

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: P866722

Luminaire Tested: PRLX-2001-L-927-83L-G-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-927-83L-G-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

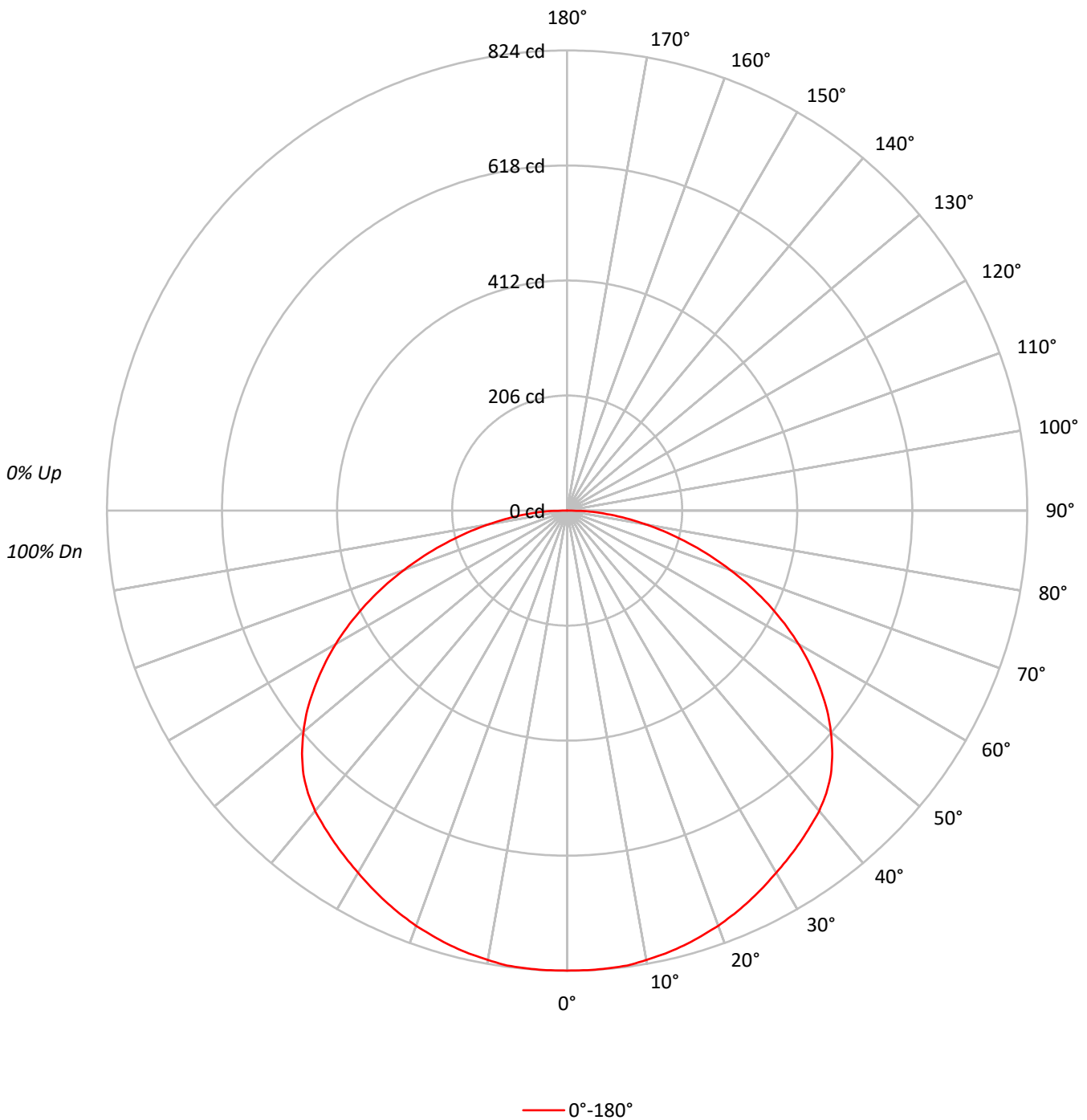
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2834.9 lumens  
Efficiency: N/A  
Efficacy: 44.0 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 64.5  
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: P866722

CATALOG NUMBER: PRLX-2001-L-927-83L-G-X-X-GREY-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866722

CATALOG NUMBER: PRLX-2001-L-927-83L-G-X-X-GREY-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	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		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	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

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

	0°
0°	4504
5°	4517
10°	4536
15°	4564
20°	4602
25°	4655
30°	4727
35°	4847
40°	5011
45°	5165
50°	5245
55°	5266
60°	5237
65°	5142
70°	4966
75°	4755
80°	4521
85°	4485

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 5268 cd/sqm

TEST NUMBER: P866722

CATALOG NUMBER: PRLX-2001-L-927-83L-G-X-X-GREY-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.4	2.8
10°-20°	227.9	8.0
20°-30°	356.3	12.6
30°-40°	455.4	16.1
40°-50°	513.8	18.1
50°-60°	493.0	17.4
60°-70°	392.7	13.9
70°-80°	238.4	8.4
80°-90°	79.0	2.8
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°	662.6	23.4
0°-40°	1118.0	39.4
0°-60°	2124.8	75.0
0°-90°	2834.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2834.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	824	
5°	823	78
15°	806	228
25°	772	356
35°	726	455
45°	668	514
55°	552	493
65°	398	393
75°	225	238
85°	72	79
90°	0	

TEST NUMBER: P866722

CATALOG NUMBER: PRLX-2001-L-927-83L-G-X-X-GREY-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	823.8
2.5°	823.8
5°	823.1
7.5°	821.8
10°	817.1
12.5°	812.4
15°	806.4
17.5°	799.0
20°	791.0
22.5°	781.7
25°	771.7
27.5°	760.3
30°	748.9
32.5°	737.6
35°	726.2
37.5°	714.2
40°	702.2
42.5°	686.8
45°	668.1
47.5°	644.0
50°	616.7
52.5°	586.6
55°	552.5
57.5°	516.4
60°	479.0
62.5°	438.9
65°	397.5
67.5°	355.4
70°	310.7
72.5°	267.9
75°	225.1
77.5°	183.7
80°	143.6
82.5°	106.2
85°	71.5
87.5°	40.8
90°	0.0



TEST NUMBER: P866722  
 CATALOG NUMBER: PRLX-2001-L-927-83L-G-X-X-GREY-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	18.19	19.90	18.55	20.21	20.52	18.19	19.90	18.55	20.21	20.52
	3H	20.15	21.70	20.52	22.03	22.39	20.15	21.70	20.52	22.03	22.39
	4H	20.91	22.37	21.30	22.72	23.09	20.91	22.37	21.30	22.72	23.09
	6H	21.51	22.87	21.91	23.23	23.62	21.51	22.87	21.91	23.23	23.62
	8H	21.72	23.03	22.15	23.42	23.81	21.72	23.03	22.15	23.42	23.81
	12H	21.89	23.15	22.32	23.53	23.96	21.89	23.15	22.32	23.53	23.96
4H	2H	18.88	20.35	19.27	20.69	21.07	18.88	20.35	19.27	20.69	21.07
	3H	21.06	22.30	21.47	22.70	23.09	21.06	22.30	21.47	22.70	23.09
	4H	21.95	23.08	22.38	23.49	23.93	21.95	23.08	22.38	23.49	23.93
	6H	22.69	23.68	23.15	24.12	24.57	22.69	23.68	23.15	24.12	24.57
	8H	22.97	23.90	23.43	24.34	24.80	22.97	23.90	23.43	24.34	24.80
	12H	23.20	24.04	23.68	24.51	24.98	23.20	24.04	23.68	24.51	24.98
8H	4H	22.32	23.25	22.78	23.69	24.15	22.32	23.25	22.78	23.69	24.15
	6H	23.20	23.98	23.69	24.46	24.94	23.20	23.98	23.69	24.46	24.94
	8H	23.57	24.27	24.07	24.77	25.25	23.57	24.27	24.07	24.77	25.25
	12H	23.90	24.52	24.40	25.01	25.56	23.90	24.52	24.40	25.01	25.56
12H	4H	22.37	23.21	22.85	23.68	24.15	22.37	23.21	22.85	23.68	24.15
	6H	23.28	23.98	23.79	24.49	24.97	23.28	23.98	23.79	24.49	24.97
	8H	23.72	24.34	24.23	24.83	25.39	23.72	24.34	24.23	24.83	25.39