

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: P867191

Luminaire Tested: PRLX-2004-L-927-133L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867191  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-L-927-133L-L-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

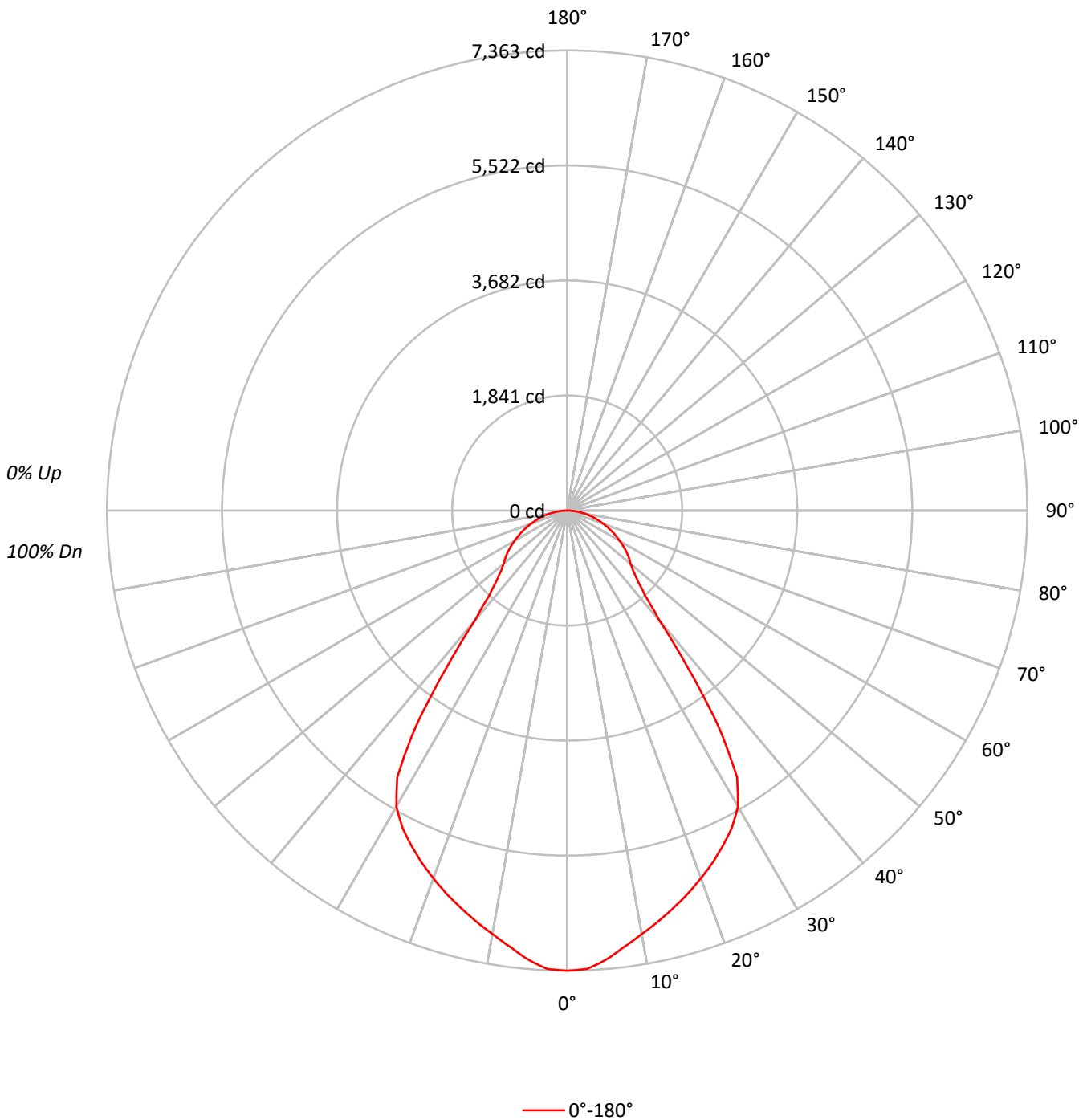
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11512.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05  
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	111	107	103	100	108	105	101	98	100	98	95		97	94	92		93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82		87	84	81		85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	89	79	71	66	87	77	70	65	75	69	64		73	68	63		71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58		67	61	57		65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37		47	41	37		46	41	37	35

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

	0°
0°	36330
5°	35716
10°	34476
15°	33614
20°	32866
25°	32159
30°	31143
35°	25499
40°	14806
45°	11197
50°	10176
55°	10003
60°	9646
65°	9260
70°	8893
75°	8506
80°	8146
85°	7812

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11197 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	677.3	5.9
10°-20°	1855.6	16.1
20°-30°	2717.5	23.6
30°-40°	2526.7	21.9
40°-50°	1287.3	11.2
50°-60°	1035.6	9.0
60°-70°	786.3	6.8
70°-80°	473.6	4.1
80°-90°	152.2	1.3
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°	5250.4	45.6
0°-40°	7777.1	67.6
0°-60°	10100.0	87.7
0°-90°	11512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11512.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7363	
5°	7211	677
15°	6581	1856
25°	5907	2718
35°	4234	2527
45°	1605	1287
55°	1163	1036
65°	793	786
75°	446	474
85°	138	152
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7363.4
2.5°	7341.8
5°	7211.4
7.5°	7036.8
10°	6881.6
12.5°	6733.9
15°	6580.9
17.5°	6425.7
20°	6259.7
22.5°	6091.6
25°	5907.3
27.5°	5713.3
30°	5466.5
32.5°	5060.1
35°	4233.5
37.5°	3177.3
40°	2298.9
42.5°	1848.4
45°	1604.8
47.5°	1433.4
50°	1325.7
52.5°	1248.1
55°	1162.9
57.5°	1068.1
60°	977.5
62.5°	883.8
65°	793.2
67.5°	703.8
70°	616.5
72.5°	531.3
75°	446.2
77.5°	366.4
80°	286.7
82.5°	212.3
85°	138.0
87.5°	65.7
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	18.46	19.82	18.83	20.13	20.44	18.46	19.82	18.83	20.13	20.44
	3H	20.26	21.47	20.64	21.80	22.17	20.26	21.47	20.64	21.80	22.17
	4H	20.97	22.10	21.37	22.45	22.84	20.97	22.10	21.37	22.45	22.84
	6H	21.53	22.58	21.94	22.94	23.34	21.53	22.58	21.94	22.94	23.34
	8H	21.73	22.72	22.16	23.11	23.52	21.73	22.72	22.16	23.11	23.52
	12H	21.87	22.83	22.30	23.21	23.64	21.87	22.83	22.30	23.21	23.64
4H	2H	19.05	20.18	19.45	20.53	20.92	19.05	20.18	19.45	20.53	20.92
	3H	21.07	22.01	21.48	22.42	22.82	21.07	22.01	21.48	22.42	22.82
	4H	21.91	22.76	22.34	23.18	23.62	21.91	22.76	22.34	23.18	23.62
	6H	22.61	23.35	23.07	23.79	24.26	22.61	23.35	23.07	23.79	24.26
	8H	22.86	23.55	23.33	24.00	24.47	22.86	23.55	23.33	24.00	24.47
	12H	23.06	23.67	23.54	24.15	24.63	23.06	23.67	23.54	24.15	24.63
8H	4H	22.21	22.90	22.68	23.35	23.82	22.21	22.90	22.68	23.35	23.82
	6H	23.06	23.62	23.56	24.12	24.60	23.06	23.62	23.56	24.12	24.60
	8H	23.40	23.91	23.92	24.42	24.91	23.40	23.91	23.92	24.42	24.91
	12H	23.70	24.14	24.21	24.64	25.21	23.70	24.14	24.21	24.64	25.21
12H	4H	22.24	22.85	22.73	23.34	23.81	22.24	22.85	22.73	23.34	23.81
	6H	23.12	23.63	23.64	24.14	24.63	23.12	23.63	23.64	24.14	24.63
	8H	23.53	23.98	24.05	24.47	25.04	23.53	23.98	24.05	24.47	25.04