

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: P866725

Luminaire Tested: PRLX-2001-L-930-100L-L-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866725  
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: Pentalux  
Catalog Number: PRLX-2001-L-930-100L-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 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

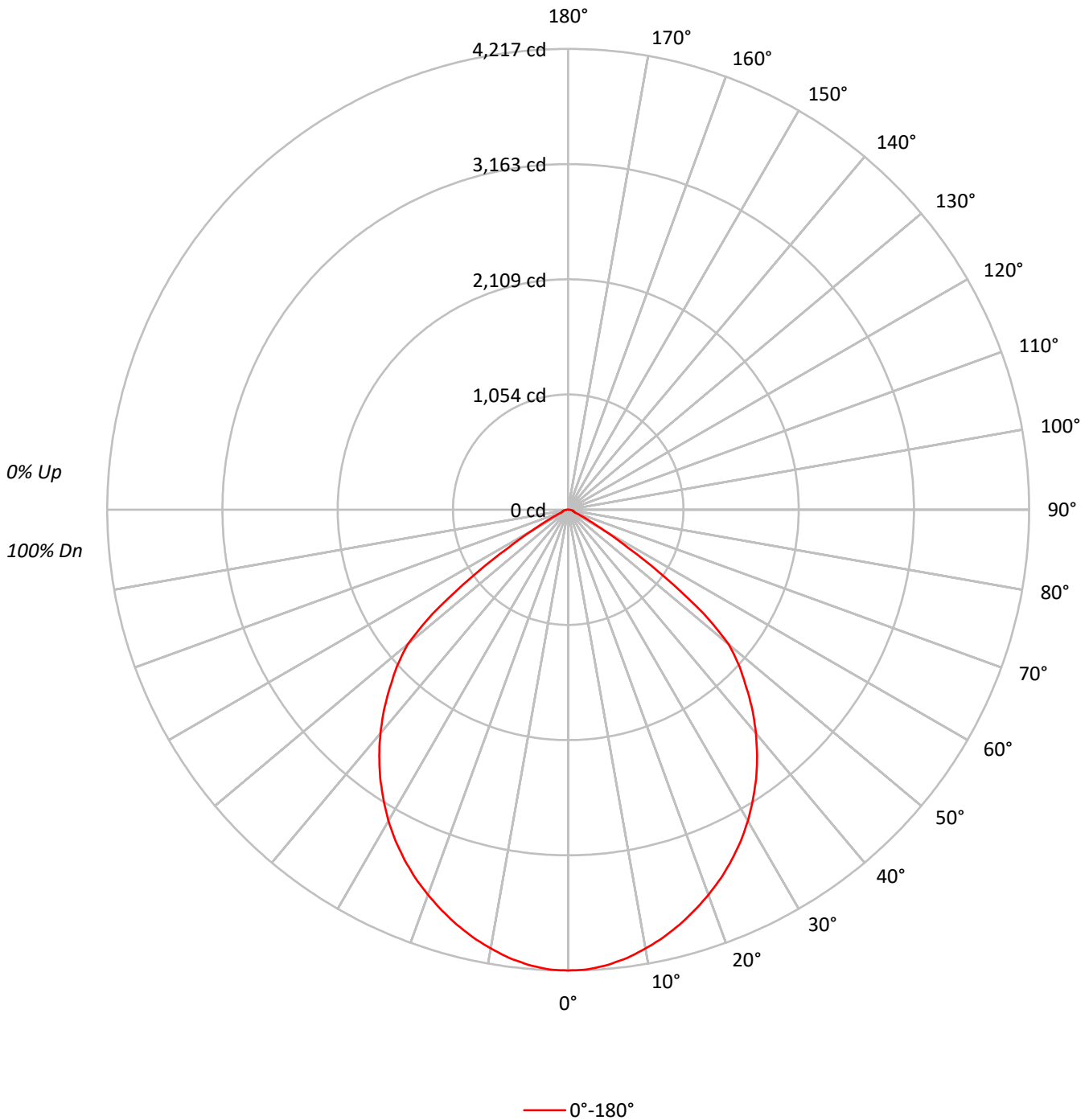
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7993.4 lumens  
Efficiency: N/A  
Efficacy: 100.7 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): 79.4  
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°	23054
5°	22943
10°	22631
15°	22249
20°	21823
25°	21339
30°	20751
35°	20001
40°	19066
45°	17839
50°	16307
55°	10348
60°	4105
65°	1570
70°	949
75°	1037
80°	1165
85°	1298

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17839 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.8	5.0
10°-20°	1107.9	13.9
20°-30°	1628.4	20.4
30°-40°	1871.1	23.4
40°-50°	1777.7	22.2
50°-60°	985.7	12.3
60°-70°	153.9	1.9
70°-80°	51.6	0.6
80°-90°	21.4	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°	3132.0	39.2
0°-40°	5003.1	62.6
0°-60°	7766.5	97.2
0°-90°	7993.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7993.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4217	
5°	4181	396
15°	3931	1108
25°	3538	1628
35°	2997	1871
45°	2307	1778
55°	1086	986
65°	121	154
75°	49	52
85°	21	21
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4217.0
2.5°	4210.1
5°	4180.8
7.5°	4136.9
10°	4076.7
12.5°	4010.4
15°	3931.2
17.5°	3844.2
20°	3751.2
22.5°	3650.5
25°	3537.7
27.5°	3418.9
30°	3287.2
32.5°	3146.0
35°	2997.0
37.5°	2839.5
40°	2671.6
42.5°	2496.8
45°	2307.4
47.5°	2124.0
50°	1917.4
52.5°	1565.2
55°	1085.7
57.5°	660.4
60°	375.4
62.5°	223.0
65°	121.4
67.5°	66.3
70°	59.4
72.5°	54.2
75°	49.1
77.5°	43.9
80°	37.0
82.5°	29.3
85°	20.7
87.5°	10.3
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	16.53	17.91	16.89	18.22	18.53	16.53	17.91	16.89	18.22	18.53
	3H	16.47	17.68	16.85	18.01	18.37	16.47	17.68	16.85	18.01	18.37
	4H	16.44	17.57	16.85	17.92	18.30	16.44	17.57	16.85	17.92	18.30
	6H	16.43	17.46	16.84	17.83	18.22	16.43	17.46	16.84	17.83	18.22
	8H	16.42	17.40	16.85	17.79	18.19	16.42	17.40	16.85	17.79	18.19
	12H	16.41	17.34	16.84	17.72	18.15	16.41	17.34	16.84	17.72	18.15
4H	2H	16.40	17.52	16.80	17.87	18.26	16.40	17.52	16.80	17.87	18.26
	3H	16.37	17.27	16.78	17.68	18.08	16.37	17.27	16.78	17.68	18.08
	4H	16.36	17.16	16.79	17.58	18.03	16.36	17.16	16.79	17.58	18.03
	6H	16.38	17.08	16.85	17.52	17.99	16.38	17.08	16.85	17.52	17.99
	8H	16.38	17.03	16.85	17.48	17.95	16.38	17.03	16.85	17.48	17.95
	12H	16.39	16.96	16.88	17.45	17.92	16.39	16.96	16.88	17.45	17.92
8H	4H	16.27	16.92	16.74	17.36	17.83	16.27	16.92	16.74	17.36	17.83
	6H	16.31	16.84	16.81	17.34	17.82	16.31	16.84	16.81	17.34	17.82
	8H	16.33	16.82	16.85	17.33	17.82	16.33	16.82	16.85	17.33	17.82
	12H	16.37	16.80	16.88	17.30	17.87	16.37	16.80	16.88	17.30	17.87
12H	4H	16.23	16.81	16.72	17.29	17.76	16.23	16.81	16.72	17.29	17.76
	6H	16.27	16.75	16.79	17.27	17.76	16.27	16.75	16.79	17.27	17.76
	8H	16.32	16.75	16.83	17.25	17.82	16.32	16.75	16.83	17.25	17.82