

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: P867259

Luminaire Tested: PRLX-2004-L-930-133L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867259  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-L-930-133L-G-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

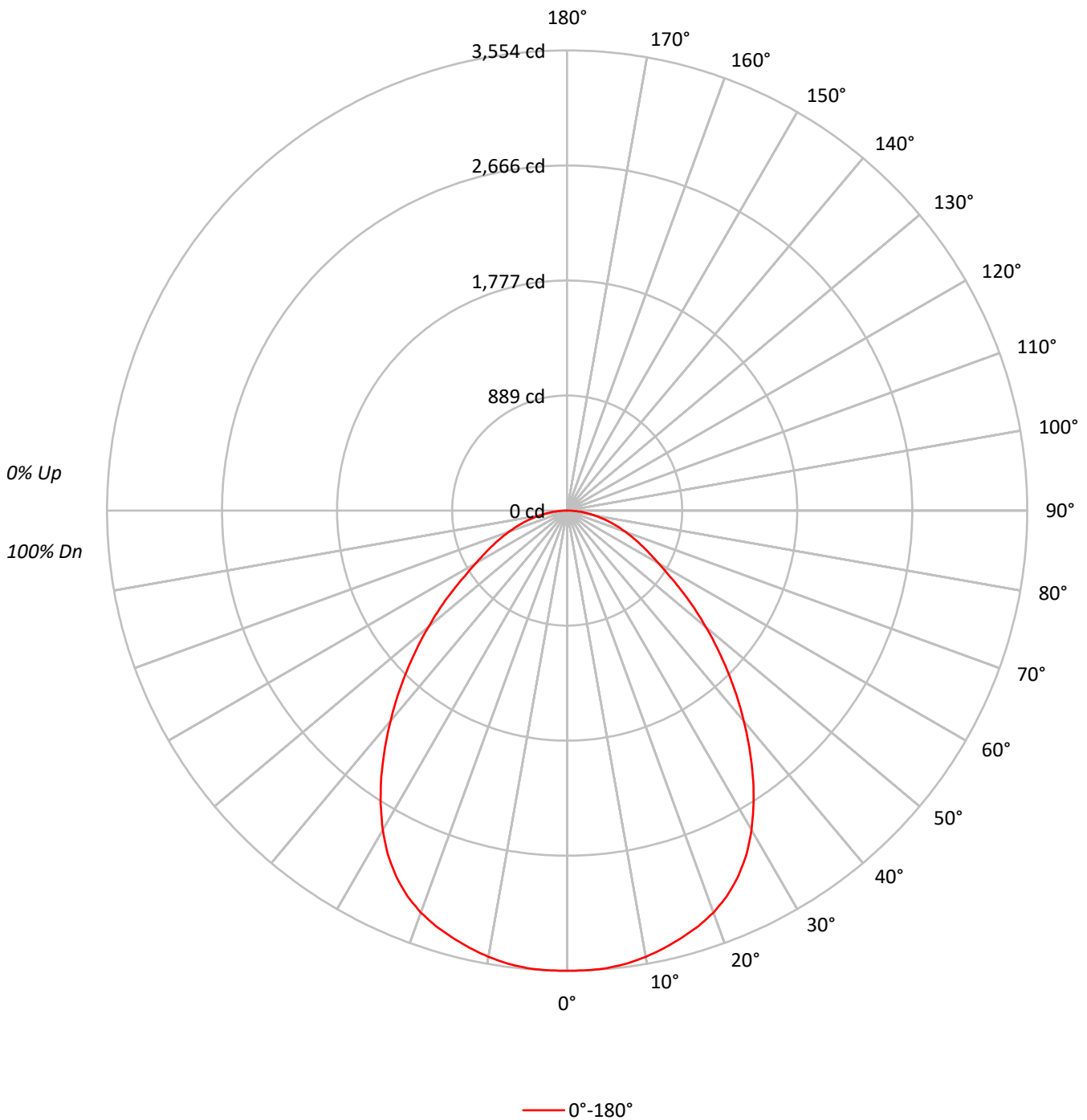
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7716.1 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 111.8  
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	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80		85	81	78		82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68		76	71	67		74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60		69	63	59		67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52		63	57	52		61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47		57	51	46		56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42		53	46	42		51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38		49	42	38		47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34		45	39	34		44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32		42	36	31		41	35	31	30

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

	0°
0°	17535
5°	17568
10°	17534
15°	17453
20°	17347
25°	16994
30°	16228
35°	15066
40°	13673
45°	12206
50°	10728
55°	9265
60°	8034
65°	7377
70°	6887
75°	6462
80°	6095
85°	5746

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12206 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.1	4.4
10°-20°	964.2	12.5
20°-30°	1431.0	18.5
30°-40°	1558.5	20.2
40°-50°	1351.3	17.5
50°-60°	971.1	12.6
60°-70°	629.7	8.2
70°-80°	360.4	4.7
80°-90°	113.0	1.5
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°	2732.2	35.4
0°-40°	4290.7	55.6
0°-60°	6613.1	85.7
0°-90°	7716.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7716.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3554	
5°	3547	337
15°	3417	964
25°	3122	1431
35°	2501	1558
45°	1749	1351
55°	1077	971
65°	632	630
75°	339	360
85°	102	113
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3554.1
2.5°	3554.1
5°	3547.2
7.5°	3528.8
10°	3499.9
12.5°	3460.7
15°	3416.9
17.5°	3366.2
20°	3303.9
22.5°	3224.3
25°	3121.7
27.5°	2997.1
30°	2848.4
32.5°	2681.2
35°	2501.3
37.5°	2312.2
40°	2123.0
42.5°	1936.2
45°	1749.4
47.5°	1573.0
50°	1397.7
52.5°	1236.2
55°	1077.1
57.5°	932.9
60°	814.2
62.5°	717.3
65°	631.9
67.5°	551.2
70°	477.4
72.5°	405.9
75°	339.0
77.5°	275.6
80°	214.5
82.5°	156.8
85°	101.5
87.5°	49.6
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	18.70	20.20	19.07	20.52	20.83	18.70	20.20	19.07	20.52	20.83
	3H	20.22	21.56	20.59	21.89	22.25	20.22	21.56	20.59	21.89	22.25
	4H	20.82	22.08	21.22	22.43	22.80	20.82	22.08	21.22	22.43	22.80
	6H	21.29	22.46	21.71	22.83	23.22	21.29	22.46	21.71	22.83	23.22
	8H	21.46	22.57	21.89	22.96	23.36	21.46	22.57	21.89	22.96	23.36
	12H	21.59	22.65	22.02	23.03	23.46	21.59	22.65	22.02	23.03	23.46
4H	2H	19.20	20.47	19.60	20.81	21.19	19.20	20.47	19.60	20.81	21.19
	3H	20.96	22.00	21.37	22.40	22.81	20.96	22.00	21.37	22.40	22.81
	4H	21.69	22.64	22.13	23.05	23.49	21.69	22.64	22.13	23.05	23.49
	6H	22.31	23.13	22.77	23.57	24.03	22.31	23.13	22.77	23.57	24.03
	8H	22.53	23.30	23.00	23.74	24.21	22.53	23.30	23.00	23.74	24.21
	12H	22.71	23.39	23.19	23.87	24.34	22.71	23.39	23.19	23.87	24.34
8H	4H	21.97	22.74	22.43	23.18	23.65	21.97	22.74	22.43	23.18	23.65
	6H	22.72	23.35	23.21	23.84	24.32	22.72	23.35	23.21	23.84	24.32
	8H	23.02	23.59	23.54	24.10	24.59	23.02	23.59	23.54	24.10	24.59
	12H	23.28	23.79	23.79	24.28	24.85	23.28	23.79	23.79	24.28	24.85
12H	4H	22.00	22.68	22.48	23.16	23.63	22.00	22.68	22.48	23.16	23.63
	6H	22.77	23.35	23.29	23.86	24.34	22.77	23.35	23.29	23.86	24.34
	8H	23.14	23.65	23.65	24.14	24.70	23.14	23.65	23.65	24.14	24.70