

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: P866731

Luminaire Tested: PRLX-2001-L-930-100L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866731  
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-930-100L-G-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

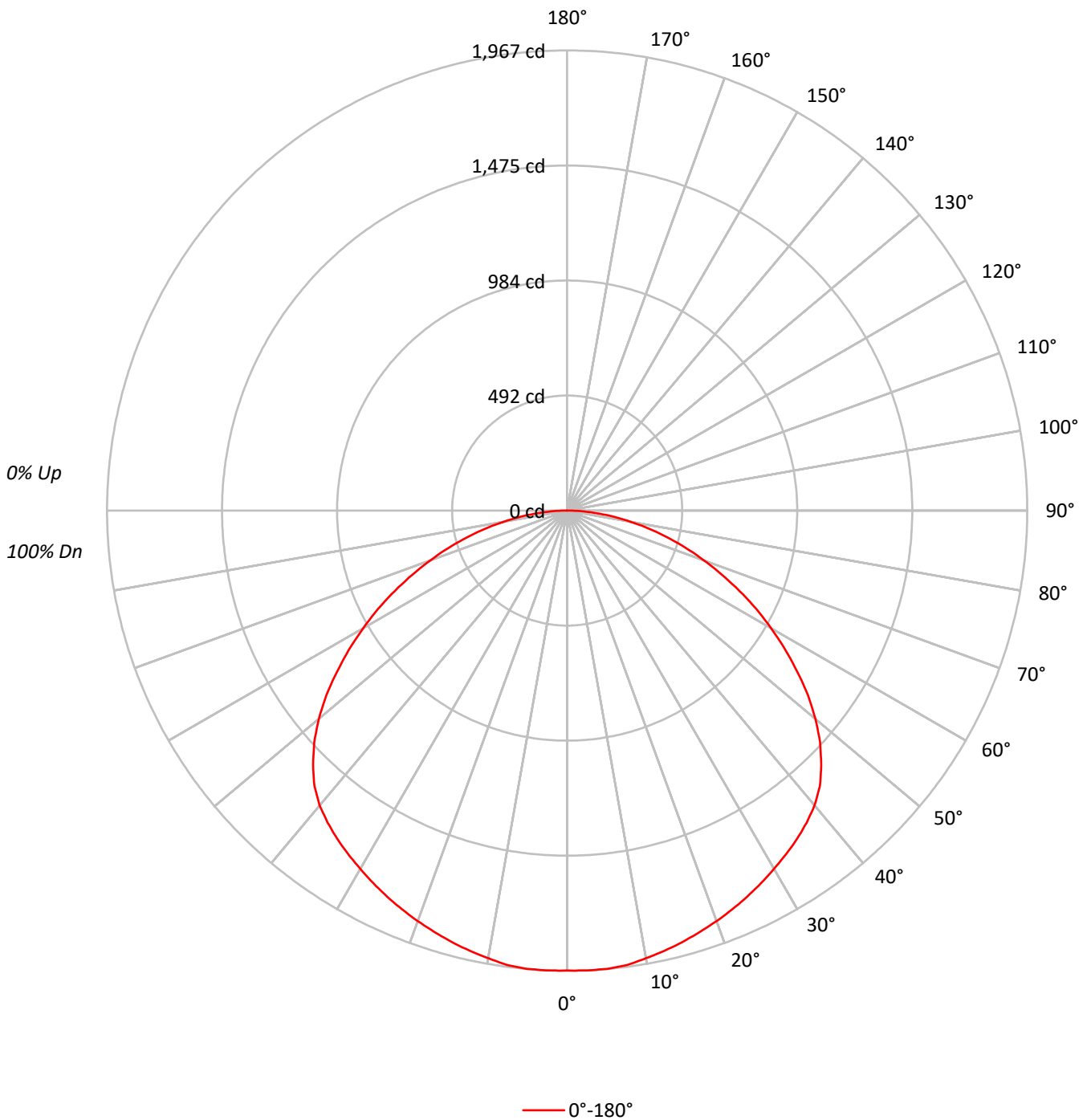
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6312.4 lumens  
Efficiency: N/A  
Efficacy: 79.5 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): 79.4  
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°	10750
5°	10791
10°	10787
15°	10803
20°	10864
25°	10984
30°	11163
35°	11434
40°	11742
45°	11875
50°	11782
55°	11447
60°	11014
65°	10513
70°	9950
75°	9347
80°	8702
85°	7778

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11875 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.0	3.0
10°-20°	539.5	8.5
20°-30°	840.9	13.3
30°-40°	1073.3	17.0
40°-50°	1181.4	18.7
50°-60°	1073.4	17.0
60°-70°	805.3	12.8
70°-80°	470.7	7.5
80°-90°	140.9	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°	1567.5	24.8
0°-40°	2640.7	41.8
0°-60°	4895.5	77.6
0°-90°	6312.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6312.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1966	
5°	1966	187
15°	1909	540
25°	1821	841
35°	1713	1073
45°	1536	1181
55°	1201	1073
65°	813	805
75°	442	471
85°	124	141
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1966.4
2.5°	1967.3
5°	1966.4
7.5°	1959.6
10°	1943.2
12.5°	1926.8
15°	1908.8
17.5°	1888.1
20°	1867.4
22.5°	1845.0
25°	1820.9
27.5°	1795.1
30°	1768.4
32.5°	1741.7
35°	1713.3
37.5°	1681.5
40°	1645.3
42.5°	1598.8
45°	1536.0
47.5°	1466.2
50°	1385.3
52.5°	1297.5
55°	1201.0
57.5°	1105.5
60°	1007.3
62.5°	911.8
65°	812.7
67.5°	715.5
70°	622.5
72.5°	532.9
75°	442.5
77.5°	359.9
80°	276.4
82.5°	198.0
85°	124.0
87.5°	57.7
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	20.73	22.40	21.09	22.72	23.03	20.73	22.40	21.09	22.72	23.03
	3H	22.50	24.02	22.88	24.35	24.71	22.50	24.02	22.88	24.35	24.71
	4H	23.19	24.62	23.58	24.97	25.34	23.19	24.62	23.58	24.97	25.34
	6H	23.72	25.05	24.13	25.41	25.80	23.72	25.05	24.13	25.41	25.80
	8H	23.90	25.17	24.33	25.56	25.96	23.90	25.17	24.33	25.56	25.96
	12H	24.03	25.25	24.46	25.63	26.06	24.03	25.25	24.46	25.63	26.06
4H	2H	21.36	22.79	21.75	23.14	23.51	21.36	22.79	21.75	23.14	23.51
	3H	23.36	24.56	23.77	24.96	25.36	23.36	24.56	23.77	24.96	25.36
	4H	24.18	25.27	24.61	25.68	26.12	24.18	25.27	24.61	25.68	26.12
	6H	24.85	25.81	25.30	26.24	26.70	24.85	25.81	25.30	26.24	26.70
	8H	25.08	25.98	25.54	26.42	26.89	25.08	25.98	25.54	26.42	26.89
	12H	25.26	26.07	25.74	26.54	27.01	25.26	26.07	25.74	26.54	27.01
8H	4H	24.51	25.40	24.97	25.85	26.31	24.51	25.40	24.97	25.85	26.31
	6H	25.31	26.06	25.80	26.54	27.02	25.31	26.06	25.80	26.54	27.02
	8H	25.63	26.30	26.13	26.80	27.29	25.63	26.30	26.13	26.80	27.29
	12H	25.89	26.48	26.39	26.97	27.53	25.89	26.48	26.39	26.97	27.53
12H	4H	24.55	25.36	25.03	25.83	26.30	24.55	25.36	25.03	25.83	26.30
	6H	25.38	26.05	25.89	26.56	27.04	25.38	26.05	25.89	26.56	27.04
	8H	25.76	26.35	26.26	26.84	27.40	25.76	26.35	26.26	26.84	27.40