

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: P866743

Luminaire Tested: PRLX-2001-L-930-133L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866743  
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: PrentaLux  
Catalog Number: PRLX-2001-L-930-133L-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 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

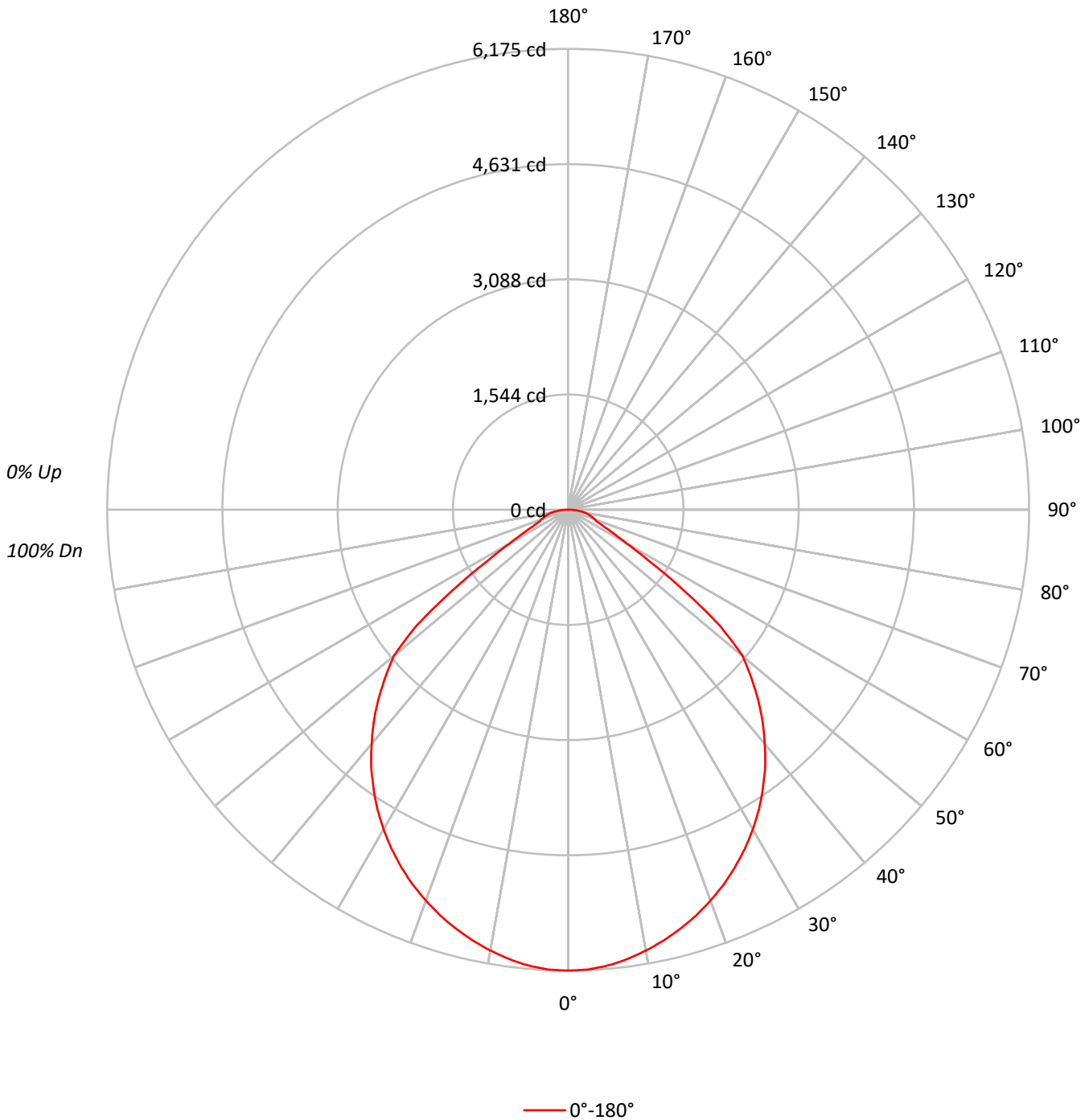
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12985.4 lumens  
Efficiency: N/A  
Efficacy: 116.1 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): 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: 0.333 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°	33759
5°	33642
10°	33295
15°	32888
20°	32424
25°	31886
30°	31215
35°	30354
40°	29240
45°	27790
50°	25931
55°	18212
60°	9860
65°	6712
70°	6101
75°	6478
80°	6970
85°	7452

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 27790 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.9	4.5
10°-20°	1638.6	12.6
20°-30°	2433.9	18.7
30°-40°	2841.8	21.9
40°-50°	2766.2	21.3
50°-60°	1721.2	13.3
60°-70°	554.9	4.3
70°-80°	321.9	2.5
80°-90°	125.9	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°	4653.5	35.8
0°-40°	7495.3	57.7
0°-60°	11982.7	92.3
0°-90°	12985.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12985.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6175	
5°	6130	581
15°	5811	1639
25°	5286	2434
35°	4548	2842
45°	3594	2766
55°	1911	1721
65°	519	555
75°	307	322
85°	119	126
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6175.3
2.5°	6168.4
5°	6130.4
7.5°	6072.7
10°	5997.8
12.5°	5912.4
15°	5810.9
17.5°	5700.2
20°	5573.4
22.5°	5439.6
25°	5286.2
27.5°	5122.5
30°	4944.9
32.5°	4756.9
35°	4548.2
37.5°	4334.8
40°	4097.3
42.5°	3856.3
45°	3594.5
47.5°	3321.2
50°	3049.0
52.5°	2573.9
55°	1910.8
57.5°	1302.0
60°	901.8
62.5°	673.5
65°	518.9
67.5°	415.1
70°	381.7
72.5°	344.8
75°	306.7
77.5°	266.4
80°	221.4
82.5°	173.0
85°	118.8
87.5°	60.0
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	19.53	20.98	19.90	21.30	21.61	19.53	20.98	19.90	21.30	21.61
	3H	20.01	21.30	20.39	21.63	21.99	20.01	21.30	20.39	21.63	21.99
	4H	20.33	21.53	20.73	21.88	22.26	20.33	21.53	20.73	21.88	22.26
	6H	20.68	21.79	21.10	22.16	22.55	20.68	21.79	21.10	22.16	22.55
	8H	20.84	21.89	21.26	22.28	22.68	20.84	21.89	21.26	22.28	22.68
	12H	20.96	21.97	21.39	22.35	22.78	20.96	21.97	21.39	22.35	22.78
4H	2H	19.61	20.81	20.01	21.16	21.54	19.61	20.81	20.01	21.16	21.54
	3H	20.31	21.29	20.72	21.69	22.09	20.31	21.29	20.72	21.69	22.09
	4H	20.78	21.66	21.21	22.07	22.51	20.78	21.66	21.21	22.07	22.51
	6H	21.30	22.07	21.76	22.51	22.97	21.30	22.07	21.76	22.51	22.97
	8H	21.53	22.25	22.00	22.69	23.16	21.53	22.25	22.00	22.69	23.16
	12H	21.73	22.37	22.22	22.85	23.32	21.73	22.37	22.22	22.85	23.32
8H	4H	20.94	21.66	21.41	22.10	22.57	20.94	21.66	21.41	22.10	22.57
	6H	21.61	22.20	22.11	22.70	23.18	21.61	22.20	22.11	22.70	23.18
	8H	21.94	22.47	22.45	22.98	23.47	21.94	22.47	22.45	22.98	23.47
	12H	22.24	22.72	22.75	23.21	23.78	22.24	22.72	22.75	23.21	23.78
12H	4H	20.96	21.60	21.44	22.08	22.55	20.96	21.60	21.44	22.08	22.55
	6H	21.66	22.20	22.18	22.71	23.20	21.66	22.20	22.18	22.71	23.20
	8H	22.05	22.53	22.56	23.03	23.59	22.05	22.53	22.56	23.03	23.59