

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: P865419

Luminaire Tested: PRLX-2001-S-927-05L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865419  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-927-05L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

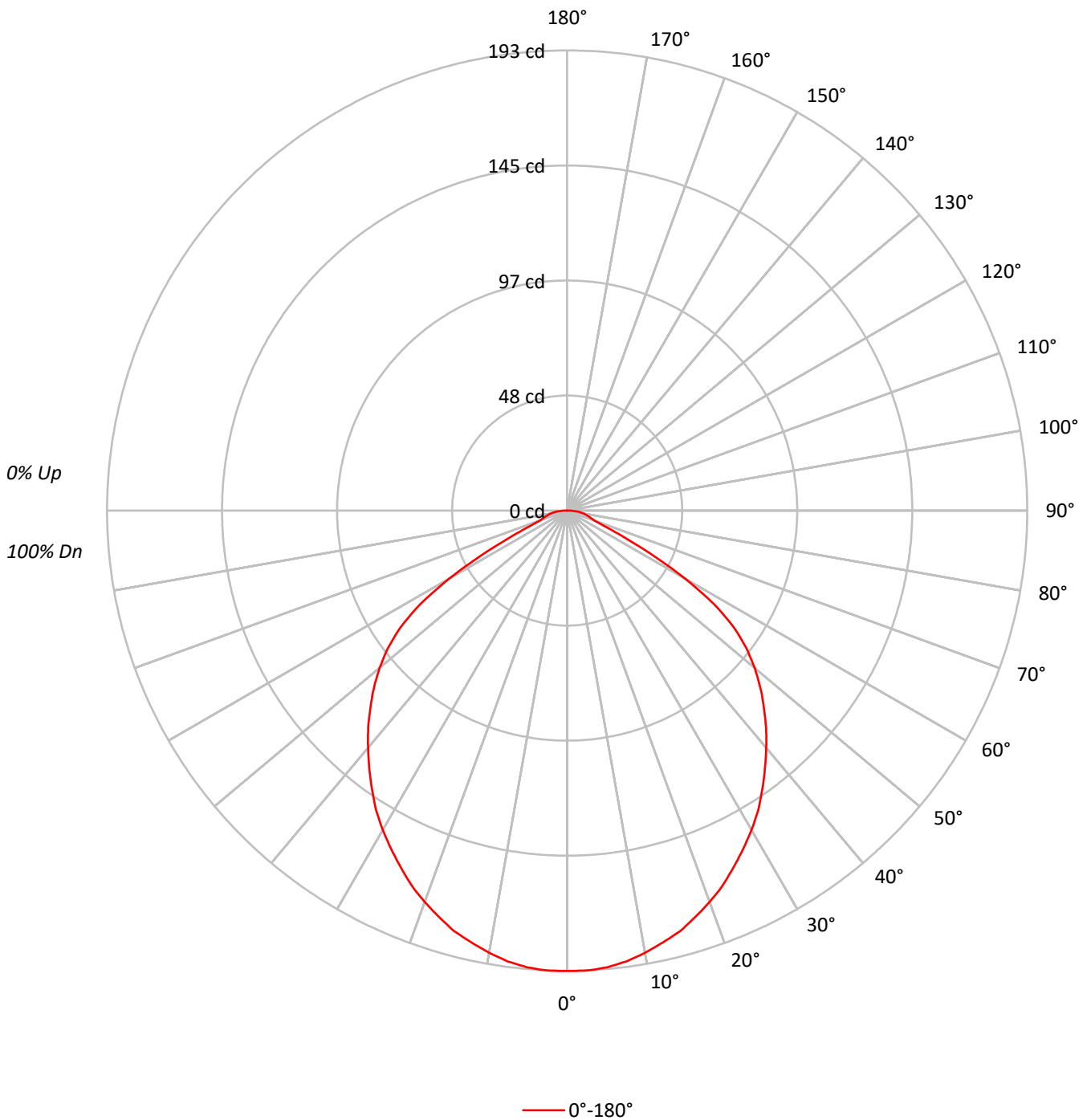
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 441.8 lumens  
Efficiency: N/A  
Efficacy: 71.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.2  
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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

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

	0°
0°	3149
5°	3148
10°	3119
15°	3085
20°	3032
25°	2971
30°	2914
35°	2841
40°	2766
45°	2692
50°	2606
55°	2423
60°	1866
65°	988
70°	572
75°	580
80°	639
85°	749

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2692 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.2	4.1
10°-20°	51.4	11.6
20°-30°	76.1	17.2
30°-40°	89.3	20.2
40°-50°	90.0	20.4
50°-60°	74.3	16.8
60°-70°	28.6	6.5
70°-80°	9.8	2.2
80°-90°	4.1	0.9
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°	145.7	33.0
0°-40°	235.0	53.2
0°-60°	399.4	90.4
0°-90°	441.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	441.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	193	
5°	192	18
15°	183	51
25°	165	76
35°	143	89
45°	117	90
55°	85	74
65°	26	29
75°	9	10
85°	4	4
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	193.1
2.5°	193.1
5°	192.3
7.5°	190.7
10°	188.3
12.5°	185.5
15°	182.7
17.5°	178.7
20°	174.7
22.5°	170.3
25°	165.1
27.5°	159.9
30°	154.7
32.5°	149.1
35°	142.7
37.5°	136.3
40°	129.9
42.5°	123.5
45°	116.7
47.5°	109.9
50°	102.7
52.5°	94.7
55°	85.2
57.5°	73.2
60°	57.2
62.5°	40.0
65°	25.6
67.5°	16.4
70°	12.0
72.5°	10.4
75°	9.2
77.5°	8.0
80°	6.8
82.5°	5.6
85°	4.0
87.5°	2.0
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	15.04	16.56	15.41	16.87	17.18	15.04	16.56	15.41	16.87	17.18
	3H	15.18	16.53	15.56	16.86	17.22	15.18	16.53	15.56	16.86	17.22
	4H	15.25	16.50	15.65	16.85	17.23	15.25	16.50	15.65	16.85	17.23
	6H	15.33	16.49	15.74	16.85	17.25	15.33	16.49	15.74	16.85	17.25
	8H	15.37	16.47	15.80	16.86	17.26	15.37	16.47	15.80	16.86	17.26
	12H	15.41	16.47	15.84	16.85	17.28	15.41	16.47	15.84	16.85	17.28
4H	2H	15.08	16.34	15.48	16.69	17.07	15.08	16.34	15.48	16.69	17.07
	3H	15.30	16.33	15.71	16.73	17.13	15.30	16.33	15.71	16.73	17.13
	4H	15.41	16.34	15.85	16.75	17.19	15.41	16.34	15.85	16.75	17.19
	6H	15.58	16.38	16.04	16.83	17.29	15.58	16.38	16.04	16.83	17.29
	8H	15.67	16.41	16.13	16.86	17.33	15.67	16.41	16.13	16.86	17.33
	12H	15.76	16.42	16.24	16.90	17.37	15.76	16.42	16.24	16.90	17.37
8H	4H	15.41	16.16	15.88	16.60	17.07	15.41	16.16	15.88	16.60	17.07
	6H	15.65	16.26	16.14	16.76	17.23	15.65	16.26	16.14	16.76	17.23
	8H	15.79	16.34	16.30	16.85	17.34	15.79	16.34	16.30	16.85	17.34
	12H	15.95	16.44	16.46	16.94	17.50	15.95	16.44	16.46	16.94	17.50
12H	4H	15.40	16.06	15.88	16.54	17.01	15.40	16.06	15.88	16.54	17.01
	6H	15.64	16.20	16.16	16.71	17.20	15.64	16.20	16.16	16.71	17.20
	8H	15.83	16.33	16.34	16.82	17.39	15.83	16.33	16.34	16.82	17.39