

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: P866773

Luminaire Tested: PRLX-2001-L-930-67L-L-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866773  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-L-930-67L-L-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

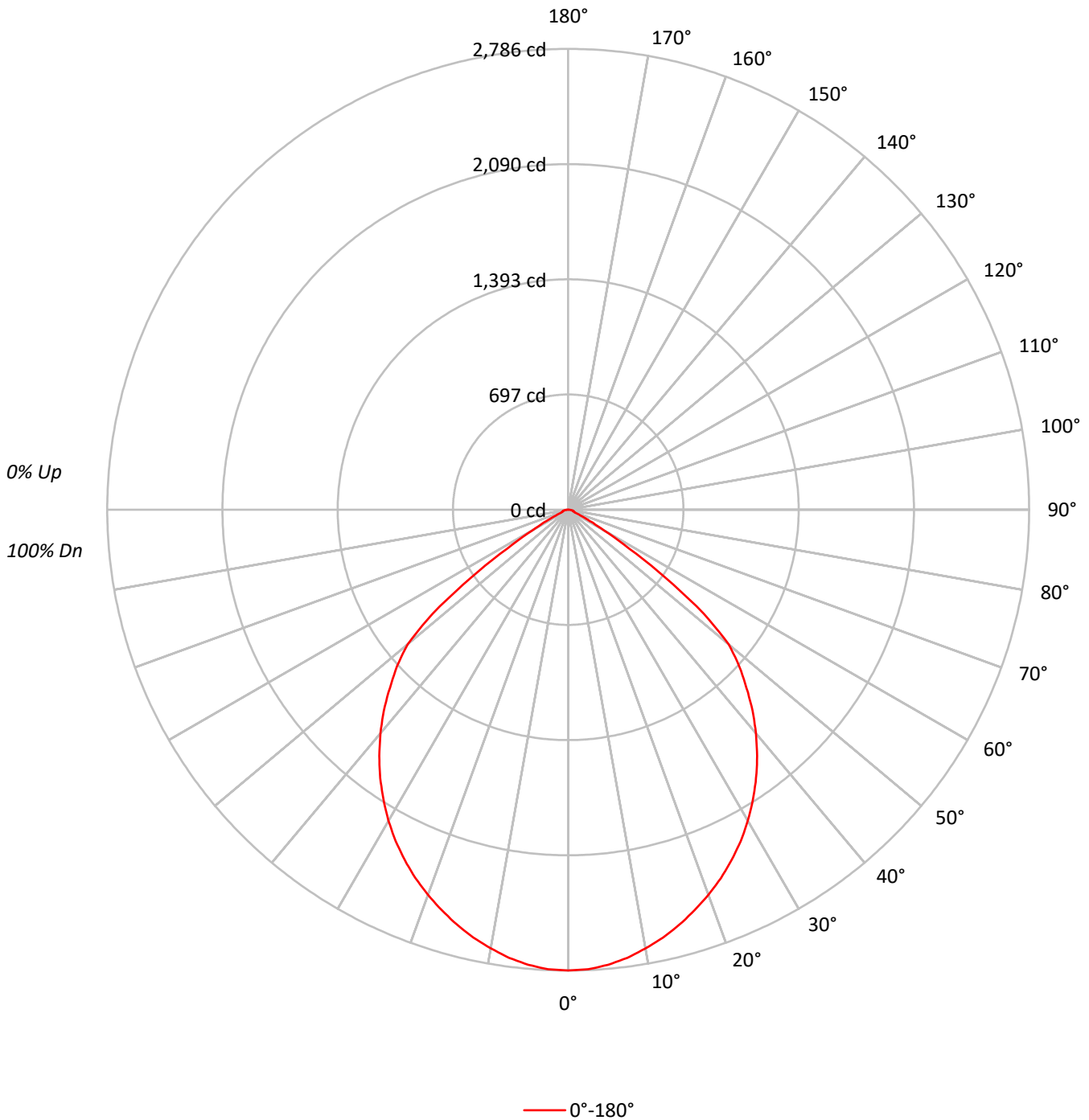
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5280.2 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 50.4  
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: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P866773

CATALOG NUMBER: PRLX-2001-L-930-67L-L-X-X-BRSS-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866773

CATALOG NUMBER: PRLX-2001-L-930-67L-L-X-X-BRSS-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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

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

	0°
0°	15228
5°	15156
10°	14949
15°	14697
20°	14416
25°	14096
30°	13707
35°	13213
40°	12594
45°	11784
50°	10772
55°	6836
60°	2712
65°	1037
70°	627
75°	684
80°	771
85°	853

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11784 cd/sqm

TEST NUMBER: P866773

CATALOG NUMBER: PRLX-2001-L-930-67L-L-X-X-BRSS-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.5	5.0
10°-20°	731.8	13.9
20°-30°	1075.6	20.4
30°-40°	1236.0	23.4
40°-50°	1174.3	22.2
50°-60°	651.1	12.3
60°-70°	101.6	1.9
70°-80°	34.1	0.6
80°-90°	14.1	0.3
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°	2068.9	39.2
0°-40°	3304.9	62.6
0°-60°	5130.3	97.2
0°-90°	5280.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5280.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2786	
5°	2762	261
15°	2597	732
25°	2337	1076
35°	1980	1236
45°	1524	1174
55°	717	651
65°	80	102
75°	32	34
85°	14	14
90°	0	

TEST NUMBER: P866773

CATALOG NUMBER: PRLX-2001-L-930-67L-L-X-X-BRSS-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2785.6
2.5°	2781.1
5°	2761.8
7.5°	2732.8
10°	2692.9
12.5°	2649.2
15°	2596.8
17.5°	2539.4
20°	2478.0
22.5°	2411.4
25°	2336.9
27.5°	2258.4
30°	2171.4
32.5°	2078.1
35°	1979.8
37.5°	1875.7
40°	1764.8
42.5°	1649.3
45°	1524.2
47.5°	1403.1
50°	1266.6
52.5°	1034.0
55°	717.2
57.5°	436.2
60°	248.0
62.5°	147.3
65°	80.2
67.5°	43.8
70°	39.2
72.5°	35.8
75°	32.4
77.5°	29.0
80°	24.5
82.5°	19.3
85°	13.6
87.5°	6.8
90°	0.0



TEST NUMBER: P866773  
 CATALOG NUMBER: PRLX-2001-L-930-67L-L-X-X-BRSS-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	15.09	16.46	15.45	16.78	17.09	15.09	16.46	15.45	16.78	17.09
	3H	15.03	16.24	15.41	16.57	16.93	15.03	16.24	15.41	16.57	16.93
	4H	15.00	16.13	15.41	16.48	16.86	15.00	16.13	15.41	16.48	16.86
	6H	14.99	16.02	15.40	16.39	16.78	14.99	16.02	15.40	16.39	16.78
	8H	14.98	15.95	15.41	16.35	16.75	14.98	15.95	15.41	16.35	16.75
	12H	14.97	15.90	15.40	16.28	16.71	14.97	15.90	15.40	16.28	16.71
4H	2H	14.96	16.08	15.36	16.43	16.81	14.96	16.08	15.36	16.43	16.81
	3H	14.93	15.83	15.34	16.23	16.64	14.93	15.83	15.34	16.23	16.64
	4H	14.92	15.72	15.35	16.14	16.58	14.92	15.72	15.35	16.14	16.58
	6H	14.94	15.64	15.41	16.08	16.55	14.94	15.64	15.41	16.08	16.55
	8H	14.94	15.59	15.41	16.04	16.51	14.94	15.59	15.41	16.04	16.51
	12H	14.95	15.52	15.43	16.01	16.48	14.95	15.52	15.43	16.01	16.48
8H	4H	14.83	15.48	15.30	15.92	16.39	14.83	15.48	15.30	15.92	16.39
	6H	14.87	15.40	15.37	15.90	16.38	14.87	15.40	15.37	15.90	16.38
	8H	14.89	15.37	15.41	15.89	16.38	14.89	15.37	15.41	15.89	16.38
	12H	14.93	15.36	15.44	15.86	16.43	14.93	15.36	15.44	15.86	16.43
12H	4H	14.79	15.36	15.28	15.85	16.32	14.79	15.36	15.28	15.85	16.32
	6H	14.83	15.31	15.35	15.83	16.32	14.83	15.31	15.35	15.83	16.32
	8H	14.88	15.31	15.39	15.81	16.38	14.88	15.31	15.39	15.81	16.38