

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: P866699

Luminaire Tested: PRLX-2001-L-927-32L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866699  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-927-32L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

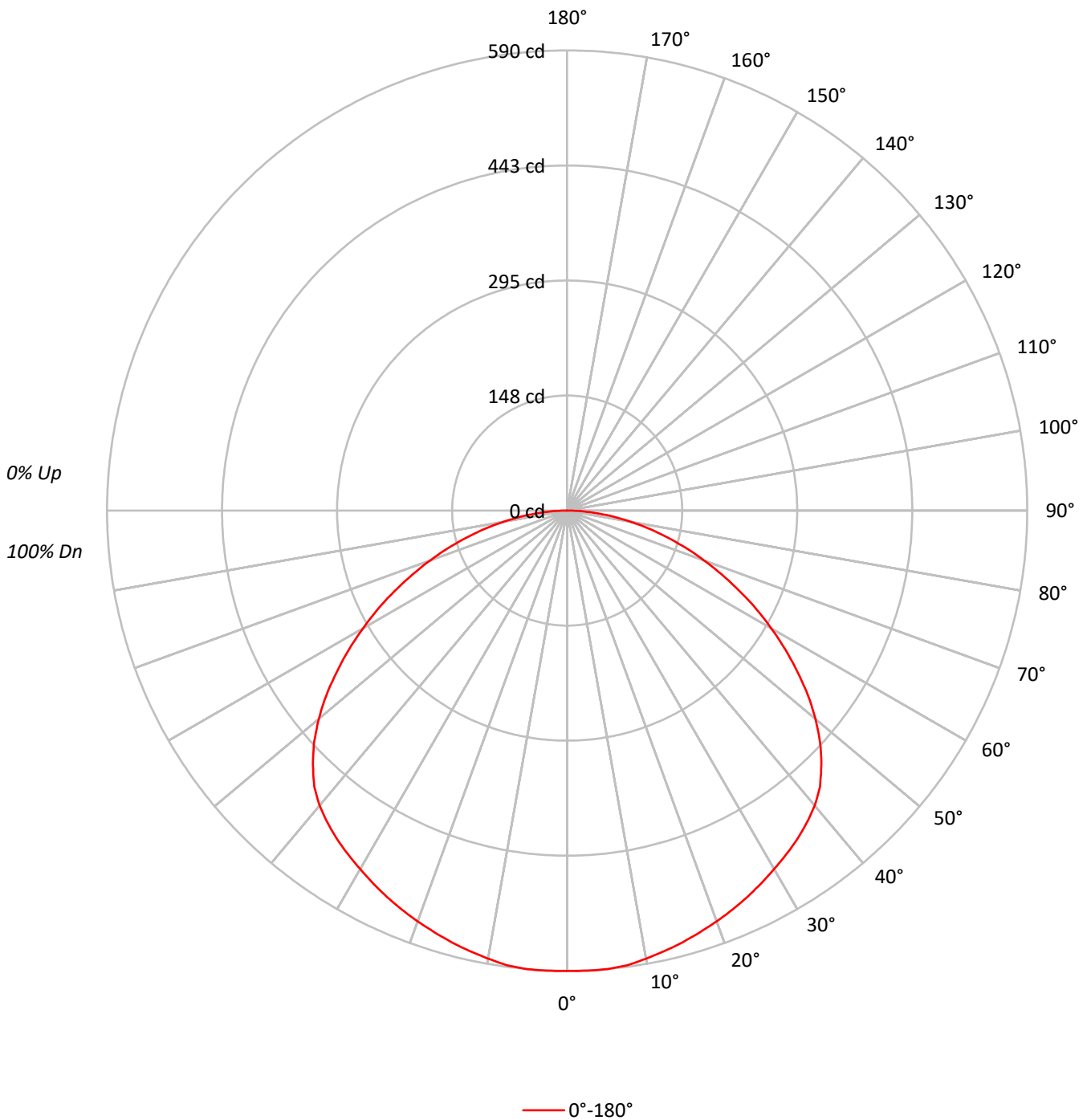
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1894.6 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.1  
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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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

	0°
0°	3227
5°	3239
10°	3238
15°	3242
20°	3261
25°	3297
30°	3351
35°	3432
40°	3524
45°	3564
50°	3536
55°	3436
60°	3305
65°	3155
70°	2986
75°	2805
80°	2613
85°	2333

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3564 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.1	3.0
10°-20°	161.9	8.5
20°-30°	252.4	13.3
30°-40°	322.1	17.0
40°-50°	354.6	18.7
50°-60°	322.2	17.0
60°-70°	241.7	12.8
70°-80°	141.3	7.5
80°-90°	42.3	2.2
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°	470.5	24.8
0°-40°	792.6	41.8
0°-60°	1469.4	77.6
0°-90°	1894.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1894.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	590	
5°	590	56
15°	573	162
25°	547	252
35°	514	322
45°	461	355
55°	360	322
65°	244	242
75°	133	141
85°	37	42
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	590.2
2.5°	590.5
5°	590.2
7.5°	588.2
10°	583.3
12.5°	578.3
15°	572.9
17.5°	566.7
20°	560.5
22.5°	553.8
25°	546.6
27.5°	538.8
30°	530.8
32.5°	522.8
35°	514.3
37.5°	504.7
40°	493.8
42.5°	479.9
45°	461.0
47.5°	440.1
50°	415.8
52.5°	389.4
55°	360.5
57.5°	331.8
60°	302.3
62.5°	273.7
65°	243.9
67.5°	214.7
70°	186.8
72.5°	160.0
75°	132.8
77.5°	108.0
80°	83.0
82.5°	59.4
85°	37.2
87.5°	17.3
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	16.55	18.22	16.91	18.54	18.85	16.55	18.22	16.91	18.54	18.85
	3H	18.32	19.84	18.70	20.17	20.52	18.32	19.84	18.70	20.17	20.52
	4H	19.01	20.44	19.40	20.79	21.16	19.01	20.44	19.40	20.79	21.16
	6H	19.54	20.87	19.95	21.23	21.62	19.54	20.87	19.95	21.23	21.62
	8H	19.72	20.99	20.14	21.38	21.78	19.72	20.99	20.14	21.38	21.78
	12H	19.85	21.07	20.28	21.45	21.88	19.85	21.07	20.28	21.45	21.88
4H	2H	17.17	18.61	17.57	18.95	19.33	17.17	18.61	17.57	18.95	19.33
	3H	19.18	20.38	19.59	20.78	21.18	19.18	20.38	19.59	20.78	21.18
	4H	20.00	21.09	20.43	21.50	21.93	20.00	21.09	20.43	21.50	21.93
	6H	20.67	21.62	21.12	22.06	22.52	20.67	21.62	21.12	22.06	22.52
	8H	20.90	21.80	21.36	22.24	22.70	20.90	21.80	21.36	22.24	22.70
	12H	21.08	21.89	21.56	22.36	22.83	21.08	21.89	21.56	22.36	22.83
8H	4H	20.33	21.22	20.79	21.66	22.13	20.33	21.22	20.79	21.66	22.13
	6H	21.13	21.88	21.62	22.36	22.84	21.13	21.88	21.62	22.36	22.84
	8H	21.44	22.12	21.95	22.62	23.11	21.44	22.12	21.95	22.62	23.11
	12H	21.70	22.30	22.21	22.79	23.35	21.70	22.30	22.21	22.79	23.35
12H	4H	20.37	21.18	20.85	21.65	22.12	20.37	21.18	20.85	21.65	22.12
	6H	21.20	21.87	21.70	22.37	22.86	21.20	21.87	21.70	22.37	22.86
	8H	21.57	22.17	22.08	22.66	23.22	21.57	22.17	22.08	22.66	23.22