

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: P865416

Luminaire Tested: PRLX-2001-S-927-05L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-927-05L-L-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

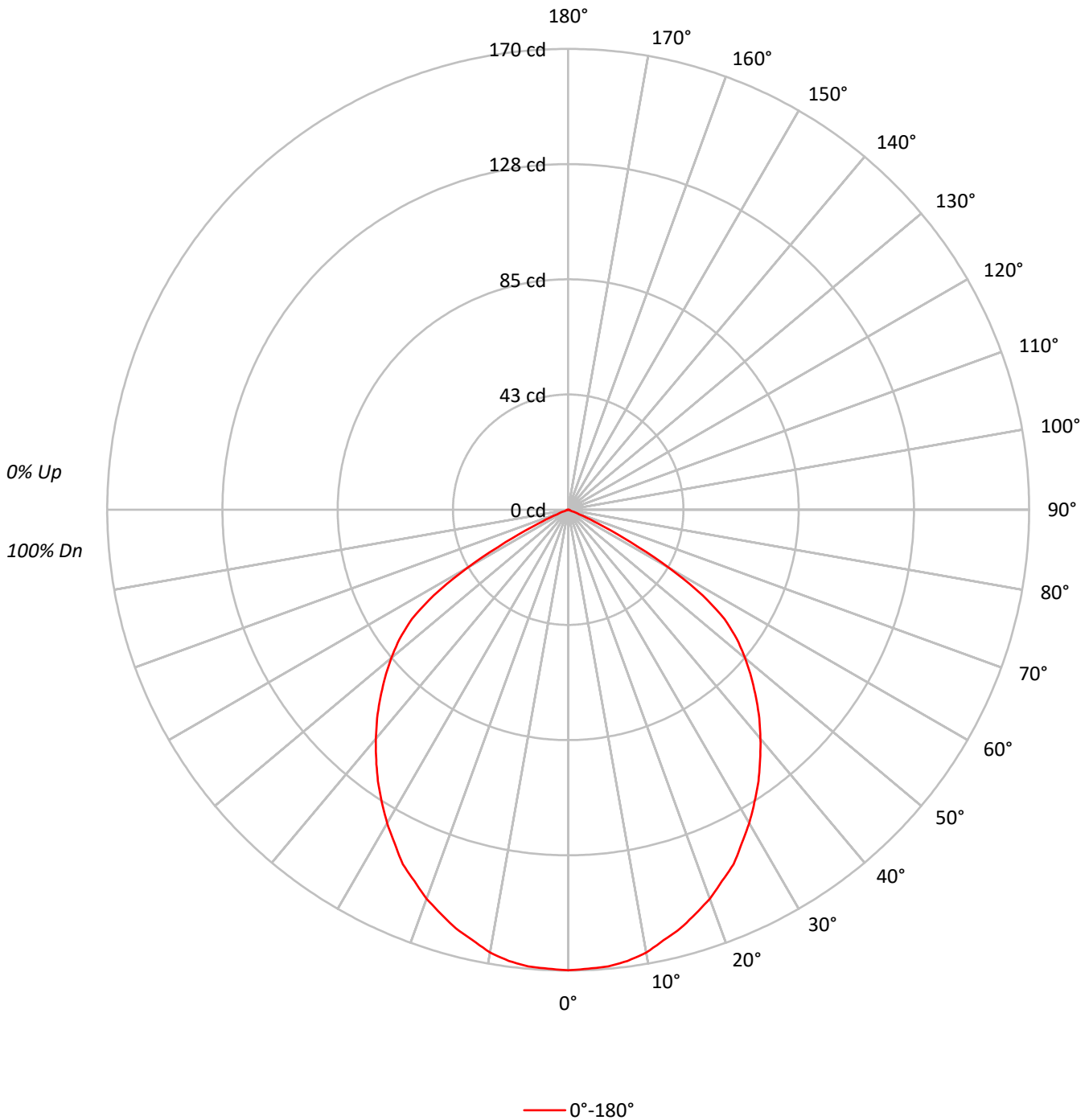
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 356.4 lumens  
Efficiency: N/A  
Efficacy: 57.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.29  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.2  
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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	70	62	56	80	69	62	56	67	61	56	65	60	55	64	59	54	53
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

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

	0°
0°	2771
5°	2769
10°	2748
15°	2700
20°	2650
25°	2597
30°	2514
35°	2435
40°	2348
45°	2258
50°	2162
55°	2002
60°	1409
65°	463
70°	38
75°	25
80°	38
85°	75

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2258 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.0	4.5
10°-20°	45.0	12.6
20°-30°	66.2	18.6
30°-40°	76.4	21.4
40°-50°	75.5	21.2
50°-60°	60.6	17.0
60°-70°	15.7	4.4
70°-80°	0.5	0.1
80°-90°	0.4	0.1
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°	127.3	35.7
0°-40°	203.7	57.2
0°-60°	339.9	95.4
0°-90°	356.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	356.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	170	
5°	169	16
15°	160	45
25°	144	66
35°	122	76
45°	98	76
55°	70	61
65°	12	16
75°	0	0
85°	0	0
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	169.9
2.5°	169.5
5°	169.1
7.5°	167.9
10°	165.9
12.5°	162.7
15°	159.9
17.5°	156.3
20°	152.7
22.5°	148.3
25°	144.3
27.5°	138.7
30°	133.5
32.5°	127.9
35°	122.3
37.5°	116.3
40°	110.3
42.5°	104.3
45°	97.9
47.5°	91.6
50°	85.2
52.5°	78.4
55°	70.4
57.5°	58.8
60°	43.2
62.5°	26.0
65°	12.0
67.5°	4.4
70°	0.8
72.5°	0.4
75°	0.4
77.5°	0.4
80°	0.4
82.5°	0.4
85°	0.4
87.5°	0.4
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	14.32	15.77	14.69	16.09	16.40	14.32	15.77	14.69	16.09	16.40
	3H	14.22	15.50	14.60	15.83	16.19	14.22	15.50	14.60	15.83	16.19
	4H	14.16	15.34	14.56	15.69	16.08	14.16	15.34	14.56	15.69	16.08
	6H	14.09	15.18	14.50	15.55	15.94	14.09	15.18	14.50	15.55	15.94
	8H	14.05	15.08	14.48	15.47	15.88	14.05	15.08	14.48	15.47	15.88
	12H	14.01	15.00	14.45	15.38	15.81	14.01	15.00	14.45	15.38	15.81
4H	2H	14.23	15.42	14.63	15.76	16.15	14.23	15.42	14.63	15.76	16.15
	3H	14.13	15.09	14.54	15.49	15.89	14.13	15.09	14.54	15.49	15.89
	4H	14.05	14.90	14.49	15.32	15.76	14.05	14.90	14.49	15.32	15.76
	6H	13.98	14.72	14.44	15.16	15.63	13.98	14.72	14.44	15.16	15.63
	8H	13.93	14.62	14.40	15.06	15.53	13.93	14.62	14.40	15.06	15.53
	12H	13.89	14.50	14.38	14.98	15.45	13.89	14.50	14.38	14.98	15.45
8H	4H	13.93	14.61	14.40	15.06	15.53	13.93	14.61	14.40	15.06	15.53
	6H	13.83	14.40	14.33	14.89	15.37	13.83	14.40	14.33	14.89	15.37
	8H	13.77	14.28	14.29	14.80	15.29	13.77	14.28	14.29	14.80	15.29
	12H	13.73	14.19	14.24	14.68	15.25	13.73	14.19	14.24	14.68	15.25
12H	4H	13.89	14.49	14.37	14.98	15.45	13.89	14.49	14.37	14.98	15.45
	6H	13.77	14.28	14.29	14.79	15.28	13.77	14.28	14.29	14.79	15.28
	8H	13.73	14.18	14.24	14.68	15.25	13.73	14.18	14.24	14.68	15.25