

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: P866831

Luminaire Tested: PRLX-2001-L-935-48L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-76)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-935-48L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

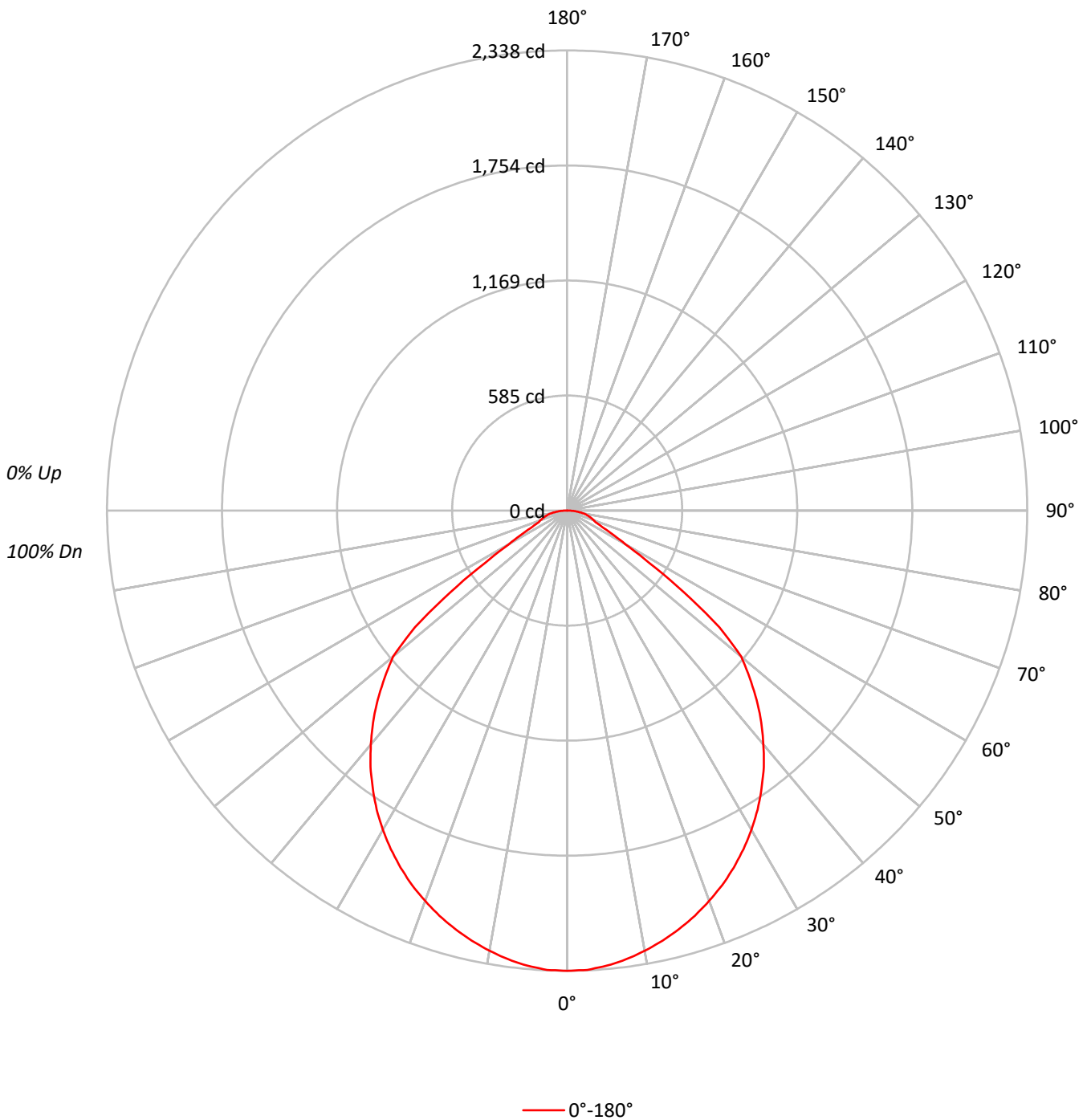
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4917.0 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.5  
Input Voltage (V): 120  
Input Current (Ain): 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	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	32	31

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

	0°
0°	12783
5°	12739
10°	12607
15°	12453
20°	12278
25°	12074
30°	11820
35°	11494
40°	11072
45°	10523
50°	9819
55°	6897
60°	3734
65°	2542
70°	2310
75°	2454
80°	2638
85°	2823

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10523 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.0	4.5
10°-20°	620.5	12.6
20°-30°	921.6	18.7
30°-40°	1076.1	21.9
40°-50°	1047.4	21.3
50°-60°	651.7	13.3
60°-70°	210.1	4.3
70°-80°	121.9	2.5
80°-90°	47.7	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°	1762.1	35.8
0°-40°	2838.2	57.7
0°-60°	4537.3	92.3
0°-90°	4917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4917.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2338	
5°	2321	220
15°	2200	620
25°	2002	922
35°	1722	1076
45°	1361	1047
55°	724	652
65°	196	210
75°	116	122
85°	45	48
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2338.3
2.5°	2335.7
5°	2321.3
7.5°	2299.5
10°	2271.1
12.5°	2238.8
15°	2200.3
17.5°	2158.4
20°	2110.4
22.5°	2059.7
25°	2001.7
27.5°	1939.7
30°	1872.4
32.5°	1801.2
35°	1722.2
37.5°	1641.4
40°	1551.5
42.5°	1460.2
45°	1361.1
47.5°	1257.6
50°	1154.5
52.5°	974.6
55°	723.6
57.5°	493.0
60°	341.5
62.5°	255.0
65°	196.5
67.5°	157.2
70°	144.5
72.5°	130.6
75°	116.2
77.5°	100.9
80°	83.8
82.5°	65.5
85°	45.0
87.5°	22.7
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	16.16	17.61	16.52	17.92	18.24	16.16	17.61	16.52	17.92	18.24
	3H	16.64	17.93	17.02	18.25	18.62	16.64	17.93	17.02	18.25	18.62
	4H	16.96	18.16	17.36	18.51	18.89	16.96	18.16	17.36	18.51	18.89
	6H	17.31	18.41	17.72	18.78	19.18	17.31	18.41	17.72	18.78	19.18
	8H	17.46	18.51	17.89	18.90	19.31	17.46	18.51	17.89	18.90	19.31
	12H	17.59	18.59	18.02	18.98	19.41	17.59	18.59	18.02	18.98	19.41
4H	2H	16.24	17.44	16.64	17.79	18.17	16.24	17.44	16.64	17.79	18.17
	3H	16.93	17.92	17.35	18.32	18.72	16.93	17.92	17.35	18.32	18.72
	4H	17.40	18.28	17.84	18.70	19.14	17.40	18.28	17.84	18.70	19.14
	6H	17.93	18.69	18.39	19.14	19.60	17.93	18.69	18.39	19.14	19.60
	8H	18.16	18.87	18.62	19.32	19.79	18.16	18.87	18.62	19.32	19.79
	12H	18.36	18.99	18.84	19.48	19.95	18.36	18.99	18.84	19.48	19.95
8H	4H	17.57	18.28	18.03	18.73	19.20	17.57	18.28	18.03	18.73	19.20
	6H	18.24	18.83	18.74	19.32	19.80	18.24	18.83	18.74	19.32	19.80
	8H	18.56	19.10	19.08	19.61	20.10	18.56	19.10	19.08	19.61	20.10
	12H	18.87	19.35	19.38	19.84	20.41	18.87	19.35	19.38	19.84	20.41
12H	4H	17.59	18.22	18.07	18.70	19.17	17.59	18.22	18.07	18.70	19.17
	6H	18.29	18.82	18.80	19.34	19.83	18.29	18.82	18.80	19.34	19.83
	8H	18.68	19.16	19.19	19.65	20.22	18.68	19.16	19.19	19.65	20.22