

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: P866443

Luminaire Tested: PRLX-2004-M-927-45L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-M-927-45L-L-U-S-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

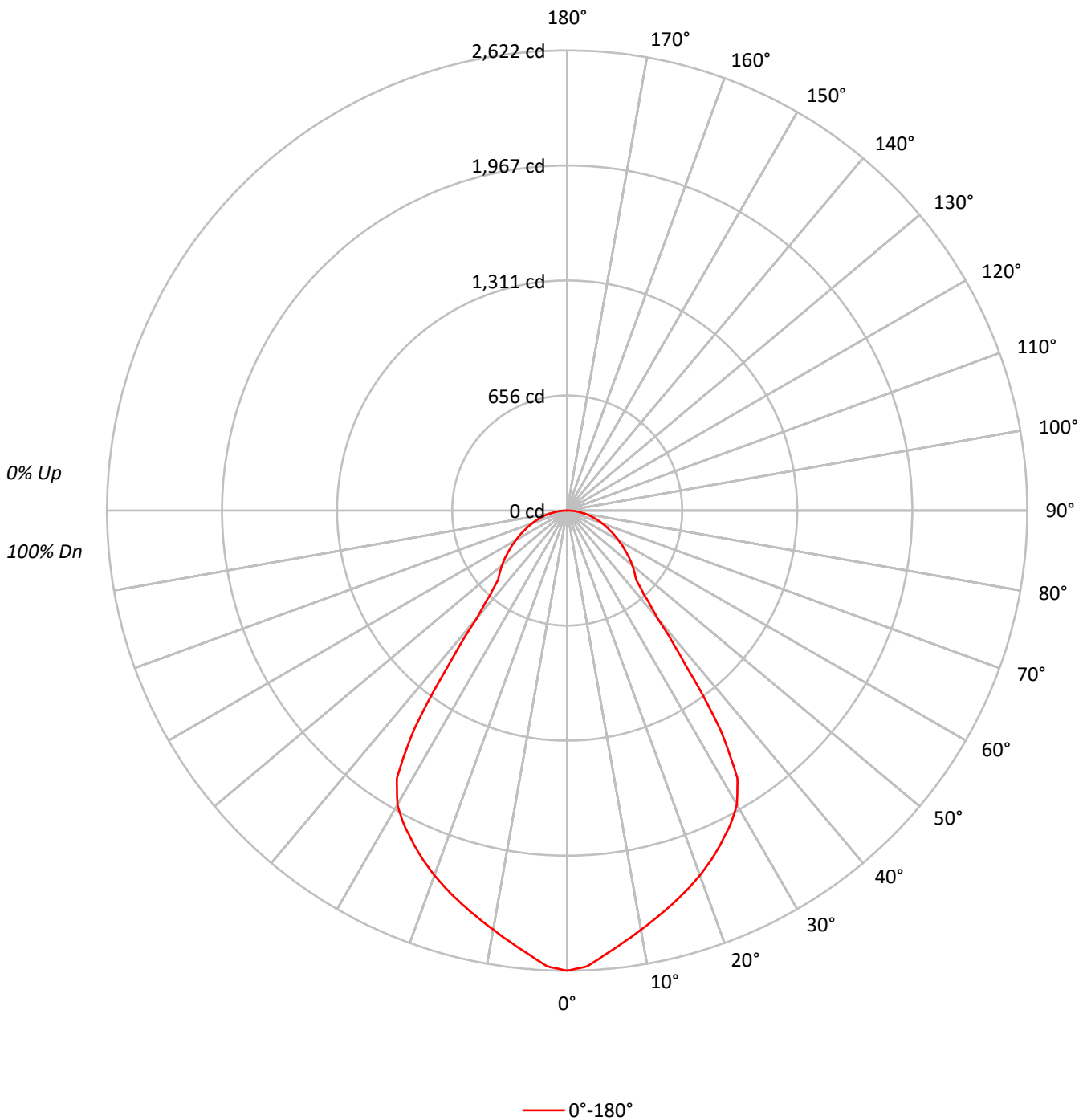
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4059.2 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.8  
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	83	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	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	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	54	48	43	52	47	43	42
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°	20856
5°	20261
10°	19591
15°	19109
20°	18724
25°	18292
30°	17769
35°	14771
40°	8313
45°	6256
50°	6007
55°	5685
60°	5359
65°	5094
70°	4913
75°	4774
80°	4655
85°	4582

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6256 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.8	5.9
10°-20°	654.5	16.1
20°-30°	959.4	23.6
30°-40°	896.3	22.1
40°-50°	454.5	11.2
50°-60°	367.0	9.0
60°-70°	269.8	6.6
70°-80°	164.2	4.0
80°-90°	54.8	1.4
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°	1852.7	45.6
0°-40°	2748.9	67.7
0°-60°	3570.4	88.0
0°-90°	4059.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4059.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2622	
5°	2537	239
15°	2320	654
25°	2084	959
35°	1521	896
45°	556	455
55°	410	367
65°	271	270
75°	155	164
85°	50	55
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2621.5
2.5°	2599.8
5°	2537.0
7.5°	2479.9
10°	2425.1
12.5°	2372.6
15°	2320.1
17.5°	2267.6
20°	2211.6
22.5°	2151.1
25°	2083.8
27.5°	2015.2
30°	1934.2
32.5°	1806.3
35°	1520.9
37.5°	1108.7
40°	800.4
42.5°	645.1
45°	556.0
47.5°	519.5
50°	485.3
52.5°	447.6
55°	409.9
57.5°	373.4
60°	336.8
62.5°	304.9
65°	270.6
67.5°	240.9
70°	211.2
72.5°	182.7
75°	155.3
77.5°	127.9
80°	101.6
82.5°	75.4
85°	50.2
87.5°	25.1
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	16.44	17.79	16.80	18.10	18.42	16.44	17.79	16.80	18.10	18.42
	3H	18.18	19.39	18.56	19.72	20.08	18.18	19.39	18.56	19.72	20.08
	4H	18.88	20.02	19.29	20.37	20.75	18.88	20.02	19.29	20.37	20.75
	6H	19.46	20.51	19.87	20.87	21.27	19.46	20.51	19.87	20.87	21.27
	8H	19.67	20.66	20.10	21.05	21.46	19.67	20.66	20.10	21.05	21.46
	12H	19.83	20.78	20.26	21.16	21.59	19.83	20.78	20.26	21.16	21.59
4H	2H	16.99	18.12	17.39	18.47	18.86	16.99	18.12	17.39	18.47	18.86
	3H	18.97	19.91	19.38	20.31	20.71	18.97	19.91	19.38	20.31	20.71
	4H	19.81	20.66	20.25	21.08	21.52	19.81	20.66	20.25	21.08	21.52
	6H	20.53	21.27	21.00	21.72	22.18	20.53	21.27	21.00	21.72	22.18
	8H	20.80	21.49	21.27	21.94	22.41	20.80	21.49	21.27	21.94	22.41
	12H	21.02	21.63	21.50	22.11	22.58	21.02	21.63	21.50	22.11	22.58
8H	4H	20.12	20.81	20.59	21.26	21.73	20.12	20.81	20.59	21.26	21.73
	6H	20.99	21.56	21.49	22.05	22.53	20.99	21.56	21.49	22.05	22.53
	8H	21.36	21.86	21.88	22.37	22.87	21.36	21.86	21.88	22.37	22.87
	12H	21.67	22.12	22.19	22.61	23.18	21.67	22.12	22.19	22.61	23.18
12H	4H	20.15	20.76	20.64	21.25	21.72	20.15	20.76	20.64	21.25	21.72
	6H	21.06	21.57	21.58	22.08	22.57	21.06	21.57	21.58	22.08	22.57
	8H	21.49	21.94	22.01	22.43	23.00	21.49	21.94	22.01	22.43	23.00