

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: P866675

Luminaire Tested: PRLX-2001-L-927-117L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866675  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-927-117L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

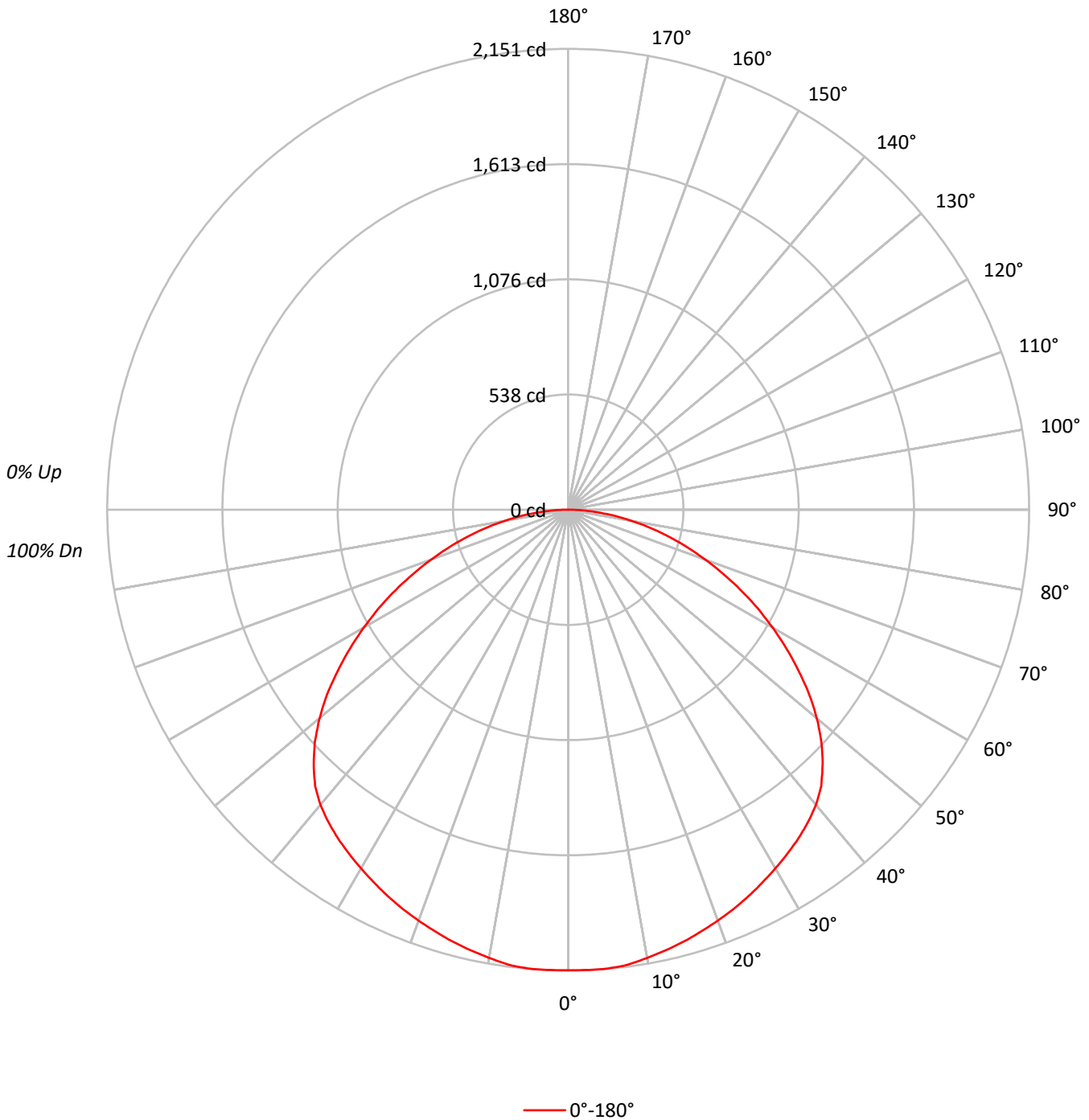
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6900.7 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
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: 0.333 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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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

	0°
0°	11752
5°	11797
10°	11792
15°	11810
20°	11877
25°	12008
30°	12204
35°	12500
40°	12836
45°	12982
50°	12880
55°	12514
60°	12040
65°	11493
70°	10877
75°	10219
80°	9511
85°	8499

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12982 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.4	3.0
10°-20°	589.8	8.5
20°-30°	919.3	13.3
30°-40°	1173.3	17.0
40°-50°	1291.5	18.7
50°-60°	1173.4	17.0
60°-70°	880.3	12.8
70°-80°	514.6	7.5
80°-90°	154.0	2.2
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°	1713.6	24.8
0°-40°	2886.9	41.8
0°-60°	5351.9	77.6
0°-90°	6900.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6900.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2150	
5°	2150	204
15°	2087	590
25°	1991	919
35°	1873	1173
45°	1679	1292
55°	1313	1173
65°	888	880
75°	484	515
85°	136	154
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2149.7
2.5°	2150.7
5°	2149.7
7.5°	2142.2
10°	2124.3
12.5°	2106.4
15°	2086.7
17.5°	2064.1
20°	2041.5
22.5°	2017.0
25°	1990.7
27.5°	1962.4
30°	1933.3
32.5°	1904.1
35°	1873.0
37.5°	1838.2
40°	1798.7
42.5°	1747.8
45°	1679.1
47.5°	1602.9
50°	1514.4
52.5°	1418.4
55°	1313.0
57.5°	1208.5
60°	1101.2
62.5°	996.7
65°	888.5
67.5°	782.1
70°	680.5
72.5°	582.6
75°	483.8
77.5°	393.4
80°	302.1
82.5°	216.5
85°	135.5
87.5°	63.1
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	21.04	22.71	21.40	23.03	23.34	21.04	22.71	21.40	23.03	23.34
	3H	22.81	24.33	23.19	24.66	25.02	22.81	24.33	23.19	24.66	25.02
	4H	23.50	24.93	23.89	25.28	25.65	23.50	24.93	23.89	25.28	25.65
	6H	24.03	25.36	24.44	25.72	26.11	24.03	25.36	24.44	25.72	26.11
	8H	24.21	25.48	24.64	25.87	26.27	24.21	25.48	24.64	25.87	26.27
	12H	24.34	25.56	24.77	25.94	26.37	24.34	25.56	24.77	25.94	26.37
4H	2H	21.67	23.10	22.06	23.45	23.82	21.67	23.10	22.06	23.45	23.82
	3H	23.67	24.87	24.08	25.27	25.67	23.67	24.87	24.08	25.27	25.67
	4H	24.49	25.58	24.92	25.99	26.43	24.49	25.58	24.92	25.99	26.43
	6H	25.16	26.11	25.61	26.55	27.01	25.16	26.11	25.61	26.55	27.01
	8H	25.39	26.29	25.85	26.73	27.19	25.39	26.29	25.85	26.73	27.19
	12H	25.57	26.38	26.05	26.85	27.32	25.57	26.38	26.05	26.85	27.32
8H	4H	24.82	25.71	25.28	26.16	26.62	24.82	25.71	25.28	26.16	26.62
	6H	25.62	26.37	26.11	26.85	27.33	25.62	26.37	26.11	26.85	27.33
	8H	25.94	26.61	26.44	27.11	27.60	25.94	26.61	26.44	27.11	27.60
	12H	26.20	26.79	26.70	27.28	27.84	26.20	26.79	26.70	27.28	27.84
12H	4H	24.86	25.67	25.34	26.14	26.61	24.86	25.67	25.34	26.14	26.61
	6H	25.69	26.36	26.19	26.87	27.35	25.69	26.36	26.19	26.87	27.35
	8H	26.07	26.66	26.57	27.15	27.71	26.07	26.66	26.57	27.15	27.71