

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: P866170

Luminaire Tested: PRLX-2002-M-927-25L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866170  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-927-25L-L-U-S-X-X-GREY-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

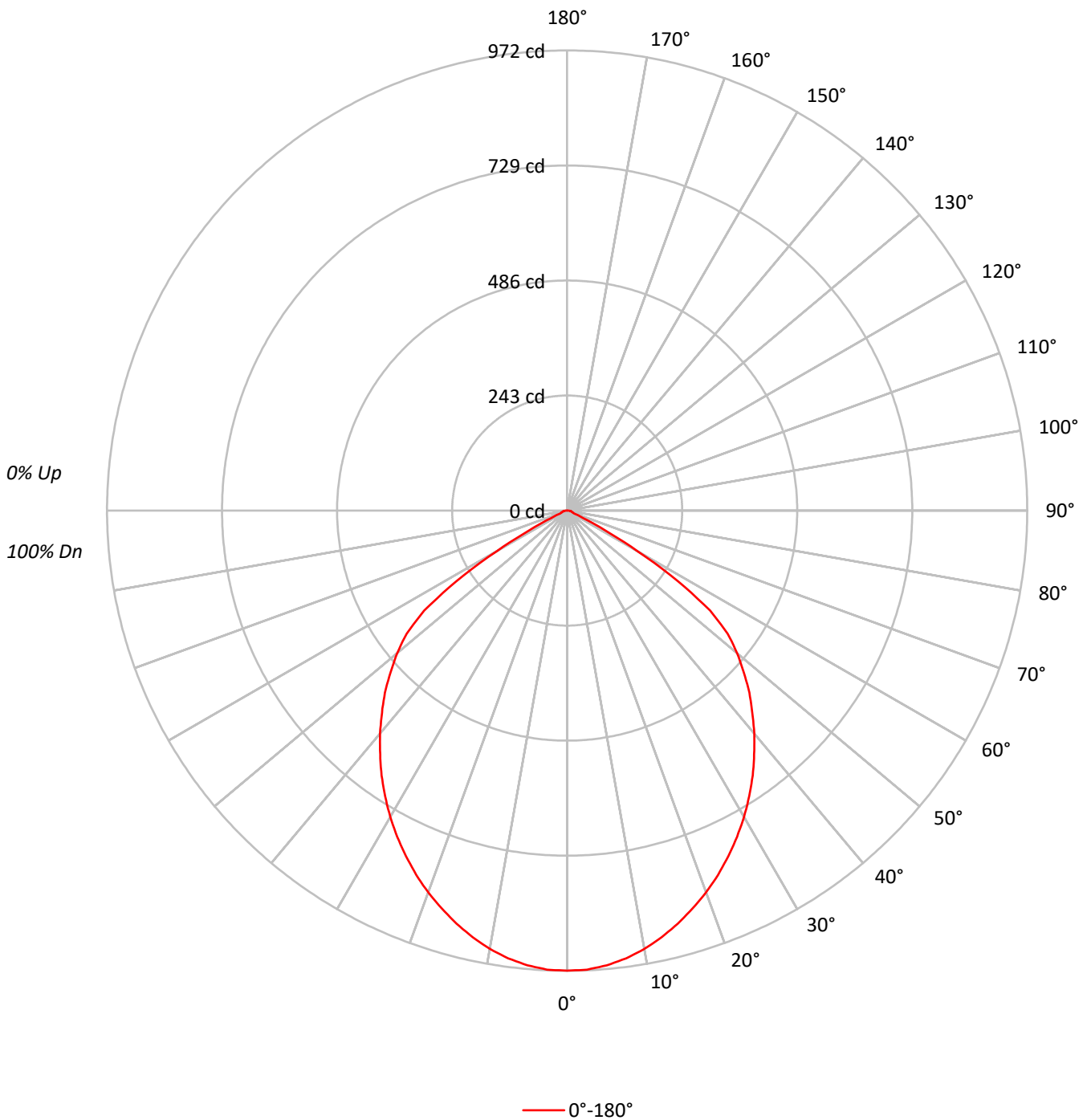
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1946.2 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.7  
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

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### Luminous Intensity Polar Plot





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**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	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	64	56	51	62	55	50	60	54	50	59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32

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

	0°
0°	7731
5°	7700
10°	7595
15°	7440
20°	7266
25°	7072
30°	6864
35°	6635
40°	6384
45°	6123
50°	5802
55°	5111
60°	2726
65°	717
70°	295
75°	332
80°	376
85°	466

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6123 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.3	4.7
10°-20°	254.4	13.1
20°-30°	370.9	19.1
30°-40°	426.9	21.9
40°-50°	418.8	21.5
50°-60°	310.2	15.9
60°-70°	57.3	2.9
70°-80°	11.3	0.6
80°-90°	5.1	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°	716.5	36.8
0°-40°	1143.4	58.8
0°-60°	1872.5	96.2
0°-90°	1946.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1946.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	972	
5°	964	91
15°	903	254
25°	806	371
35°	683	427
45°	544	419
55°	368	310
65°	38	57
75°	11	11
85°	5	5
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	971.8
2.5°	970.5
5°	964.2
7.5°	954.0
10°	940.1
12.5°	922.9
15°	903.3
17.5°	881.1
20°	858.2
22.5°	832.9
25°	805.6
27.5°	777.0
30°	747.2
32.5°	715.5
35°	683.2
37.5°	648.9
40°	614.7
42.5°	579.1
45°	544.2
47.5°	506.2
50°	468.8
52.5°	427.5
55°	368.5
57.5°	278.5
60°	171.3
62.5°	88.2
65°	38.1
67.5°	16.5
70°	12.7
72.5°	12.1
75°	10.8
77.5°	9.5
80°	8.2
82.5°	7.0
85°	5.1
87.5°	2.5
90°	0.0

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**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	16.70	18.13	17.07	18.44	18.76	16.70	18.13	17.07	18.44	18.76
	3H	16.60	17.86	16.98	18.19	18.55	16.60	17.86	16.98	18.19	18.55
	4H	16.55	17.72	16.95	18.07	18.45	16.55	17.72	16.95	18.07	18.45
	6H	16.49	17.57	16.91	17.93	18.33	16.49	17.57	16.91	17.93	18.33
	8H	16.46	17.48	16.89	17.87	18.27	16.46	17.48	16.89	17.87	18.27
	12H	16.43	17.41	16.87	17.79	18.22	16.43	17.41	16.87	17.79	18.22
4H	2H	16.55	17.72	16.96	18.07	18.46	16.55	17.72	16.96	18.07	18.46
	3H	16.47	17.41	16.88	17.81	18.21	16.47	17.41	16.88	17.81	18.21
	4H	16.41	17.24	16.84	17.66	18.11	16.41	17.24	16.84	17.66	18.11
	6H	16.36	17.08	16.82	17.53	17.99	16.36	17.08	16.82	17.53	17.99
	8H	16.33	17.00	16.79	17.45	17.92	16.33	17.00	16.79	17.45	17.92
	12H	16.30	16.90	16.79	17.38	17.86	16.30	16.90	16.79	17.38	17.86
8H	4H	16.29	16.97	16.76	17.41	17.88	16.29	16.97	16.76	17.41	17.88
	6H	16.23	16.79	16.73	17.28	17.76	16.23	16.79	16.73	17.28	17.76
	8H	16.19	16.70	16.71	17.22	17.71	16.19	16.70	16.71	17.22	17.71
	12H	16.18	16.63	16.69	17.13	17.70	16.18	16.63	16.69	17.13	17.70
12H	4H	16.25	16.85	16.73	17.33	17.80	16.25	16.85	16.73	17.33	17.80
	6H	16.17	16.68	16.69	17.19	17.68	16.17	16.68	16.69	17.19	17.68
	8H	16.16	16.61	16.67	17.11	17.68	16.16	16.61	16.67	17.11	17.68