

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: P866996

Luminaire Tested: PRLX-2002-L-930-133L-L-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866996  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-83)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-930-133L-L-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

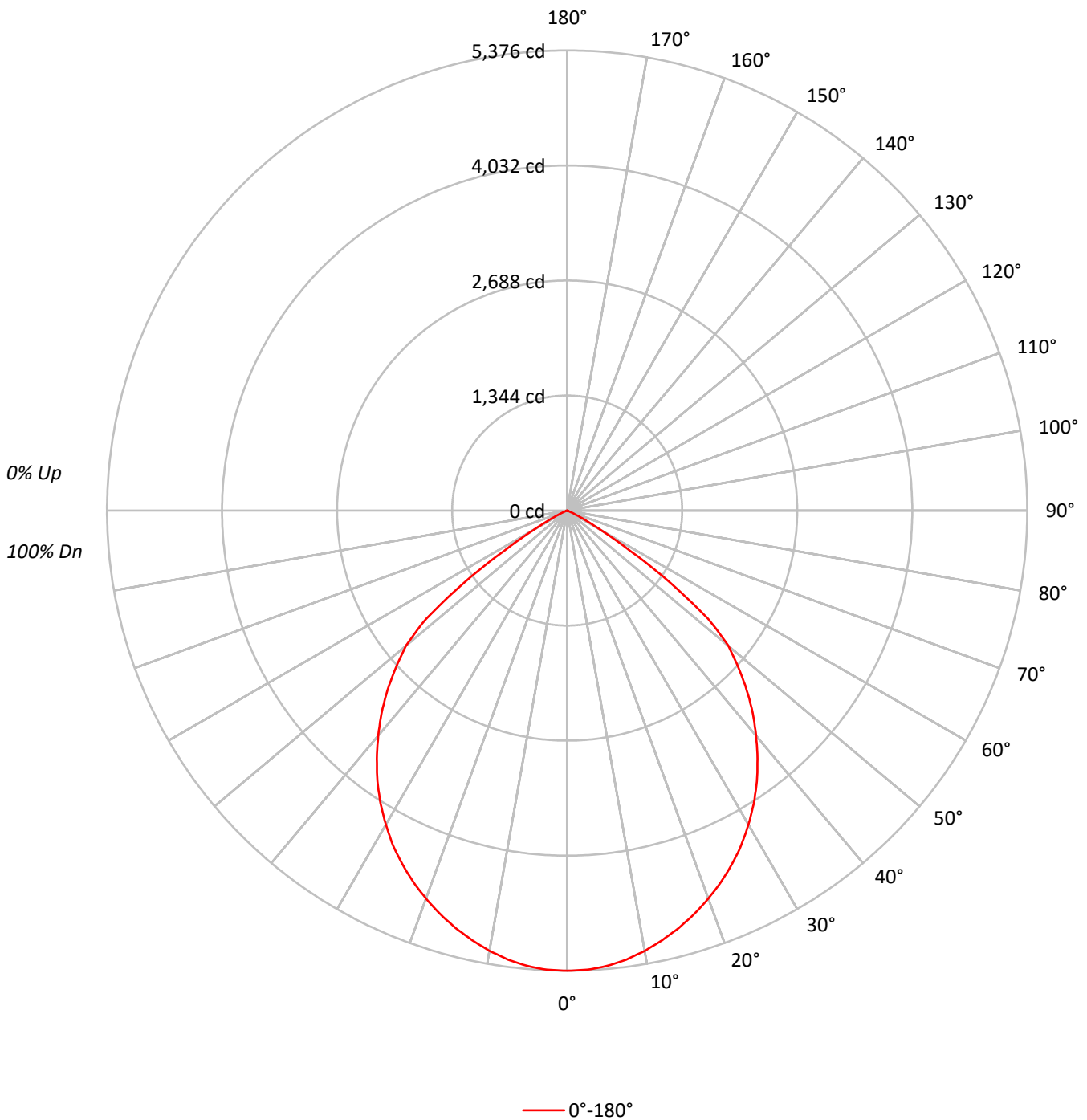
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10168.3 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 111.8  
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: P866996

CATALOG NUMBER: PRLX-2002-L-930-133L-L-X-X-BLAK-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866996

CATALOG NUMBER: PRLX-2002-L-930-133L-L-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	112	109	105	103	109	106	104	101	102	100	98	98	97	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	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	34

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

	0°
0°	26525
5°	26449
10°	26166
15°	25776
20°	25327
25°	24810
30°	24137
35°	23268
40°	22111
45°	20704
50°	18871
55°	12618
60°	4484
65°	1037
70°	166
75°	175
80°	230
85°	260

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20704 cd/sqm

TEST NUMBER: P866996

CATALOG NUMBER: PRLX-2002-L-930-133L-L-X-X-BLAK-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.0	5.0
10°-20°	1422.2	14.0
20°-30°	2097.2	20.6
30°-40°	2410.0	23.7
40°-50°	2281.6	22.4
50°-60°	1299.0	12.8
60°-70°	137.7	1.4
70°-80°	9.9	0.1
80°-90°	4.6	0.0
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°	4025.4	39.6
0°-40°	6435.5	63.3
0°-60°	10016.1	98.5
0°-90°	10168.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10168.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5376	
5°	5340	506
15°	5046	1422
25°	4557	2097
35°	3863	2410
45°	2967	2282
55°	1467	1299
65°	89	138
75°	9	10
85°	5	5
90°	0	

TEST NUMBER: P866996

CATALOG NUMBER: PRLX-2002-L-930-133L-L-X-X-BLAK-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5376.2
2.5°	5370.4
5°	5340.4
7.5°	5290.8
10°	5222.8
12.5°	5139.8
15°	5046.4
17.5°	4940.3
20°	4823.8
22.5°	4697.0
25°	4557.4
27.5°	4407.5
30°	4236.8
32.5°	4056.9
35°	3863.2
37.5°	3653.3
40°	3433.1
42.5°	3210.5
45°	2967.2
47.5°	2714.6
50°	2458.6
52.5°	2075.7
55°	1466.9
57.5°	875.3
60°	454.4
62.5°	227.2
65°	88.8
67.5°	17.3
70°	11.5
72.5°	10.4
75°	9.2
77.5°	8.1
80°	8.1
82.5°	5.8
85°	4.6
87.5°	2.3
90°	0.0



TEST NUMBER: P866996

CATALOG NUMBER: PRLX-2002-L-930-133L-L-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	17.28	18.65	17.65	18.96	19.28	17.28	18.65	17.65	18.96	19.28
	3H	17.16	18.36	17.54	18.68	19.05	17.16	18.36	17.54	18.68	19.05
	4H	17.09	18.20	17.49	18.55	18.93	17.09	18.20	17.49	18.55	18.93
	6H	17.02	18.03	17.43	18.40	18.79	17.02	18.03	17.43	18.40	18.79
	8H	16.97	17.93	17.40	18.32	18.73	16.97	17.93	17.40	18.32	18.73
	12H	16.93	17.85	17.37	18.23	18.66	16.93	17.85	17.37	18.23	18.66
4H	2H	17.11	18.22	17.51	18.57	18.95	17.11	18.22	17.51	18.57	18.95
	3H	16.99	17.88	17.40	18.28	18.68	16.99	17.88	17.40	18.28	18.68
	4H	16.90	17.69	17.34	18.11	18.55	16.90	17.69	17.34	18.11	18.55
	6H	16.82	17.50	17.29	17.95	18.42	16.82	17.50	17.29	17.95	18.42
	8H	16.77	17.40	17.24	17.85	18.32	16.77	17.40	17.24	17.85	18.32
	12H	16.72	17.28	17.21	17.76	18.24	16.72	17.28	17.21	17.76	18.24
8H	4H	16.76	17.40	17.23	17.85	18.32	16.76	17.40	17.23	17.85	18.32
	6H	16.66	17.18	17.16	17.68	18.16	16.66	17.18	17.16	17.68	18.16
	8H	16.59	17.07	17.11	17.58	18.07	16.59	17.07	17.11	17.58	18.07
	12H	16.54	16.97	17.06	17.46	18.03	16.54	16.97	17.06	17.46	18.03
12H	4H	16.72	17.28	17.20	17.76	18.23	16.72	17.28	17.20	17.76	18.23
	6H	16.59	17.07	17.11	17.58	18.07	16.59	17.07	17.11	17.58	18.07
	8H	16.54	16.97	17.05	17.46	18.03	16.54	16.97	17.05	17.46	18.03