

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: P866682

Luminaire Tested: PRLX-2001-L-927-133L-G-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-927-133L-G-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

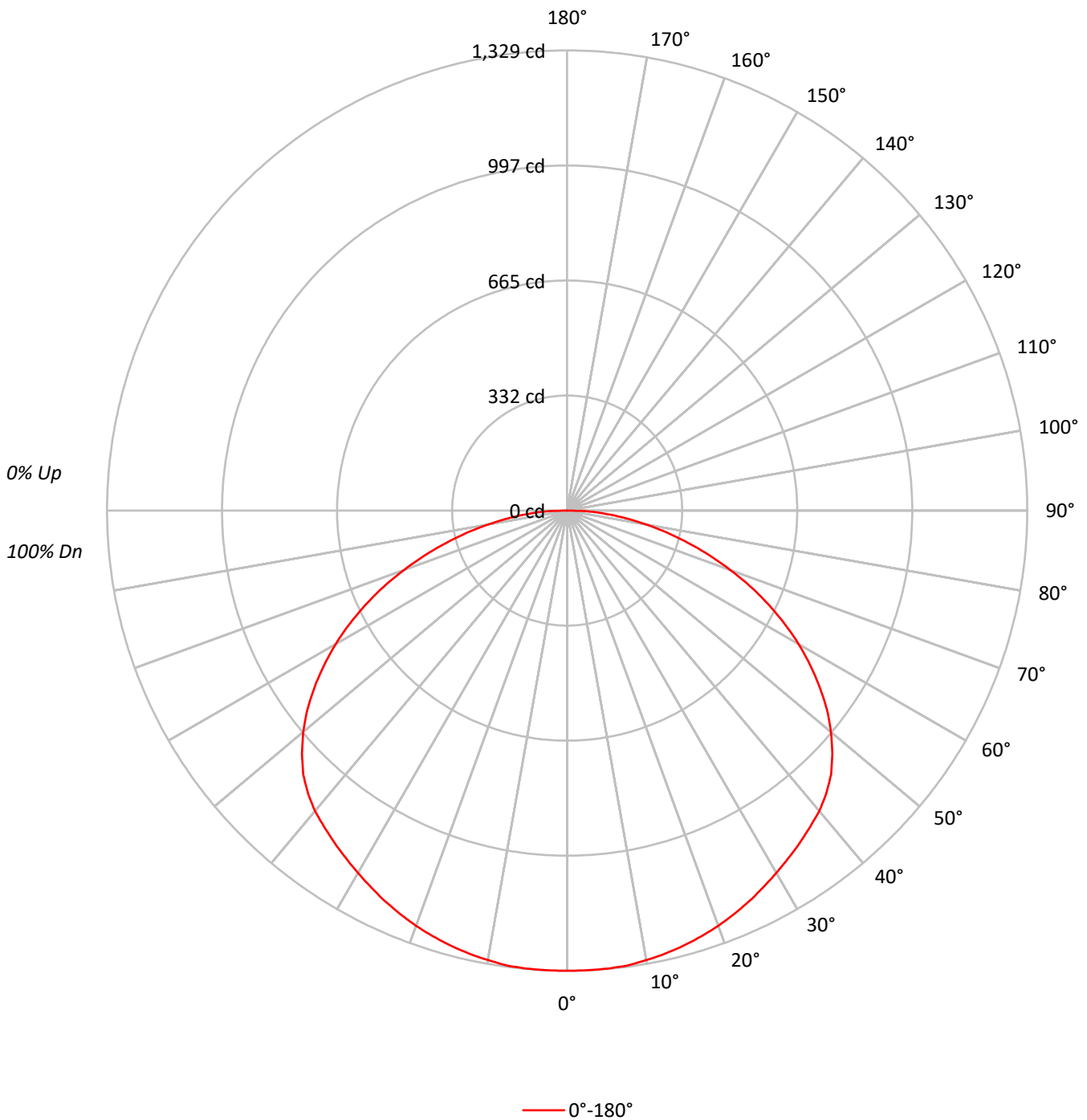
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4573.4 lumens  
Efficiency: N/A  
Efficacy: 40.9 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 111.8  
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: 0.5 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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

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

	0°
0°	7265
5°	7287
10°	7317
15°	7363
20°	7424
25°	7509
30°	7627
35°	7818
40°	8083
45°	8333
50°	8461
55°	8495
60°	8450
65°	8296
70°	8011
75°	7672
80°	7294
85°	7232

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 8498 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.5	2.8
10°-20°	367.7	8.0
20°-30°	574.7	12.6
30°-40°	734.7	16.1
40°-50°	828.9	18.1
50°-60°	795.3	17.4
60°-70°	633.5	13.9
70°-80°	384.6	8.4
80°-90°	127.4	2.8
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°	1068.9	23.4
0°-40°	1803.6	39.4
0°-60°	3427.8	75.0
0°-90°	4573.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4573.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1329	
5°	1328	126
15°	1301	368
25°	1245	575
35°	1172	735
45°	1078	829
55°	891	795
65°	641	634
75°	363	385
85°	115	127
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1328.9
2.5°	1328.9
5°	1327.8
7.5°	1325.7
10°	1318.1
12.5°	1310.6
15°	1300.9
17.5°	1289.0
20°	1276.1
22.5°	1261.0
25°	1244.8
27.5°	1226.5
30°	1208.2
32.5°	1189.9
35°	1171.5
37.5°	1152.1
40°	1132.7
42.5°	1108.0
45°	1077.8
47.5°	1039.0
50°	994.8
52.5°	946.3
55°	891.3
57.5°	833.1
60°	772.8
62.5°	708.1
65°	641.3
67.5°	573.4
70°	501.2
72.5°	432.2
75°	363.2
77.5°	296.4
80°	231.7
82.5°	171.4
85°	115.3
87.5°	65.7
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	19.85	21.56	20.21	21.87	22.19	19.85	21.56	20.21	21.87	22.19
	3H	21.81	23.36	22.18	23.69	24.05	21.81	23.36	22.18	23.69	24.05
	4H	22.57	24.04	22.97	24.38	24.76	22.57	24.04	22.97	24.38	24.76
	6H	23.17	24.53	23.58	24.90	25.28	23.17	24.53	23.58	24.90	25.28
	8H	23.38	24.69	23.81	25.08	25.48	23.38	24.69	23.81	25.08	25.48
	12H	23.56	24.81	23.99	25.19	25.62	23.56	24.81	23.99	25.19	25.62
4H	2H	20.54	22.01	20.94	22.35	22.73	20.54	22.01	20.94	22.35	22.73
	3H	22.72	23.96	23.13	24.36	24.76	22.72	23.96	23.13	24.36	24.76
	4H	23.62	24.74	24.05	25.15	25.59	23.62	24.74	24.05	25.15	25.59
	6H	24.36	25.35	24.81	25.79	26.24	24.36	25.35	24.81	25.79	26.24
	8H	24.63	25.56	25.09	26.00	26.47	24.63	25.56	25.09	26.00	26.47
	12H	24.87	25.70	25.34	26.18	26.64	24.87	25.70	25.34	26.18	26.64
8H	4H	23.98	24.91	24.44	25.35	25.81	23.98	24.91	24.44	25.35	25.81
	6H	24.86	25.64	25.35	26.13	26.60	24.86	25.64	25.35	26.13	26.60
	8H	25.23	25.93	25.74	26.43	26.92	25.23	25.93	25.74	26.43	26.92
	12H	25.56	26.18	26.07	26.67	27.23	25.56	26.18	26.07	26.67	27.23
12H	4H	24.03	24.87	24.51	25.35	25.81	24.03	24.87	24.51	25.35	25.81
	6H	24.95	25.65	25.45	26.15	26.63	24.95	25.65	25.45	26.15	26.63
	8H	25.38	26.00	25.89	26.49	27.05	25.38	26.00	25.89	26.49	27.05