

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: P866919

Luminaire Tested: PRLX-2002-L-927-100L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866919  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-927-100L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

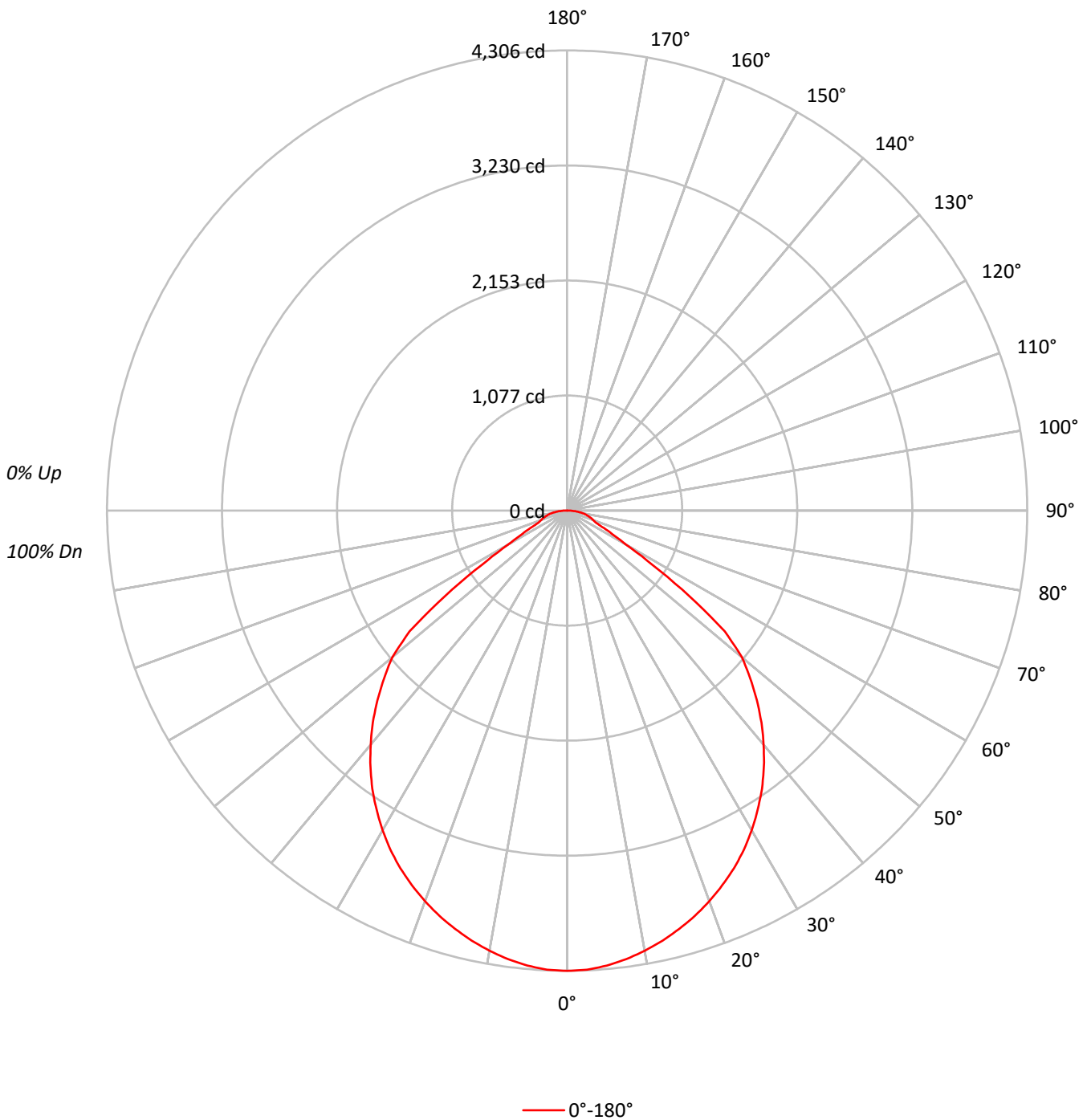
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9096.8 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3  
Luminous Opening: Circular (Dia: 1.67' 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	111	107	103	100	108	105	101	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

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

	0°
0°	21247
5°	21169
10°	20951
15°	20698
20°	20418
25°	20102
30°	19675
35°	19139
40°	18423
45°	17511
50°	16386
55°	12002
60°	6273
65°	4181
70°	3738
75°	3973
80°	4344
85°	4783

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17511 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.0	4.5
10°-20°	1142.9	12.6
20°-30°	1699.6	18.7
30°-40°	1983.9	21.8
40°-50°	1932.8	21.2
50°-60°	1238.3	13.6
60°-70°	385.6	4.2
70°-80°	219.7	2.4
80°-90°	88.9	1.0
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°	3247.6	35.7
0°-40°	5231.5	57.5
0°-60°	8402.6	92.4
0°-90°	9096.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9096.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4306	
5°	4274	405
15°	4052	1143
25°	3693	1700
35°	3178	1984
45°	2510	1933
55°	1395	1238
65°	358	386
75°	208	220
85°	84	89
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4306.5
2.5°	4300.1
5°	4274.3
7.5°	4234.1
10°	4181.8
12.5°	4123.1
15°	4052.2
17.5°	3976.6
20°	3888.9
22.5°	3794.8
25°	3692.6
27.5°	3579.9
30°	3453.6
32.5°	3319.2
35°	3177.6
37.5°	3024.7
40°	2860.5
42.5°	2690.8
45°	2509.7
47.5°	2324.6
50°	2134.8
52.5°	1857.9
55°	1395.3
57.5°	944.7
60°	635.7
62.5°	473.9
65°	358.1
67.5°	284.0
70°	259.1
72.5°	235.8
75°	208.4
77.5°	181.9
80°	152.9
82.5°	120.7
85°	84.5
87.5°	45.1
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	18.17	19.62	18.53	19.94	20.25	18.17	19.62	18.53	19.94	20.25
	3H	18.58	19.88	18.96	20.20	20.57	18.58	19.88	18.96	20.20	20.57
	4H	18.87	20.07	19.27	20.42	20.80	18.87	20.07	19.27	20.42	20.80
	6H	19.19	20.30	19.60	20.66	21.06	19.19	20.30	19.60	20.66	21.06
	8H	19.33	20.39	19.76	20.78	21.18	19.33	20.39	19.76	20.78	21.18
	12H	19.46	20.47	19.89	20.85	21.28	19.46	20.47	19.89	20.85	21.28
4H	2H	18.23	19.43	18.63	19.78	20.16	18.23	19.43	18.63	19.78	20.16
	3H	18.84	19.83	19.25	20.23	20.63	18.84	19.83	19.25	20.23	20.63
	4H	19.27	20.15	19.70	20.56	21.00	19.27	20.15	19.70	20.56	21.00
	6H	19.76	20.52	20.22	20.96	21.43	19.76	20.52	20.22	20.96	21.43
	8H	19.98	20.69	20.45	21.14	21.61	19.98	20.69	20.45	21.14	21.61
	12H	20.18	20.82	20.66	21.30	21.77	20.18	20.82	20.66	21.30	21.77
8H	4H	19.41	20.12	19.88	20.57	21.04	19.41	20.12	19.88	20.57	21.04
	6H	20.04	20.64	20.54	21.13	21.61	20.04	20.64	20.54	21.13	21.61
	8H	20.36	20.90	20.88	21.41	21.90	20.36	20.90	20.88	21.41	21.90
	12H	20.67	21.15	21.18	21.64	22.21	20.67	21.15	21.18	21.64	22.21
12H	4H	19.42	20.06	19.91	20.54	21.01	19.42	20.06	19.91	20.54	21.01
	6H	20.09	20.63	20.61	21.14	21.63	20.09	20.63	20.61	21.14	21.63
	8H	20.47	20.95	20.98	21.45	22.01	20.47	20.95	20.98	21.45	22.01