	3631
70°	3487
75°	3336
80°	3194
85°	3063

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4391 cd/sqm

TEST NUMBER: P867279

CATALOG NUMBER: PRLX-2004-L-930-48L-L-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.6	5.9
10°-20°	727.6	16.1
20°-30°	1065.6	23.6
30°-40°	990.8	21.9
40°-50°	504.8	11.2
50°-60°	406.1	9.0
60°-70°	308.3	6.8
70°-80°	185.7	4.1
80°-90°	59.7	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°	2058.8	45.6
0°-40°	3049.5	67.6
0°-60°	3960.4	87.7
0°-90°	4514.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4514.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2887	
5°	2828	266
15°	2580	728
25°	2316	1066
35°	1660	991
45°	629	505
55°	456	406
65°	311	308
75°	175	186
85°	54	60
90°	0	

TEST NUMBER: P867279

CATALOG NUMBER: PRLX-2004-L-930-48L-L-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2887.3
2.5°	2878.9
5°	2827.7
7.5°	2759.3
10°	2698.4
12.5°	2640.5
15°	2580.5
17.5°	2519.6
20°	2454.6
22.5°	2388.6
25°	2316.4
27.5°	2240.3
30°	2143.5
32.5°	1984.2
35°	1660.0
37.5°	1245.9
40°	901.4
42.5°	724.8
45°	629.3
47.5°	562.1
50°	519.8
52.5°	489.4
55°	456.0
57.5°	418.8
60°	383.3
62.5°	346.5
65°	311.0
67.5°	276.0
70°	241.7
72.5°	208.3
75°	175.0
77.5°	143.7
80°	112.4
82.5°	83.3
85°	54.1
87.5°	25.8
90°	0.0



TEST NUMBER: P867279  
 CATALOG NUMBER: PRLX-2004-L-930-48L-L-X-X-WHHR-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	15.21	16.56	15.57	16.88	17.19	15.21	16.56	15.57	16.88	17.19
	3H	17.01	18.22	17.39	18.55	18.91	17.01	18.22	17.39	18.55	18.91
	4H	17.71	18.85	18.12	19.20	19.58	17.71	18.85	18.12	19.20	19.58
	6H	18.27	19.32	18.69	19.69	20.09	18.27	19.32	18.69	19.69	20.09
	8H	18.48	19.47	18.90	19.86	20.27	18.48	19.47	18.90	19.86	20.27
	12H	18.62	19.57	19.05	19.96	20.39	18.62	19.57	19.05	19.96	20.39
4H	2H	15.79	16.93	16.20	17.28	17.66	15.79	16.93	16.20	17.28	17.66
	3H	17.82	18.76	18.23	19.16	19.57	17.82	18.76	18.23	19.16	19.57
	4H	18.66	19.51	19.09	19.93	20.37	18.66	19.51	19.09	19.93	20.37
	6H	19.36	20.09	19.82	20.54	21.00	19.36	20.09	19.82	20.54	21.00
	8H	19.61	20.30	20.08	20.75	21.22	19.61	20.30	20.08	20.75	21.22
	12H	19.81	20.42	20.29	20.90	21.37	19.81	20.42	20.29	20.90	21.37
8H	4H	18.96	19.65	19.43	20.10	20.57	18.96	19.65	19.43	20.10	20.57
	6H	19.80	20.37	20.30	20.86	21.34	19.80	20.37	20.30	20.86	21.34
	8H	20.15	20.66	20.67	21.17	21.66	20.15	20.66	20.67	21.17	21.66
	12H	20.45	20.89	20.96	21.38	21.95	20.45	20.89	20.96	21.38	21.95
12H	4H	18.99	19.60	19.48	20.08	20.56	18.99	19.60	19.48	20.08	20.56
	6H	19.87	20.38	20.39	20.89	21.38	19.87	20.38	20.39	20.89	21.38
	8H	20.28	20.73	20.80	21.22	21.79	20.28	20.73	20.80	21.22	21.79