

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: P865438

Luminaire Tested: PRLX-2001-S-927-20L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-927-20L-G-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

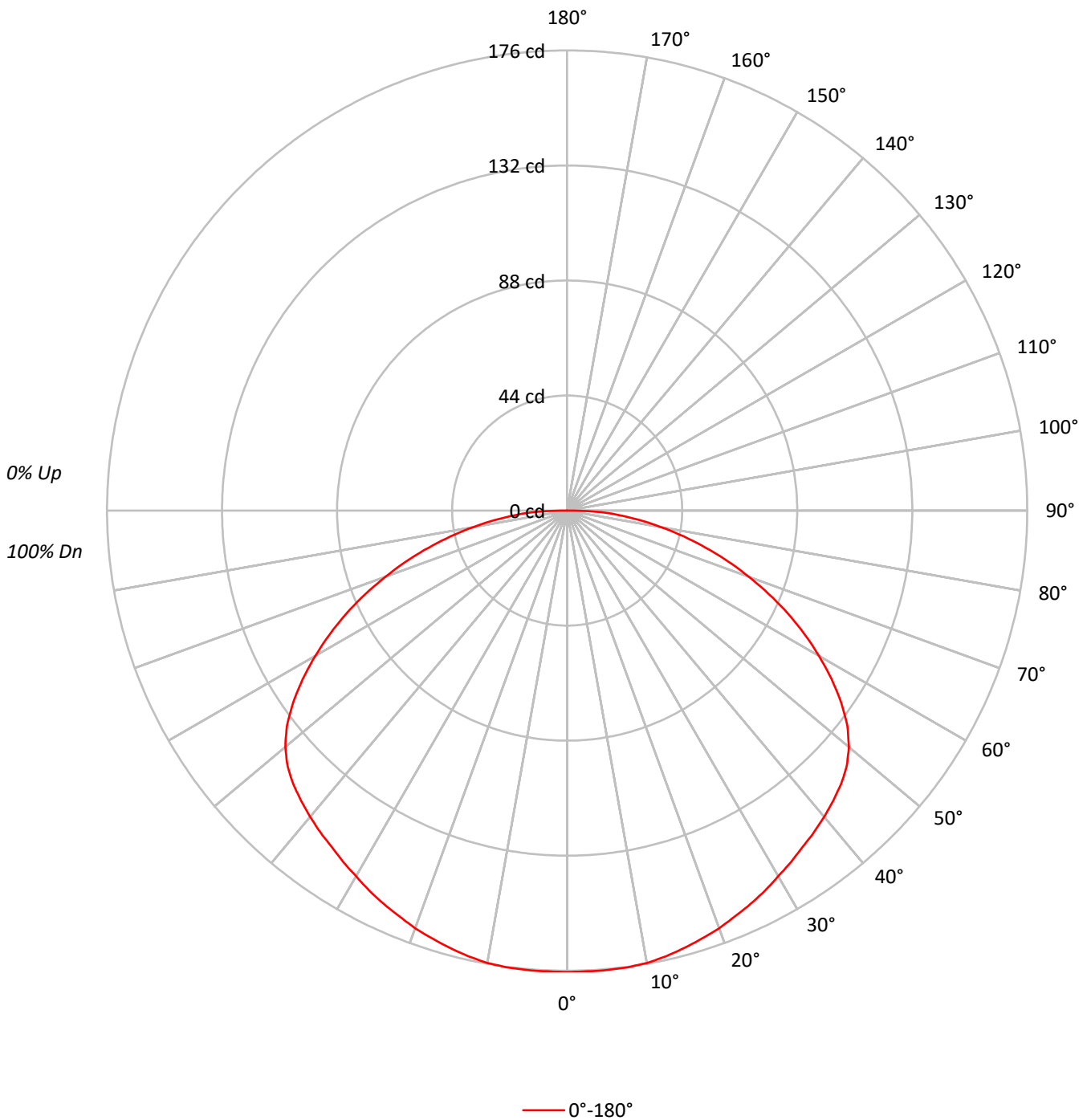
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 640.9 lumens  
Efficiency: N/A  
Efficacy: 29.4 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
Input Voltage (V): 120  
Input Current (Ain): 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	107	102	97	93	105	100	95	91	95	92	88		91	88	86		88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68	66
3	88	76	67	60	85	75	66	60	71	64	59		69	63	58		66	61	56	54
4	80	67	57	50	77	65	57	50	63	55	49		60	54	48		58	52	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36		48	41	36		47	40	35	33
7	62	48	39	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	58	43	34	28	56	43	34	28	41	34	28		40	33	28		39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	21

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

	0°
0°	2879
5°	2888
10°	2910
15°	2925
20°	2951
25°	2987
30°	3042
35°	3126
40°	3255
45°	3416
50°	3570
55°	3637
60°	3631
65°	3597
70°	3524
75°	3460
80°	3438
85°	3743

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 4861 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.8	2.6
10°-20°	49.0	7.6
20°-30°	76.7	12.0
30°-40°	98.6	15.4
40°-50°	114.2	17.8
50°-60°	113.9	17.8
60°-70°	92.0	14.4
70°-80°	58.1	9.1
80°-90°	21.6	3.4
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°	142.5	22.2
0°-40°	241.1	37.6
0°-60°	469.2	73.2
0°-90°	640.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	640.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	176	
5°	176	17
15°	173	49
25°	166	77
35°	157	99
45°	148	114
55°	128	114
65°	93	92
75°	55	58
85°	20	22
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	176.5
2.5°	176.4
5°	176.4
7.5°	176.2
10°	175.7
12.5°	174.6
15°	173.2
17.5°	171.6
20°	170.0
22.5°	167.9
25°	166.0
27.5°	163.9
30°	161.5
32.5°	159.4
35°	157.0
37.5°	155.1
40°	152.9
42.5°	150.6
45°	148.1
47.5°	145.0
50°	140.7
52.5°	135.1
55°	127.9
57.5°	119.9
60°	111.3
62.5°	102.3
65°	93.2
67.5°	83.6
70°	73.9
72.5°	64.4
75°	54.9
77.5°	45.6
80°	36.6
82.5°	28.0
85°	20.0
87.5°	13.0
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	16.97	18.71	17.34	19.02	19.33	16.97	18.71	17.34	19.02	19.33
	3H	18.99	20.57	19.36	20.89	21.25	18.99	20.57	19.36	20.89	21.25
	4H	19.80	21.30	20.20	21.64	22.02	19.80	21.30	20.20	21.64	22.02
	6H	20.48	21.87	20.89	22.23	22.62	20.48	21.87	20.89	22.23	22.62
	8H	20.74	22.07	21.16	22.46	22.86	20.74	22.07	21.16	22.46	22.86
	12H	20.97	22.25	21.40	22.63	23.06	20.97	22.25	21.40	22.63	23.06
4H	2H	17.68	19.17	18.07	19.52	19.89	17.68	19.17	18.07	19.52	19.89
	3H	19.92	21.19	20.33	21.58	21.98	19.92	21.19	20.33	21.58	21.98
	4H	20.88	22.03	21.31	22.44	22.88	20.88	22.03	21.31	22.44	22.88
	6H	21.71	22.72	22.16	23.16	23.61	21.71	22.72	22.16	23.16	23.61
	8H	22.04	22.99	22.50	23.43	23.89	22.04	22.99	22.50	23.43	23.89
	12H	22.34	23.20	22.82	23.67	24.14	22.34	23.20	22.82	23.67	24.14
8H	4H	21.28	22.23	21.73	22.67	23.13	21.28	22.23	21.73	22.67	23.13
	6H	22.26	23.06	22.75	23.55	24.02	22.26	23.06	22.75	23.55	24.02
	8H	22.70	23.42	23.20	23.92	24.40	22.70	23.42	23.20	23.92	24.40
	12H	23.11	23.75	23.62	24.24	24.80	23.11	23.75	23.62	24.24	24.80
12H	4H	21.34	22.20	21.82	22.67	23.14	21.34	22.20	21.82	22.67	23.14
	6H	22.36	23.08	22.87	23.59	24.07	22.36	23.08	22.87	23.59	24.07
	8H	22.88	23.52	23.38	24.00	24.56	22.88	23.52	23.38	24.00	24.56