

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: P866688

Luminaire Tested: PRLX-2001-L-927-15L-G-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866688  
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-927-15L-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 1  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

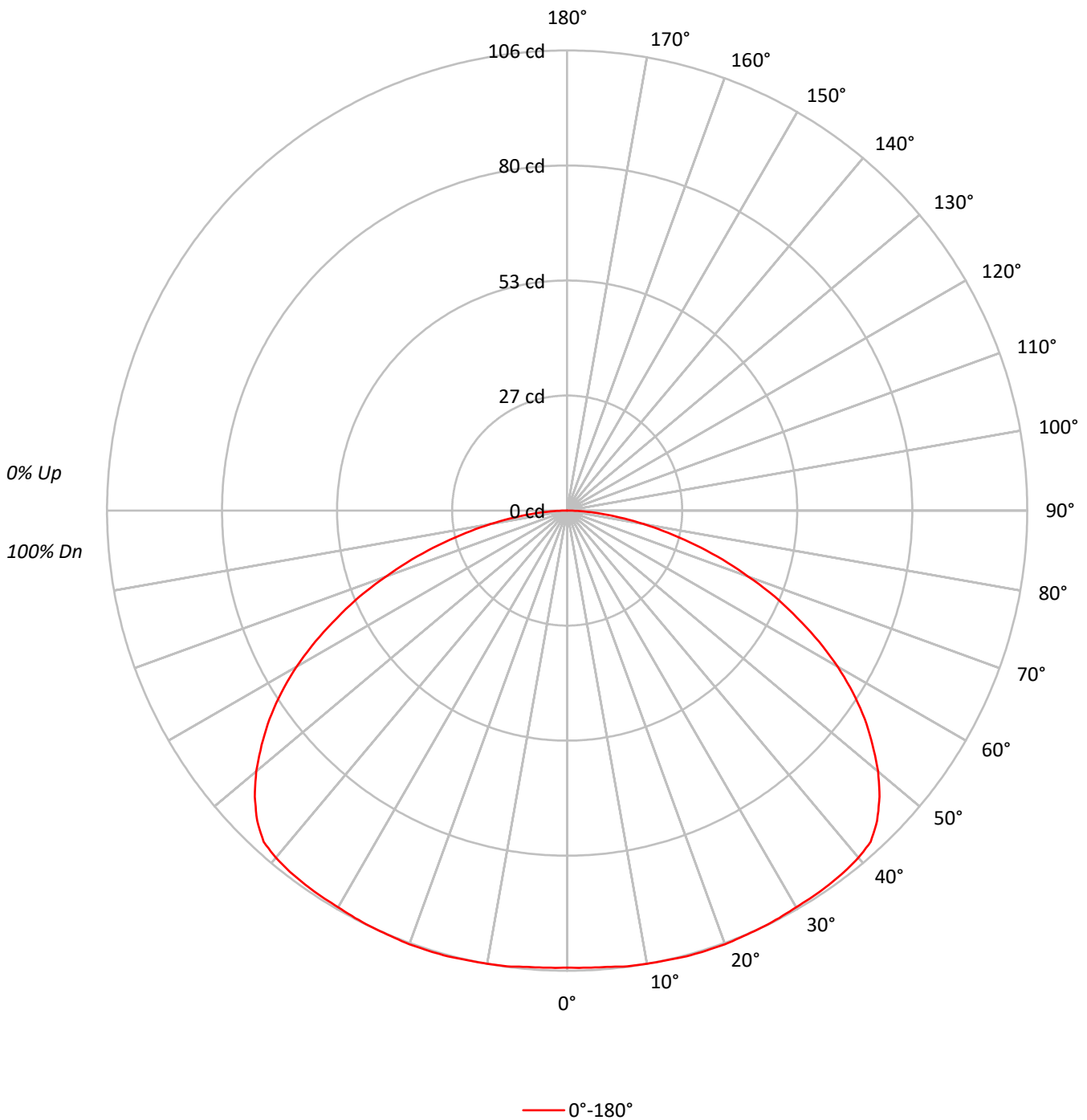
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 406.2 lumens  
Efficiency: N/A  
Efficacy: 24.8 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): 16.4  
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	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°	576
5°	579
10°	588
15°	602
20°	618
25°	639
30°	666
35°	702
40°	745
45°	781
50°	795
55°	798
60°	787
65°	757
70°	710
75°	646
80°	564
85°	445

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 55°  
 Luminance: 798 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.1	2.5
10°-20°	30.1	7.4
20°-30°	49.0	12.1
30°-40°	66.0	16.3
40°-50°	77.5	19.1
50°-60°	74.6	18.4
60°-70°	57.8	14.2
70°-80°	32.5	8.0
80°-90°	8.5	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°	89.2	22.0
0°-40°	155.3	38.2
0°-60°	307.3	75.7
0°-90°	406.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	406.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	105	
5°	106	10
15°	106	30
25°	106	49
35°	105	66
45°	101	78
55°	84	75
65°	58	58
75°	31	32
85°	7	8
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	105.3
2.5°	105.4
5°	105.5
7.5°	105.9
10°	106.0
12.5°	106.1
15°	106.3
17.5°	106.3
20°	106.3
22.5°	106.1
25°	106.0
27.5°	105.8
30°	105.5
32.5°	105.4
35°	105.2
37.5°	104.9
40°	104.4
42.5°	103.5
45°	101.0
47.5°	97.6
50°	93.5
52.5°	88.7
55°	83.7
57.5°	78.1
60°	72.0
62.5°	65.4
65°	58.5
67.5°	51.7
70°	44.4
72.5°	37.5
75°	30.6
77.5°	23.9
80°	17.9
82.5°	12.2
85°	7.1
87.5°	3.0
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	11.79	13.51	12.16	13.83	14.14	11.79	13.51	12.16	13.83	14.14
	3H	13.62	15.18	14.00	15.51	15.87	13.62	15.18	14.00	15.51	15.87
	4H	14.28	15.75	14.68	16.10	16.47	14.28	15.75	14.68	16.10	16.47
	6H	14.74	16.11	15.15	16.47	16.86	14.74	16.11	15.15	16.47	16.86
	8H	14.88	16.19	15.31	16.58	16.98	14.88	16.19	15.31	16.58	16.98
	12H	14.97	16.23	15.40	16.61	17.04	14.97	16.23	15.40	16.61	17.04
4H	2H	12.45	13.93	12.85	14.27	14.65	12.45	13.93	12.85	14.27	14.65
	3H	14.49	15.73	14.90	16.13	16.53	14.49	15.73	14.90	16.13	16.53
	4H	15.27	16.40	15.70	16.81	17.24	15.27	16.40	15.70	16.81	17.24
	6H	15.86	16.84	16.31	17.28	17.73	15.86	16.84	16.31	17.28	17.73
	8H	16.04	16.97	16.50	17.41	17.87	16.04	16.97	16.50	17.41	17.87
	12H	16.17	17.01	16.65	17.48	17.95	16.17	17.01	16.65	17.48	17.95
8H	4H	15.58	16.51	16.04	16.95	17.41	15.58	16.51	16.04	16.95	17.41
	6H	16.28	17.05	16.77	17.54	18.01	16.28	17.05	16.77	17.54	18.01
	8H	16.54	17.23	17.04	17.73	18.21	16.54	17.23	17.04	17.73	18.21
	12H	16.73	17.34	17.23	17.83	18.39	16.73	17.34	17.23	17.83	18.39
12H	4H	15.62	16.45	16.10	16.93	17.39	15.62	16.45	16.10	16.93	17.39
	6H	16.34	17.03	16.84	17.53	18.02	16.34	17.03	16.84	17.53	18.02
	8H	16.64	17.25	17.15	17.74	18.30	16.64	17.25	17.15	17.74	18.30