

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: P866736

Luminaire Tested: PRLX-2001-L-930-117L-G-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-930-117L-G-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

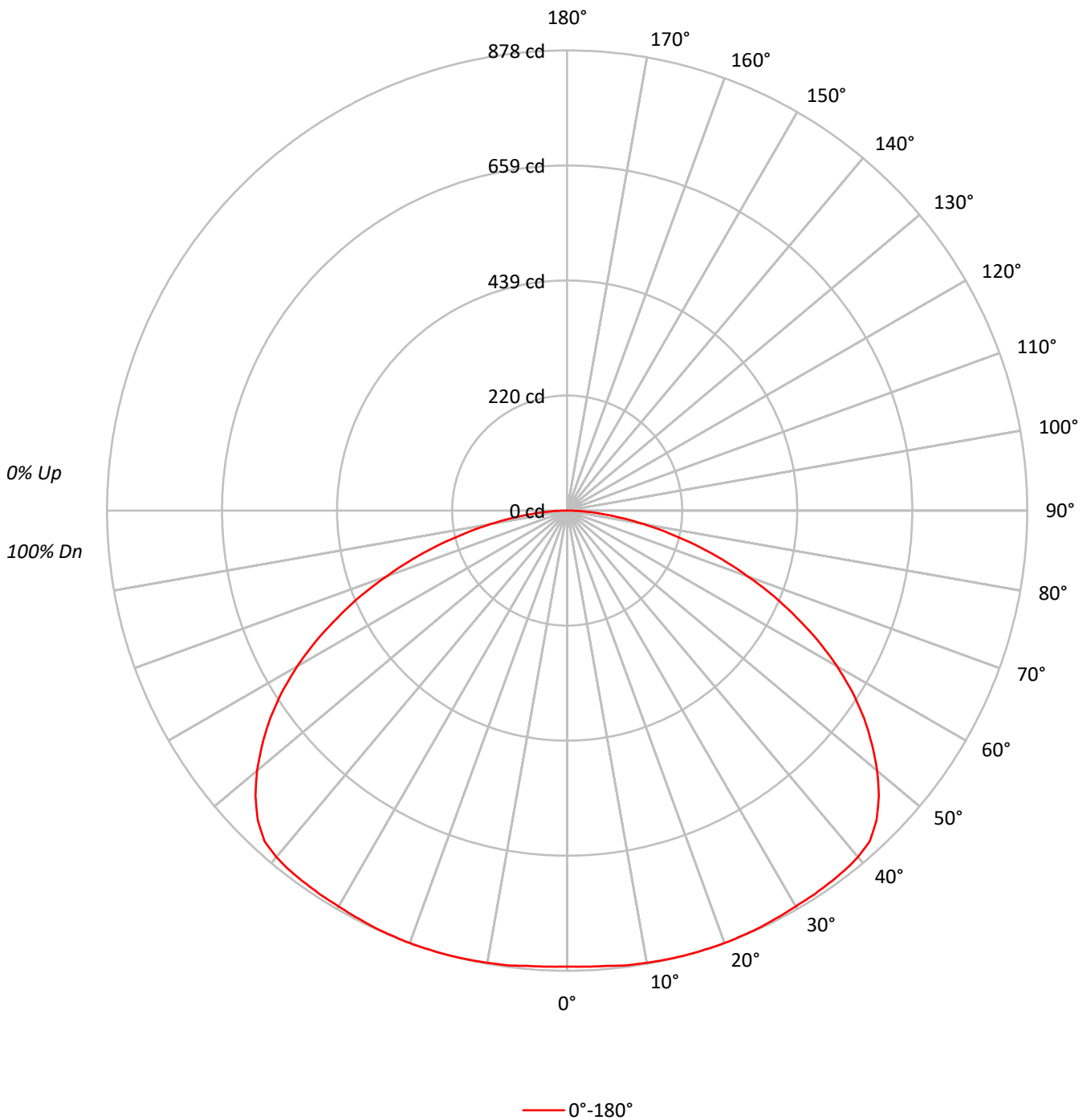
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3356.7 lumens  
Efficiency: N/A  
Efficacy: 35.3 lumens/watt  
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
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	108	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

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

	0°
0°	4757
5°	4786
10°	4864
15°	4970
20°	5109
25°	5285
30°	5505
35°	5800
40°	6159
45°	6455
50°	6569
55°	6595
60°	6508
65°	6253
70°	5860
75°	5340
80°	4659
85°	3663

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 55°  
 Luminance: 6595 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.4	2.5
10°-20°	248.8	7.4
20°-30°	405.2	12.1
30°-40°	545.6	16.3
40°-50°	640.7	19.1
50°-60°	616.3	18.4
60°-70°	478.0	14.2
70°-80°	268.3	8.0
80°-90°	70.3	2.1
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°	737.5	22.0
0°-40°	1283.1	38.2
0°-60°	2540.1	75.7
0°-90°	3356.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3356.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	870	
5°	872	83
15°	878	249
25°	876	405
35°	869	546
45°	835	641
55°	692	616
65°	483	478
75°	253	268
85°	58	70
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	870.1
2.5°	871.1
5°	872.1
7.5°	875.1
10°	876.2
12.5°	877.2
15°	878.2
17.5°	878.2
20°	878.2
22.5°	877.2
25°	876.2
27.5°	874.1
30°	872.1
32.5°	871.1
35°	869.1
37.5°	867.1
40°	863.1
42.5°	855.0
45°	834.9
47.5°	806.7
50°	772.4
52.5°	733.2
55°	691.9
57.5°	645.5
60°	595.2
62.5°	540.8
65°	483.4
67.5°	427.0
70°	366.6
72.5°	310.2
75°	252.8
77.5°	197.4
80°	148.0
82.5°	100.7
85°	58.4
87.5°	25.2
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	19.13	20.85	19.50	21.17	21.48	19.13	20.85	19.50	21.17	21.48
	3H	20.96	22.52	21.33	22.84	23.20	20.96	22.52	21.33	22.84	23.20
	4H	21.62	23.09	22.01	23.44	23.81	21.62	23.09	22.01	23.44	23.81
	6H	22.08	23.45	22.49	23.81	24.20	22.08	23.45	22.49	23.81	24.20
	8H	22.22	23.53	22.64	23.92	24.31	22.22	23.53	22.64	23.92	24.31
	12H	22.31	23.56	22.74	23.94	24.37	22.31	23.56	22.74	23.94	24.37
4H	2H	19.79	21.27	20.19	21.61	21.99	19.79	21.27	20.19	21.61	21.99
	3H	21.83	23.07	22.24	23.46	23.86	21.83	23.07	22.24	23.46	23.86
	4H	22.61	23.73	23.04	24.15	24.58	22.61	23.73	23.04	24.15	24.58
	6H	23.19	24.18	23.64	24.62	25.07	23.19	24.18	23.64	24.62	25.07
	8H	23.38	24.30	23.84	24.74	25.21	23.38	24.30	23.84	24.74	25.21
	12H	23.51	24.34	23.99	24.81	25.28	23.51	24.34	23.99	24.81	25.28
8H	4H	22.92	23.84	23.38	24.28	24.75	22.92	23.84	23.38	24.28	24.75
	6H	23.62	24.39	24.11	24.87	25.35	23.62	24.39	24.11	24.87	25.35
	8H	23.87	24.56	24.38	25.07	25.55	23.87	24.56	24.38	25.07	25.55
	12H	24.06	24.67	24.57	25.16	25.72	24.06	24.67	24.57	25.16	25.72
12H	4H	22.96	23.79	23.44	24.26	24.73	22.96	23.79	23.44	24.26	24.73
	6H	23.67	24.36	24.18	24.87	25.35	23.67	24.36	24.18	24.87	25.35
	8H	23.98	24.59	24.48	25.08	25.64	23.98	24.59	24.48	25.08	25.64