

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: P866975

Luminaire Tested: PRLX-2002-L-927-83L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-927-83L-L-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

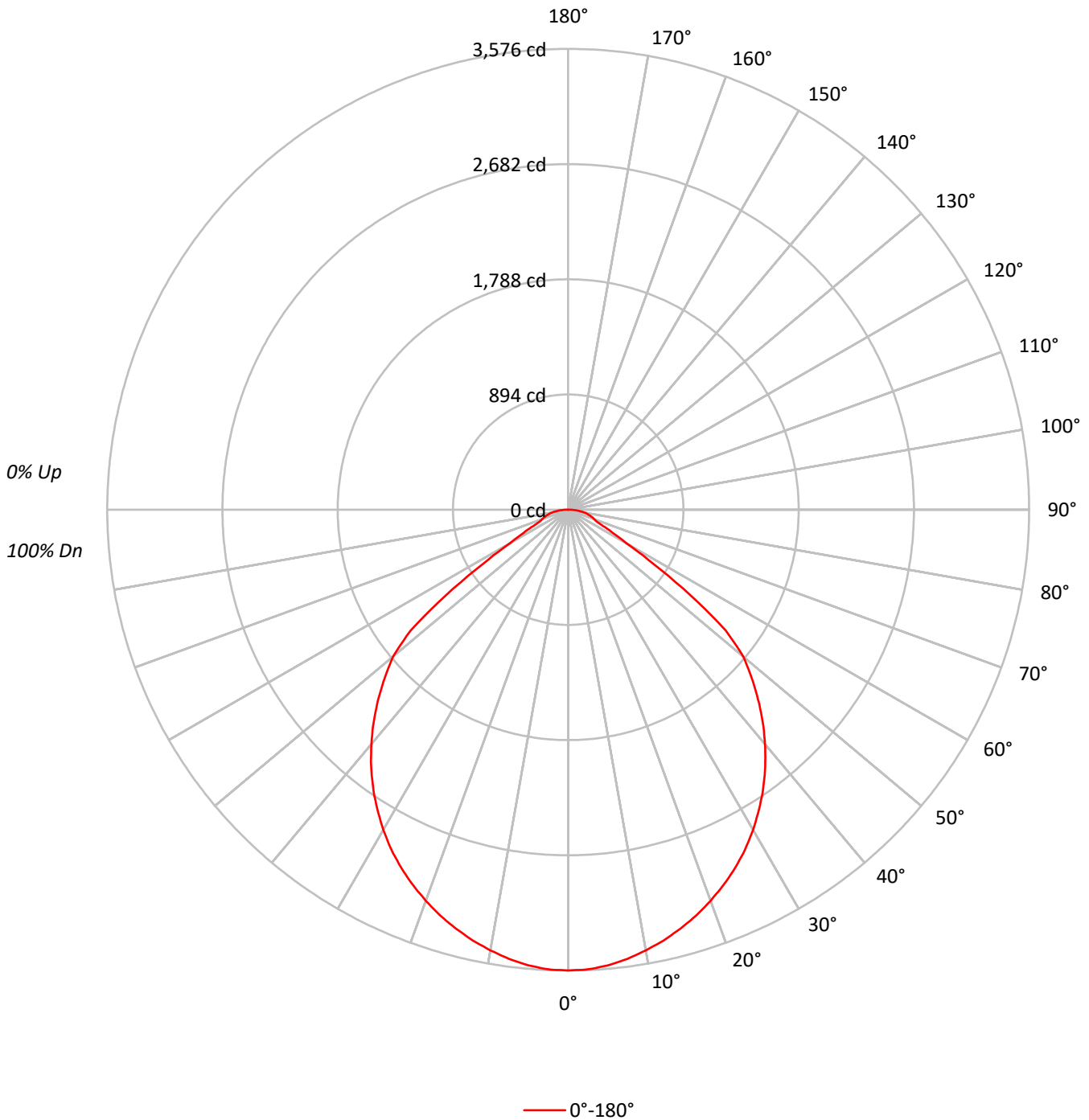
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7552.9 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3  
Luminous Opening: Circular (Dia: 1.67' 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: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P866975

CATALOG NUMBER: PRLX-2002-L-927-83L-L-X-X-WHHR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866975

CATALOG NUMBER: PRLX-2002-L-927-83L-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	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

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

	0°
0°	17642
5°	17576
10°	17395
15°	17185
20°	16953
25°	16690
30°	16336
35°	15891
40°	15297
45°	14540
50°	13605
55°	9965
60°	5208
65°	3471
70°	3103
75°	3298
80°	3606
85°	3974

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14540 cd/sqm

TEST NUMBER: P866975

CATALOG NUMBER: PRLX-2002-L-927-83L-L-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.3	4.5
10°-20°	948.9	12.6
20°-30°	1411.2	18.7
30°-40°	1647.2	21.8
40°-50°	1604.8	21.2
50°-60°	1028.1	13.6
60°-70°	320.1	4.2
70°-80°	182.4	2.4
80°-90°	73.8	1.0
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°	2696.4	35.7
0°-40°	4343.7	57.5
0°-60°	6976.6	92.4
0°-90°	7552.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7552.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3576	
5°	3549	336
15°	3364	949
25°	3066	1411
35°	2638	1647
45°	2084	1605
55°	1158	1028
65°	297	320
75°	173	182
85°	70	74
90°	0	

TEST NUMBER: P866975

CATALOG NUMBER: PRLX-2002-L-927-83L-L-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3575.7
2.5°	3570.3
5°	3548.9
7.5°	3515.5
10°	3472.1
12.5°	3423.3
15°	3364.5
17.5°	3301.7
20°	3228.9
22.5°	3150.7
25°	3065.9
27.5°	2972.4
30°	2867.5
32.5°	2755.9
35°	2638.3
37.5°	2511.4
40°	2375.1
42.5°	2234.1
45°	2083.8
47.5°	1930.1
50°	1772.5
52.5°	1542.6
55°	1158.5
57.5°	784.3
60°	527.8
62.5°	393.5
65°	297.3
67.5°	235.8
70°	215.1
72.5°	195.8
75°	173.0
77.5°	151.0
80°	126.9
82.5°	100.2
85°	70.2
87.5°	37.4
90°	0.0



TEST NUMBER: P866975  
 CATALOG NUMBER: PRLX-2002-L-927-83L-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	17.52	18.98	17.89	19.29	19.60	17.52	18.98	17.89	19.29	19.60
	3H	17.94	19.23	18.32	19.56	19.92	17.94	19.23	18.32	19.56	19.92
	4H	18.22	19.43	18.62	19.78	20.16	18.22	19.43	18.62	19.78	20.16
	6H	18.54	19.65	18.95	20.02	20.41	18.54	19.65	18.95	20.02	20.41
	8H	18.69	19.74	19.12	20.13	20.53	18.69	19.74	19.12	20.13	20.53
	12H	18.81	19.82	19.24	20.20	20.63	18.81	19.82	19.24	20.20	20.63
4H	2H	17.58	18.78	17.98	19.13	19.51	17.58	18.78	17.98	19.13	19.51
	3H	18.20	19.18	18.61	19.58	19.98	18.20	19.18	18.61	19.58	19.98
	4H	18.62	19.50	19.05	19.92	20.36	18.62	19.50	19.05	19.92	20.36
	6H	19.11	19.87	19.57	20.32	20.78	19.11	19.87	19.57	20.32	20.78
	8H	19.33	20.05	19.80	20.49	20.96	19.33	20.05	19.80	20.49	20.96
	12H	19.53	20.17	20.02	20.65	21.12	19.53	20.17	20.02	20.65	21.12
8H	4H	18.76	19.48	19.23	19.92	20.39	18.76	19.48	19.23	19.92	20.39
	6H	19.40	19.99	19.89	20.48	20.96	19.40	19.99	19.89	20.48	20.96
	8H	19.71	20.25	20.23	20.76	21.25	19.71	20.25	20.23	20.76	21.25
	12H	20.02	20.50	20.53	21.00	21.56	20.02	20.50	20.53	21.00	21.56
12H	4H	18.78	19.41	19.26	19.90	20.37	18.78	19.41	19.26	19.90	20.37
	6H	19.44	19.98	19.96	20.49	20.98	19.44	19.98	19.96	20.49	20.98
	8H	19.83	20.31	20.34	20.80	21.37	19.83	20.31	20.34	20.80	21.37