

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: P866662

Luminaire Tested: PRLX-2001-L-927-100L-L-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-L-927-100L-L-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

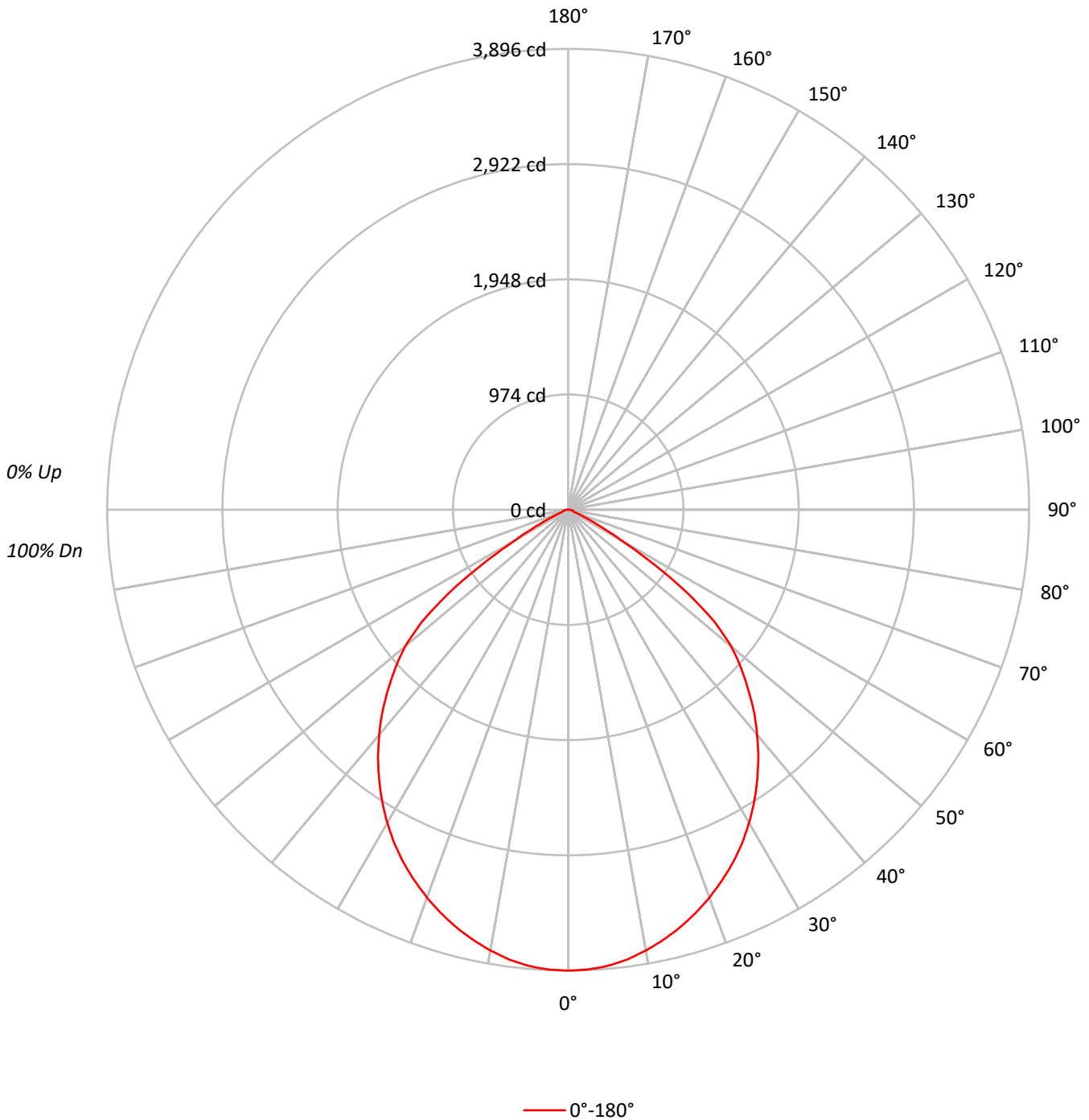
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7652.3 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27  
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: 0.5 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	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33

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

	0°
0°	21299
5°	21240
10°	21007
15°	20689
20°	20303
25°	19862
30°	19302
35°	18591
40°	17727
45°	16648
50°	15295
55°	11811
60°	5710
65°	2155
70°	849
75°	936
80°	1064
85°	1211

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16648 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.7	4.8
10°-20°	1029.9	13.5
20°-30°	1514.8	19.8
30°-40°	1739.8	22.7
40°-50°	1658.5	21.7
50°-60°	1070.6	14.0
60°-70°	205.7	2.7
70°-80°	46.3	0.6
80°-90°	19.9	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°	2911.5	38.0
0°-40°	4651.2	60.8
0°-60°	7380.3	96.4
0°-90°	7652.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7652.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3896	
5°	3870	367
15°	3656	1030
25°	3293	1515
35°	2786	1740
45°	2153	1658
55°	1239	1071
65°	167	206
75°	44	46
85°	19	20
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3896.1
2.5°	3891.3
5°	3870.4
7.5°	3835.0
10°	3784.3
12.5°	3723.9
15°	3655.5
17.5°	3576.7
20°	3489.8
22.5°	3394.0
25°	3292.7
27.5°	3180.8
30°	3057.7
32.5°	2925.7
35°	2785.7
37.5°	2640.1
40°	2484.0
42.5°	2327.1
45°	2153.3
47.5°	1981.9
50°	1798.4
52.5°	1561.0
55°	1239.2
57.5°	863.4
60°	522.2
62.5°	299.3
65°	166.6
67.5°	86.9
70°	53.1
72.5°	48.3
75°	44.3
77.5°	39.4
80°	33.8
82.5°	27.4
85°	19.3
87.5°	9.7
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	18.53	19.93	18.90	20.25	20.56	18.53	19.93	18.90	20.25	20.56
	3H	18.46	19.69	18.83	20.02	20.38	18.46	19.69	18.83	20.02	20.38
	4H	18.41	19.56	18.81	19.91	20.29	18.41	19.56	18.81	19.91	20.29
	6H	18.37	19.42	18.78	19.79	20.18	18.37	19.42	18.78	19.79	20.18
	8H	18.34	19.34	18.77	19.73	20.13	18.34	19.34	18.77	19.73	20.13
	12H	18.32	19.27	18.75	19.65	20.08	18.32	19.27	18.75	19.65	20.08
4H	2H	18.41	19.56	18.81	19.91	20.29	18.41	19.56	18.81	19.91	20.29
	3H	18.35	19.28	18.76	19.68	20.08	18.35	19.28	18.76	19.68	20.08
	4H	18.31	19.13	18.74	19.55	19.99	18.31	19.13	18.74	19.55	19.99
	6H	18.28	18.99	18.74	19.43	19.90	18.28	18.99	18.74	19.43	19.90
	8H	18.25	18.92	18.72	19.36	19.83	18.25	18.92	18.72	19.36	19.83
	12H	18.24	18.82	18.72	19.31	19.78	18.24	18.82	18.72	19.31	19.78
8H	4H	18.19	18.86	18.66	19.30	19.77	18.19	18.86	18.66	19.30	19.77
	6H	18.16	18.71	18.67	19.21	19.69	18.16	18.71	18.67	19.21	19.69
	8H	18.14	18.64	18.66	19.15	19.65	18.14	18.64	18.66	19.15	19.65
	12H	18.14	18.59	18.66	19.08	19.65	18.14	18.59	18.66	19.08	19.65
12H	4H	18.15	18.74	18.64	19.22	19.70	18.15	18.74	18.64	19.22	19.70
	6H	18.11	18.61	18.63	19.12	19.61	18.11	18.61	18.63	19.12	19.61
	8H	18.12	18.56	18.63	19.05	19.62	18.12	18.56	18.63	19.05	19.62