

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: P866765

Luminaire Tested: PRLX-2001-L-930-48L-L-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866765  
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-930-48L-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 3  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

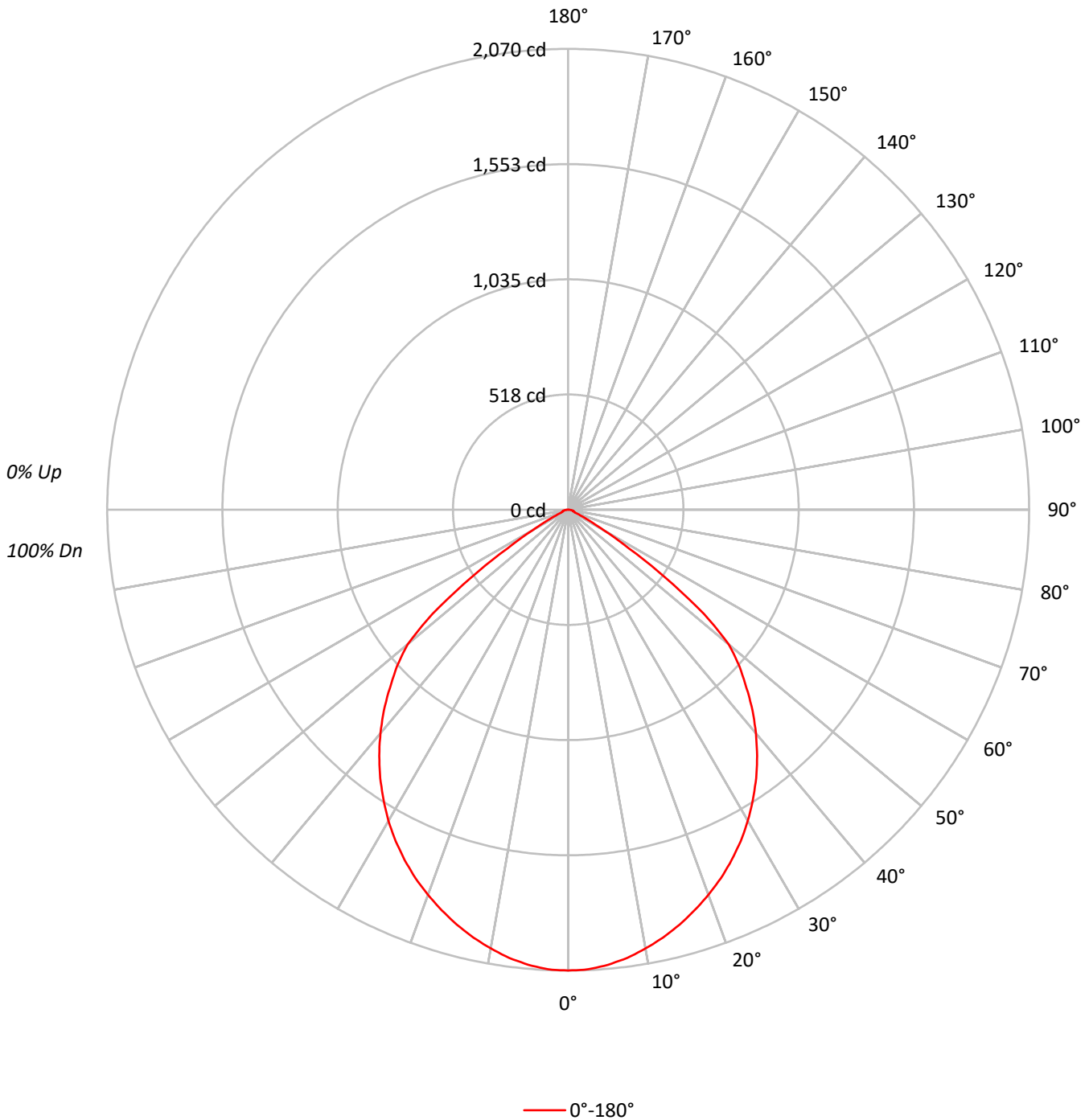
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3923.6 lumens  
Efficiency: N/A  
Efficacy: 104.6 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): 37.5  
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°	11316
5°	11262
10°	11108
15°	10922
20°	10712
25°	10475
30°	10185
35°	9818
40°	9359
45°	8756
50°	8005
55°	5079
60°	2015
65°	771
70°	467
75°	509
80°	573
85°	634

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8756 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.3	5.0
10°-20°	543.8	13.9
20°-30°	799.3	20.4
30°-40°	918.4	23.4
40°-50°	872.6	22.2
50°-60°	483.8	12.3
60°-70°	75.5	1.9
70°-80°	25.3	0.6
80°-90°	10.5	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°	1537.4	39.2
0°-40°	2455.8	62.6
0°-60°	3812.2	97.2
0°-90°	3923.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3923.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2070	
5°	2052	194
15°	1930	544
25°	1736	799
35°	1471	918
45°	1133	873
55°	533	484
65°	60	76
75°	24	25
85°	10	11
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2070.0
2.5°	2066.6
5°	2052.2
7.5°	2030.7
10°	2001.1
12.5°	1968.5
15°	1929.7
17.5°	1887.0
20°	1841.3
22.5°	1791.9
25°	1736.5
27.5°	1678.2
30°	1613.5
32.5°	1544.2
35°	1471.1
37.5°	1393.8
40°	1311.4
42.5°	1225.6
45°	1132.6
47.5°	1042.6
50°	941.2
52.5°	768.3
55°	532.9
57.5°	324.1
60°	184.3
62.5°	109.5
65°	59.6
67.5°	32.5
70°	29.2
72.5°	26.6
75°	24.1
77.5°	21.6
80°	18.2
82.5°	14.4
85°	10.1
87.5°	5.1
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	14.06	15.43	14.42	15.75	16.06	14.06	15.43	14.42	15.75	16.06
	3H	13.99	15.20	14.37	15.53	15.90	13.99	15.20	14.37	15.53	15.90
	4H	13.97	15.09	14.37	15.44	15.83	13.97	15.09	14.37	15.44	15.83
	6H	13.96	14.99	14.37	15.36	15.75	13.96	14.99	14.37	15.36	15.75
	8H	13.95	14.92	14.38	15.31	15.72	13.95	14.92	14.38	15.31	15.72
	12H	13.94	14.87	14.37	15.25	15.68	13.94	14.87	14.37	15.25	15.68
4H	2H	13.93	15.05	14.33	15.40	15.78	13.93	15.05	14.33	15.40	15.78
	3H	13.89	14.80	14.31	15.20	15.61	13.89	14.80	14.31	15.20	15.61
	4H	13.89	14.69	14.32	15.11	15.55	13.89	14.69	14.32	15.11	15.55
	6H	13.91	14.60	14.37	15.05	15.52	13.91	14.60	14.37	15.05	15.52
	8H	13.91	14.56	14.38	15.01	15.48	13.91	14.56	14.38	15.01	15.48
	12H	13.92	14.49	14.40	14.97	15.45	13.92	14.49	14.40	14.97	15.45
8H	4H	13.80	14.44	14.26	14.89	15.36	13.80	14.44	14.26	14.89	15.36
	6H	13.84	14.37	14.34	14.87	15.35	13.84	14.37	14.34	14.87	15.35
	8H	13.86	14.34	14.38	14.86	15.35	13.86	14.34	14.38	14.86	15.35
	12H	13.89	14.33	14.41	14.83	15.40	13.89	14.33	14.41	14.83	15.40
12H	4H	13.76	14.33	14.24	14.82	15.29	13.76	14.33	14.24	14.82	15.29
	6H	13.79	14.28	14.31	14.79	15.29	13.79	14.28	14.31	14.79	15.29
	8H	13.84	14.28	14.36	14.78	15.35	13.84	14.28	14.36	14.78	15.35