

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: P865805

Luminaire Tested: PRLX-2004-S-930-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-S-930-25L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
BELL WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

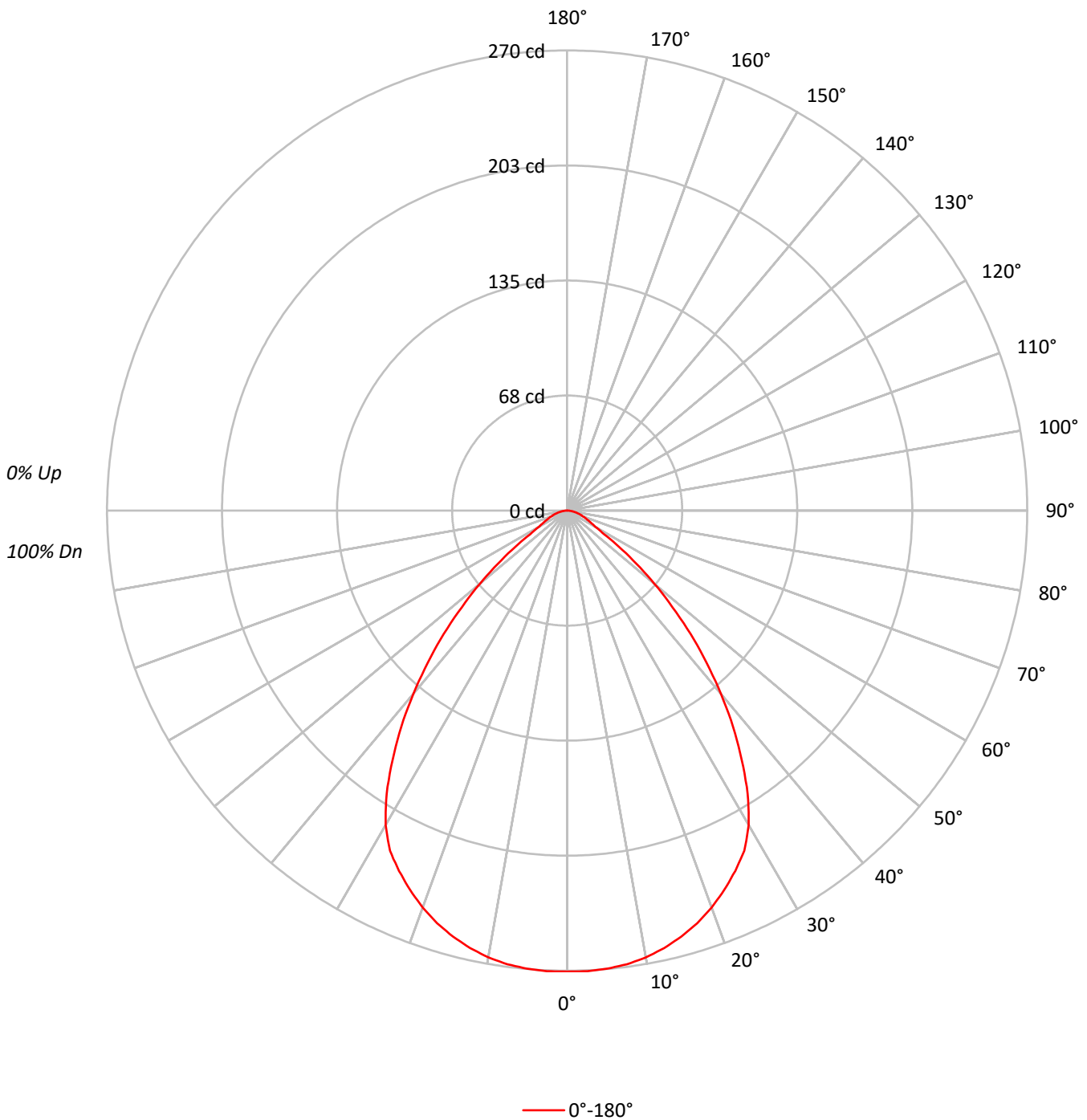
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 453.2 lumens  
Efficiency: N/A  
Efficacy: 15.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.16  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.1  
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: P865805

CATALOG NUMBER: PRLX-2004-S-930-25L-G-U-S-X-X-BRSS-X

### Luminous Intensity Polar Plot





TEST NUMBER: P865805

CATALOG NUMBER: PRLX-2004-S-930-25L-G-U-S-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	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	73	68	78	72	68	76	71	67	74	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	60	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

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

	0°
0°	4412
5°	4417
10°	4409
15°	4370
20°	4301
25°	4199
30°	4011
35°	3558
40°	2989
45°	2362
50°	1695
55°	1049
60°	620
65°	525
70°	463
75°	422
80°	366
85°	356

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2362 cd/sqm

TEST NUMBER: P865805

CATALOG NUMBER: PRLX-2004-S-930-25L-G-U-S-X-X-BRSS-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.6	5.7
10°-20°	72.9	16.1
20°-30°	107.1	23.6
30°-40°	111.0	24.5
40°-50°	78.8	17.4
50°-60°	34.8	7.7
60°-70°	13.8	3.0
70°-80°	7.1	1.6
80°-90°	2.1	0.5
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
0°-30°	205.7	45.4
0°-40°	316.7	69.9
0°-60°	430.2	94.9
0°-90°	453.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	453.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	270	
5°	270	26
15°	259	73
25°	233	107
35°	179	111
45°	102	79
55°	37	35
65°	14	14
75°	7	7
85°	2	2
90°	0	

TEST NUMBER: P865805

CATALOG NUMBER: PRLX-2004-S-930-25L-G-U-S-X-X-BRSS-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	270.5
2.5°	270.5
5°	269.8
7.5°	268.5
10°	266.2
12.5°	262.9
15°	258.8
17.5°	253.8
20°	247.8
22.5°	240.9
25°	233.3
27.5°	225.1
30°	213.0
32.5°	197.2
35°	178.7
37.5°	159.9
40°	140.4
42.5°	121.0
45°	102.4
47.5°	83.8
50°	66.8
52.5°	51.4
55°	36.9
57.5°	25.7
60°	19.0
62.5°	16.0
65°	13.6
67.5°	11.7
70°	9.7
72.5°	8.2
75°	6.7
77.5°	5.4
80°	3.9
82.5°	3.0
85°	1.9
87.5°	0.9
90°	0.0

TEST NUMBER: P865805  
 CATALOG NUMBER: PRLX-2004-S-930-25L-G-U-S-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	7.94	9.23	8.30	9.54	9.86	7.94	9.23	8.30	9.54	9.86
	3H	8.84	9.99	9.22	10.32	10.68	8.84	9.99	9.22	10.32	10.68
	4H	9.20	10.27	9.61	10.62	11.00	9.20	10.27	9.61	10.62	11.00
	6H	9.47	10.45	9.89	10.82	11.21	9.47	10.45	9.89	10.82	11.21
	8H	9.56	10.48	9.99	10.87	11.28	9.56	10.48	9.99	10.87	11.28
	12H	9.62	10.50	10.05	10.88	11.31	9.62	10.50	10.05	10.88	11.31
4H	2H	8.17	9.23	8.57	9.58	9.97	8.17	9.23	8.57	9.58	9.97
	3H	9.29	10.16	9.71	10.56	10.97	9.29	10.16	9.71	10.56	10.97
	4H	9.77	10.55	10.21	10.97	11.41	9.77	10.55	10.21	10.97	11.41
	6H	10.16	10.82	10.62	11.27	11.74	10.16	10.82	10.62	11.27	11.74
	8H	10.29	10.91	10.76	11.36	11.83	10.29	10.91	10.76	11.36	11.83
	12H	10.39	10.94	10.87	11.42	11.90	10.39	10.94	10.87	11.42	11.90
8H	4H	9.91	10.53	10.38	10.98	11.45	9.91	10.53	10.38	10.98	11.45
	6H	10.39	10.90	10.89	11.40	11.88	10.39	10.90	10.89	11.40	11.88
	8H	10.59	11.05	11.11	11.56	12.06	10.59	11.05	11.11	11.56	12.06
	12H	10.76	11.17	11.28	11.67	12.24	10.76	11.17	11.28	11.67	12.24
12H	4H	9.90	10.45	10.39	10.94	11.41	9.90	10.45	10.39	10.94	11.41
	6H	10.40	10.86	10.93	11.38	11.87	10.40	10.86	10.93	11.38	11.87
	8H	10.65	11.06	11.17	11.55	12.13	10.65	11.06	11.17	11.55	12.13