

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: P866759

Luminaire Tested: PRLX-2001-L-930-32L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866759  
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-930-32L-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 2  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

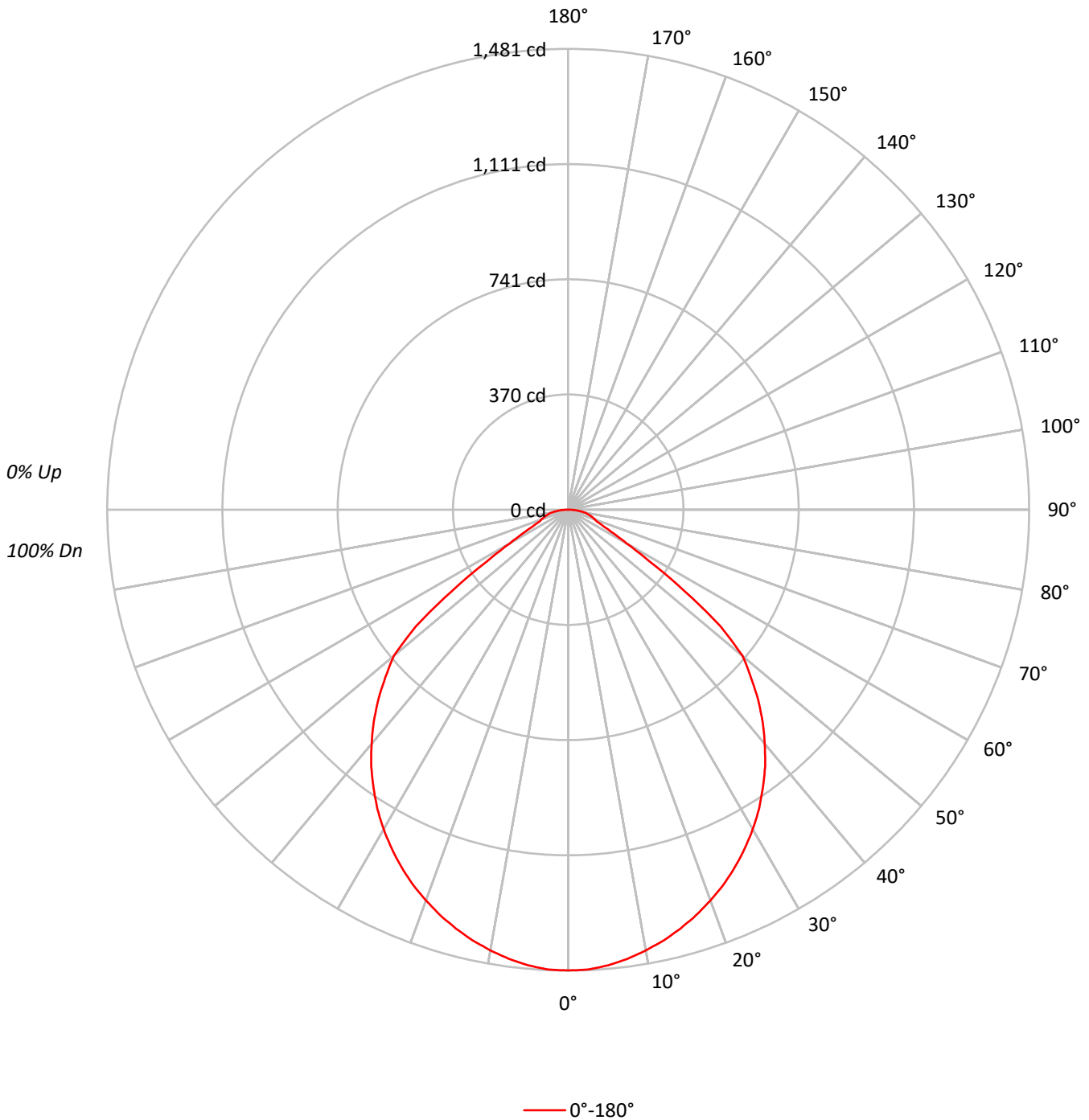
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3113.5 lumens  
Efficiency: N/A  
Efficacy: 119.3 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): 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	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°	8095
5°	8066
10°	7983
15°	7886
20°	7774
25°	7646
30°	7484
35°	7278
40°	7011
45°	6664
50°	6218
55°	4367
60°	2364
65°	1609
70°	1463
75°	1552
80°	1672
85°	1788

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6664 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.3	4.5
10°-20°	392.9	12.6
20°-30°	583.6	18.7
30°-40°	681.4	21.9
40°-50°	663.3	21.3
50°-60°	412.7	13.3
60°-70°	133.0	4.3
70°-80°	77.2	2.5
80°-90°	30.2	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°	1115.8	35.8
0°-40°	1797.2	57.7
0°-60°	2873.1	92.3
0°-90°	3113.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3113.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1481	
5°	1470	139
15°	1393	393
25°	1268	584
35°	1090	681
45°	862	663
55°	458	413
65°	124	133
75°	74	77
85°	28	30
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1480.7
2.5°	1479.0
5°	1469.9
7.5°	1456.1
10°	1438.1
12.5°	1417.6
15°	1393.3
17.5°	1366.7
20°	1336.3
22.5°	1304.3
25°	1267.5
27.5°	1228.2
30°	1185.6
32.5°	1140.6
35°	1090.5
37.5°	1039.4
40°	982.4
42.5°	924.6
45°	861.9
47.5°	796.3
50°	731.1
52.5°	617.2
55°	458.2
57.5°	312.2
60°	216.2
62.5°	161.5
65°	124.4
67.5°	99.5
70°	91.5
72.5°	82.7
75°	73.5
77.5°	63.9
80°	53.1
82.5°	41.5
85°	28.5
87.5°	14.4
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	14.57	16.02	14.94	16.34	16.65	14.57	16.02	14.94	16.34	16.65
	3H	15.05	16.34	15.43	16.67	17.03	15.05	16.34	15.43	16.67	17.03
	4H	15.37	16.57	15.77	16.92	17.30	15.37	16.57	15.77	16.92	17.30
	6H	15.72	16.83	16.13	17.20	17.59	15.72	16.83	16.13	17.20	17.59
	8H	15.87	16.93	16.30	17.32	17.72	15.87	16.93	16.30	17.32	17.72
	12H	16.00	17.01	16.43	17.39	17.82	16.00	17.01	16.43	17.39	17.82
4H	2H	14.65	15.85	15.05	16.20	16.58	14.65	15.85	15.05	16.20	16.58
	3H	15.35	16.33	15.76	16.73	17.13	15.35	16.33	15.76	16.73	17.13
	4H	15.82	16.69	16.25	17.11	17.55	15.82	16.69	16.25	17.11	17.55
	6H	16.34	17.10	16.80	17.55	18.01	16.34	17.10	16.80	17.55	18.01
	8H	16.57	17.28	17.04	17.73	18.20	16.57	17.28	17.04	17.73	18.20
	12H	16.77	17.41	17.26	17.89	18.36	16.77	17.41	17.26	17.89	18.36
8H	4H	15.98	16.69	16.45	17.14	17.61	15.98	16.69	16.45	17.14	17.61
	6H	16.65	17.24	17.15	17.74	18.21	16.65	17.24	17.15	17.74	18.21
	8H	16.98	17.51	17.49	18.02	18.51	16.98	17.51	17.49	18.02	18.51
	12H	17.28	17.76	17.79	18.25	18.82	17.28	17.76	17.79	18.25	18.82
12H	4H	16.00	16.63	16.48	17.11	17.59	16.00	16.63	16.48	17.11	17.59
	6H	16.70	17.24	17.22	17.75	18.24	16.70	17.24	17.22	17.75	18.24
	8H	17.09	17.57	17.60	18.06	18.63	17.09	17.57	17.60	18.06	18.63