

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: P866861

Luminaire Tested: PRLX-2001-L-940-117L-L-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866861  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-940-117L-L-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

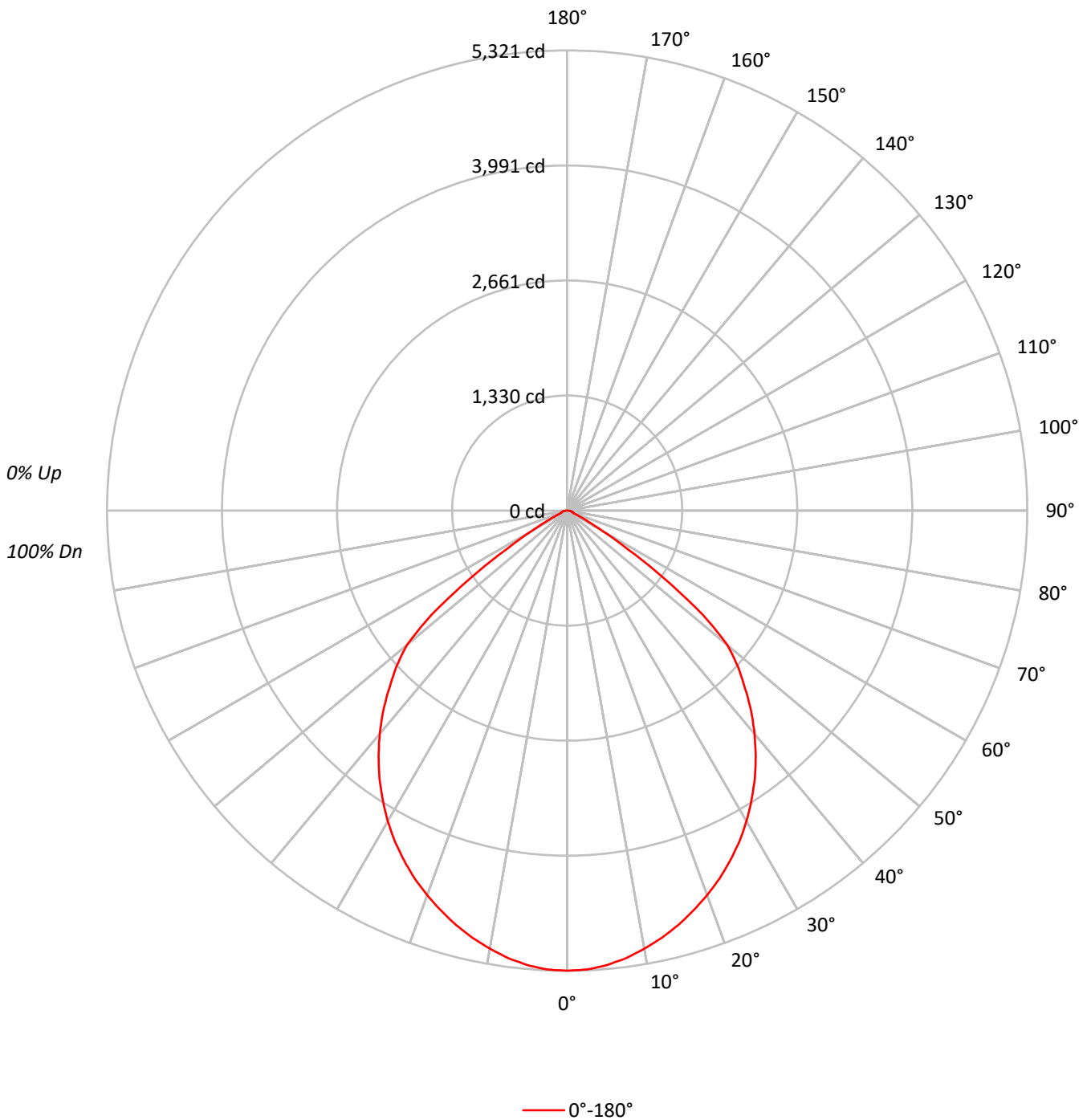
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10085.4 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90				90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	87	84	81	80				80
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55				55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50				50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45				45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40				40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37				37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

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

	0°
0°	29087
5°	28948
10°	28554
15°	28073
20°	27536
25°	26924
30°	26181
35°	25236
40°	24056
45°	22508
50°	20575
55°	13056
60°	5178
65°	1982
70°	1199
75°	1307
80°	1470
85°	1637

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22508 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.4	5.0
10°-20°	1397.8	13.9
20°-30°	2054.6	20.4
30°-40°	2360.8	23.4
40°-50°	2243.0	22.2
50°-60°	1243.6	12.3
60°-70°	194.1	1.9
70°-80°	65.1	0.6
80°-90°	27.0	0.3
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°	3951.8	39.2
0°-40°	6312.6	62.6
0°-60°	9799.1	97.2
0°-90°	10085.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10085.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5321	
5°	5275	499
15°	4960	1398
25°	4464	2055
35°	3781	2361
45°	2911	2243
55°	1370	1244
65°	153	194
75°	62	65
85°	26	27
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5320.7
2.5°	5312.1
5°	5275.1
7.5°	5219.7
10°	5143.7
12.5°	5060.0
15°	4960.1
17.5°	4850.4
20°	4733.1
22.5°	4606.0
25°	4463.6
27.5°	4313.7
30°	4147.5
32.5°	3969.4
35°	3781.4
37.5°	3582.6
40°	3370.8
42.5°	3150.3
45°	2911.3
47.5°	2679.9
50°	2419.2
52.5°	1974.9
55°	1369.8
57.5°	833.2
60°	473.6
62.5°	281.4
65°	153.2
67.5°	83.6
70°	75.0
72.5°	68.4
75°	61.9
77.5°	55.4
80°	46.7
82.5°	36.9
85°	26.1
87.5°	13.0
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	17.34	18.71	17.70	19.03	19.34	17.34	18.71	17.70	19.03	19.34
	3H	17.27	18.48	17.65	18.81	19.18	17.27	18.48	17.65	18.81	19.18
	4H	17.25	18.37	17.65	18.73	19.11	17.25	18.37	17.65	18.73	19.11
	6H	17.24	18.27	17.65	18.64	19.03	17.24	18.27	17.65	18.64	19.03
	8H	17.23	18.20	17.66	18.59	19.00	17.23	18.20	17.66	18.59	19.00
	12H	17.22	18.15	17.65	18.53	18.96	17.22	18.15	17.65	18.53	18.96
4H	2H	17.21	18.33	17.61	18.68	19.06	17.21	18.33	17.61	18.68	19.06
	3H	17.18	18.08	17.59	18.48	18.89	17.18	18.08	17.59	18.48	18.89
	4H	17.17	17.97	17.60	18.39	18.83	17.17	17.97	17.60	18.39	18.83
	6H	17.19	17.89	17.65	18.33	18.80	17.19	17.89	17.65	18.33	18.80
	8H	17.19	17.84	17.66	18.29	18.76	17.19	17.84	17.66	18.29	18.76
	12H	17.20	17.77	17.68	18.25	18.73	17.20	17.77	17.68	18.25	18.73
8H	4H	17.08	17.72	17.54	18.17	18.64	17.08	17.72	17.54	18.17	18.64
	6H	17.12	17.65	17.62	18.15	18.63	17.12	17.65	17.62	18.15	18.63
	8H	17.14	17.62	17.66	18.14	18.63	17.14	17.62	17.66	18.14	18.63
	12H	17.17	17.61	17.69	18.11	18.68	17.17	17.61	17.69	18.11	18.68
12H	4H	17.04	17.61	17.52	18.10	18.57	17.04	17.61	17.52	18.10	18.57
	6H	17.07	17.56	17.59	18.07	18.57	17.07	17.56	17.59	18.07	18.57
	8H	17.12	17.56	17.64	18.05	18.62	17.12	17.56	17.64	18.05	18.62