

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: P866757

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866757  
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-930-32L-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 2  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

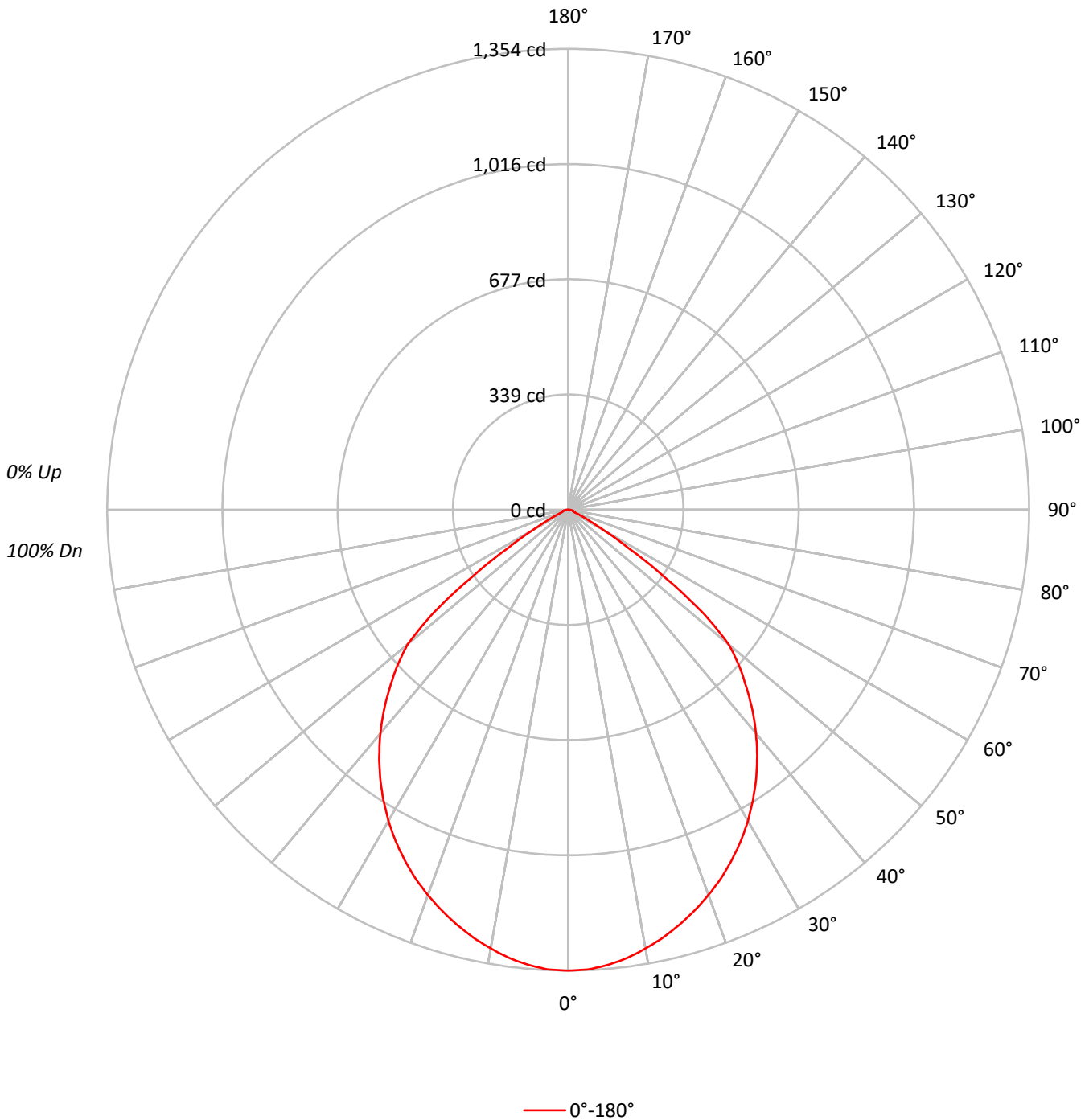
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2567.1 lumens  
Efficiency: N/A  
Efficacy: 98.4 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): 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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

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

	0°
0°	7404
5°	7368
10°	7268
15°	7145
20°	7009
25°	6853
30°	6664
35°	6424
40°	6123
45°	5729
50°	5237
55°	3324
60°	1319
65°	504
70°	305
75°	334
80°	375
85°	414

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5729 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.1	5.0
10°-20°	355.8	13.9
20°-30°	523.0	20.4
30°-40°	600.9	23.4
40°-50°	570.9	22.2
50°-60°	316.6	12.3
60°-70°	49.4	1.9
70°-80°	16.6	0.6
80°-90°	6.9	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°	1005.9	39.2
0°-40°	1606.8	62.6
0°-60°	2494.2	97.2
0°-90°	2567.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2567.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1354	
5°	1343	127
15°	1262	356
25°	1136	523
35°	962	601
45°	741	571
55°	349	317
65°	39	49
75°	16	17
85°	7	7
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1354.3
2.5°	1352.1
5°	1342.7
7.5°	1328.6
10°	1309.2
12.5°	1287.9
15°	1262.5
17.5°	1234.6
20°	1204.7
22.5°	1172.4
25°	1136.1
27.5°	1098.0
30°	1055.7
32.5°	1010.3
35°	962.5
37.5°	911.9
40°	858.0
42.5°	801.9
45°	741.0
47.5°	682.1
50°	615.8
52.5°	502.7
55°	348.7
57.5°	212.1
60°	120.6
62.5°	71.6
65°	39.0
67.5°	21.3
70°	19.1
72.5°	17.4
75°	15.8
77.5°	14.1
80°	11.9
82.5°	9.4
85°	6.6
87.5°	3.3
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	12.58	13.96	12.95	14.27	14.59	12.58	13.96	12.95	14.27	14.59
	3H	12.52	13.73	12.90	14.06	14.42	12.52	13.73	12.90	14.06	14.42
	4H	12.50	13.62	12.90	13.97	14.35	12.50	13.62	12.90	13.97	14.35
	6H	12.48	13.51	12.90	13.88	14.28	12.48	13.51	12.90	13.88	14.28
	8H	12.47	13.45	12.90	13.84	14.25	12.47	13.45	12.90	13.84	14.25
	12H	12.46	13.39	12.90	13.78	14.21	12.46	13.39	12.90	13.78	14.21
4H	2H	12.45	13.58	12.86	13.93	14.31	12.45	13.58	12.86	13.93	14.31
	3H	12.42	13.33	12.83	13.73	14.13	12.42	13.33	12.83	13.73	14.13
	4H	12.41	13.22	12.85	13.64	14.08	12.41	13.22	12.85	13.64	14.08
	6H	12.44	13.13	12.90	13.58	14.04	12.44	13.13	12.90	13.58	14.04
	8H	12.44	13.09	12.91	13.53	14.00	12.44	13.09	12.91	13.53	14.00
	12H	12.44	13.02	12.93	13.50	13.98	12.44	13.02	12.93	13.50	13.98
8H	4H	12.32	12.97	12.79	13.42	13.89	12.32	12.97	12.79	13.42	13.89
	6H	12.36	12.90	12.87	13.40	13.88	12.36	12.90	12.87	13.40	13.88
	8H	12.38	12.87	12.90	13.38	13.88	12.38	12.87	12.90	13.38	13.88
	12H	12.42	12.86	12.94	13.35	13.92	12.42	12.86	12.94	13.35	13.92
12H	4H	12.29	12.86	12.77	13.34	13.82	12.29	12.86	12.77	13.34	13.82
	6H	12.32	12.81	12.84	13.32	13.81	12.32	12.81	12.84	13.32	13.81
	8H	12.37	12.81	12.89	13.30	13.87	12.37	12.81	12.89	13.30	13.87