

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: P867199

Luminaire Tested: PRLX-2004-L-927-15L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867199  
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-927-15L-L-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

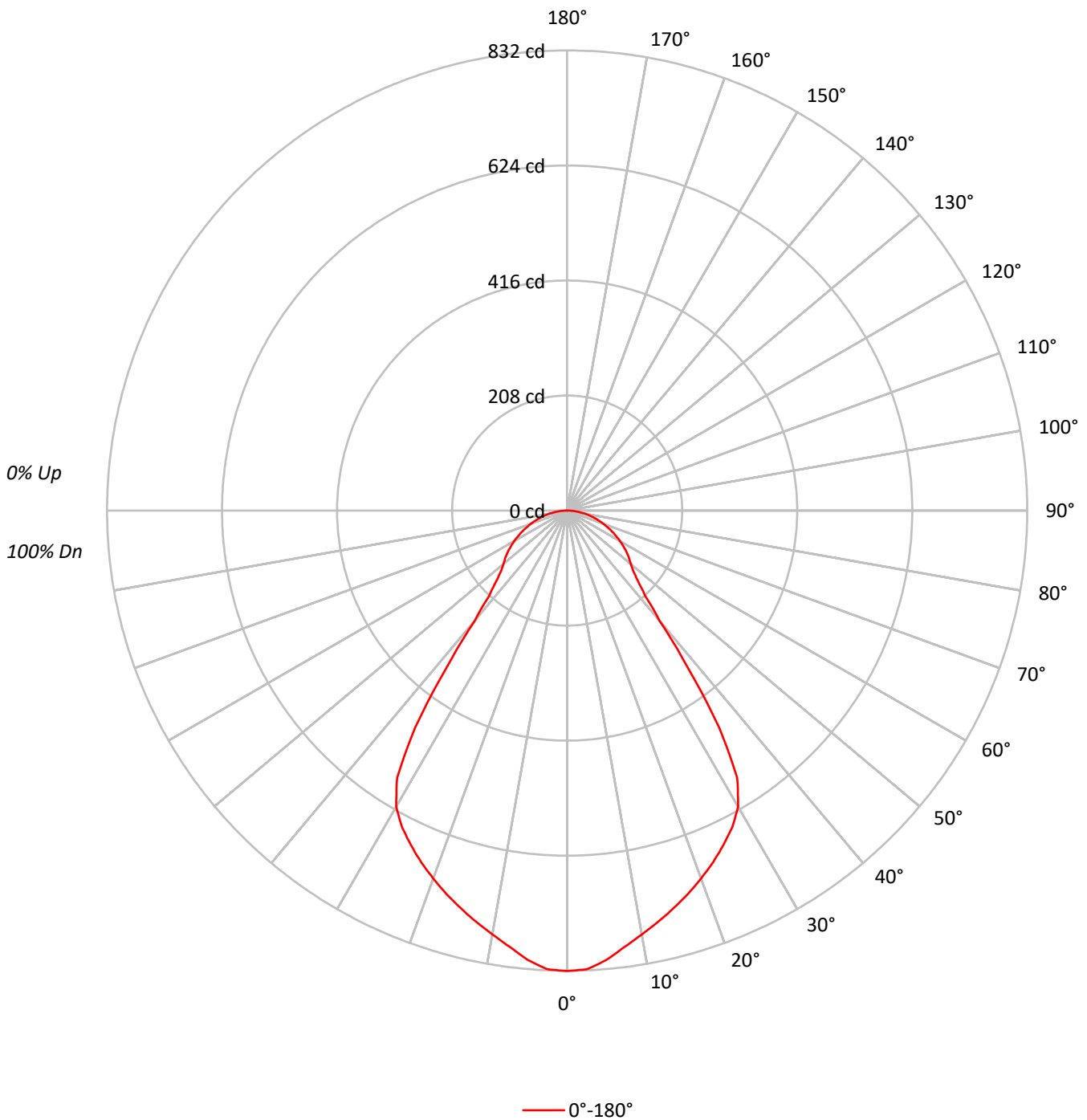
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1301.6 lumens  
Efficiency: N/A  
Efficacy: 79.4 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): 16.4  
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: 0.5 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°	4107
5°	4038
10°	3898
15°	3801
20°	3716
25°	3636
30°	3521
35°	2883
40°	1674
45°	1266
50°	1151
55°	1131
60°	1090
65°	1047
70°	1005
75°	961
80°	921
85°	883

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1266 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.6	5.9
10°-20°	209.8	16.1
20°-30°	307.3	23.6
30°-40°	285.7	21.9
40°-50°	145.5	11.2
50°-60°	117.1	9.0
60°-70°	88.9	6.8
70°-80°	53.5	4.1
80°-90°	17.2	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°	593.6	45.6
0°-40°	879.3	67.6
0°-60°	1142.0	87.7
0°-90°	1301.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1301.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	832	
5°	815	77
15°	744	210
25°	668	307
35°	479	286
45°	181	146
55°	132	117
65°	90	89
75°	50	54
85°	16	17
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	832.5
2.5°	830.1
5°	815.4
7.5°	795.6
10°	778.1
12.5°	761.4
15°	744.1
17.5°	726.5
20°	707.8
22.5°	688.7
25°	667.9
27.5°	646.0
30°	618.1
32.5°	572.1
35°	478.7
37.5°	359.2
40°	259.9
42.5°	209.0
45°	181.4
47.5°	162.1
50°	149.9
52.5°	141.1
55°	131.5
57.5°	120.8
60°	110.5
62.5°	99.9
65°	89.7
67.5°	79.6
70°	69.7
72.5°	60.1
75°	50.4
77.5°	41.4
80°	32.4
82.5°	24.0
85°	15.6
87.5°	7.4
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	10.89	12.24	11.26	12.56	12.87	10.89	12.24	11.26	12.56	12.87
	3H	12.69	13.90	13.07	14.23	14.60	12.69	13.90	13.07	14.23	14.60
	4H	13.39	14.53	13.80	14.88	15.26	13.39	14.53	13.80	14.88	15.26
	6H	13.95	15.00	14.37	15.37	15.76	13.95	15.00	14.37	15.37	15.76
	8H	14.15	15.15	14.58	15.54	15.94	14.15	15.15	14.58	15.54	15.94
	12H	14.30	15.25	14.73	15.63	16.06	14.30	15.25	14.73	15.63	16.06
4H	2H	11.48	12.61	11.88	12.96	13.34	11.48	12.61	11.88	12.96	13.34
	3H	13.50	14.44	13.91	14.85	15.25	13.50	14.44	13.91	14.85	15.25
	4H	14.34	15.19	14.77	15.60	16.05	14.34	15.19	14.77	15.60	16.05
	6H	15.03	15.77	15.49	16.22	16.68	15.03	15.77	15.49	16.22	16.68
	8H	15.29	15.98	15.76	16.42	16.89	15.29	15.98	15.76	16.42	16.89
	12H	15.49	16.10	15.97	16.58	17.05	15.49	16.10	15.97	16.58	17.05
8H	4H	14.64	15.33	15.11	15.78	16.25	14.64	15.33	15.11	15.78	16.25
	6H	15.48	16.05	15.98	16.54	17.02	15.48	16.05	15.98	16.54	17.02
	8H	15.83	16.33	16.35	16.85	17.34	15.83	16.33	16.35	16.85	17.34
	12H	16.12	16.57	16.64	17.06	17.63	16.12	16.57	16.64	17.06	17.63
12H	4H	14.67	15.28	15.15	15.76	16.24	14.67	15.28	15.15	15.76	16.24
	6H	15.55	16.05	16.07	16.57	17.06	15.55	16.05	16.07	16.57	17.06
	8H	15.96	16.40	16.47	16.90	17.47	15.96	16.40	16.47	16.90	17.47