

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: P865422

Luminaire Tested: PRLX-2001-S-927-10L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865422  
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-927-10L-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 2  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

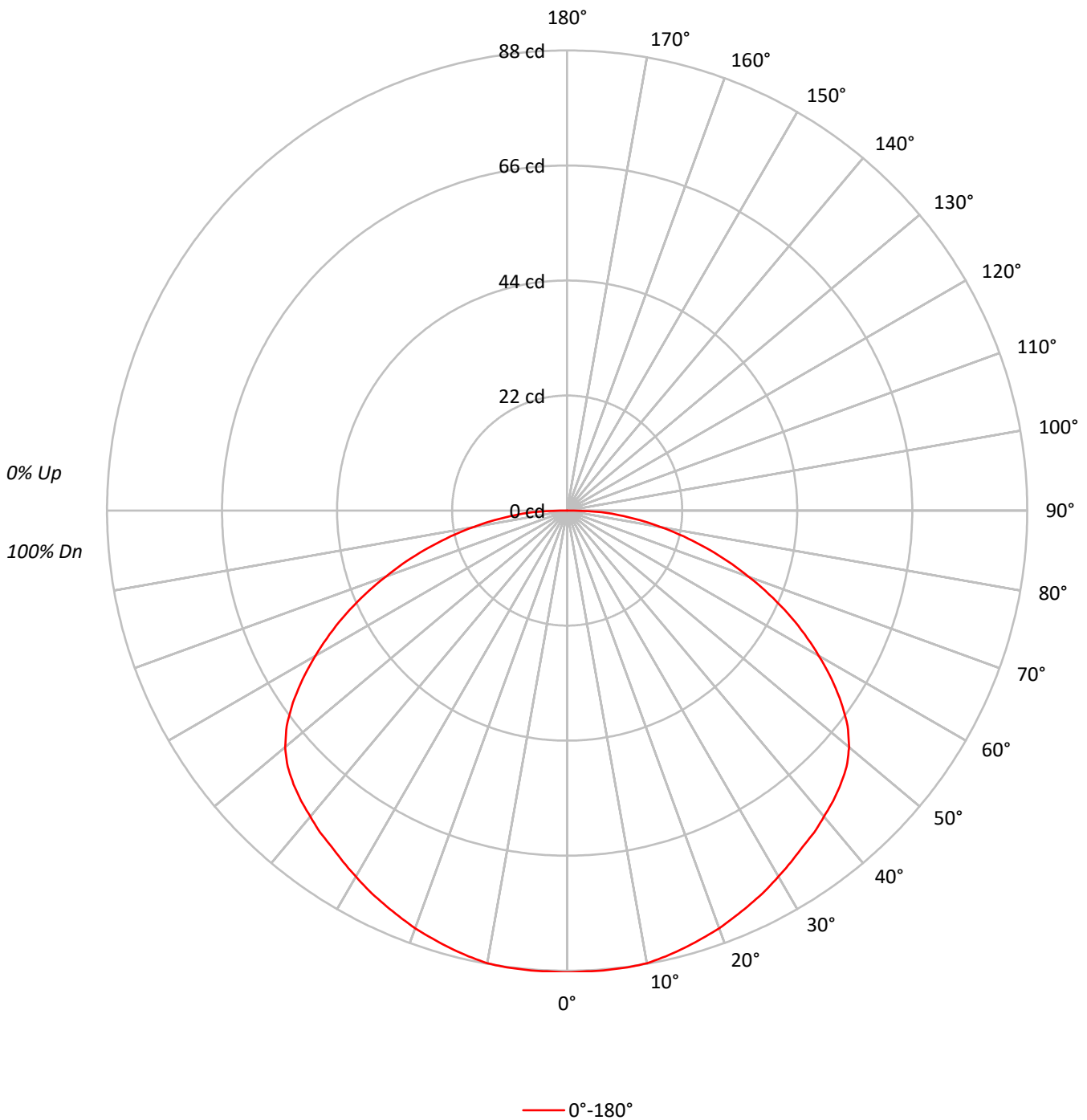
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 320.5 lumens  
Efficiency: N/A  
Efficacy: 30.5 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): 10.5  
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	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	44	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°	1440
5°	1444
10°	1456
15°	1462
20°	1475
25°	1494
30°	1522
35°	1563
40°	1627
45°	1707
50°	1786
55°	1820
60°	1814
65°	1798
70°	1760
75°	1727
80°	1719
85°	1871

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 2430 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.4	2.6
10°-20°	24.5	7.6
20°-30°	38.4	12.0
30°-40°	49.3	15.4
40°-50°	57.1	17.8
50°-60°	57.0	17.8
60°-70°	46.0	14.4
70°-80°	29.0	9.1
80°-90°	10.8	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°	71.2	22.2
0°-40°	120.6	37.6
0°-60°	234.6	73.2
0°-90°	320.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	320.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	88	
5°	88	8
15°	87	24
25°	83	38
35°	78	49
45°	74	57
55°	64	57
65°	47	46
75°	27	29
85°	10	11
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	88.3
2.5°	88.2
5°	88.2
7.5°	88.1
10°	87.9
12.5°	87.3
15°	86.6
17.5°	85.8
20°	85.0
22.5°	84.0
25°	83.0
27.5°	82.0
30°	80.8
32.5°	79.7
35°	78.5
37.5°	77.6
40°	76.4
42.5°	75.3
45°	74.0
47.5°	72.5
50°	70.4
52.5°	67.6
55°	64.0
57.5°	60.0
60°	55.6
62.5°	51.2
65°	46.6
67.5°	41.8
70°	36.9
72.5°	32.2
75°	27.4
77.5°	22.8
80°	18.3
82.5°	14.0
85°	10.0
87.5°	6.5
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	14.57	16.30	14.93	16.62	16.93	14.57	16.30	14.93	16.62	16.93
	3H	16.58	18.16	16.96	18.49	18.84	16.58	18.16	16.96	18.49	18.84
	4H	17.39	18.89	17.79	19.23	19.61	17.39	18.89	17.79	19.23	19.61
	6H	18.07	19.46	18.48	19.82	20.21	18.07	19.46	18.48	19.82	20.21
	8H	18.33	19.66	18.75	20.05	20.45	18.33	19.66	18.75	20.05	20.45
	12H	18.56	19.84	18.99	20.22	20.65	18.56	19.84	18.99	20.22	20.65
4H	2H	15.27	16.77	15.67	17.11	17.49	15.27	16.77	15.67	17.11	17.49
	3H	17.51	18.78	17.92	19.18	19.57	17.51	18.78	17.92	19.18	19.57
	4H	18.47	19.62	18.90	20.03	20.47	18.47	19.62	18.90	20.03	20.47
	6H	19.30	20.31	19.75	20.75	21.20	19.30	20.31	19.75	20.75	21.20
	8H	19.63	20.58	20.09	21.02	21.48	19.63	20.58	20.09	21.02	21.48
	12H	19.93	20.79	20.41	21.26	21.73	19.93	20.79	20.41	21.26	21.73
8H	4H	18.87	19.82	19.32	20.26	20.72	18.87	19.82	19.32	20.26	20.72
	6H	19.85	20.65	20.34	21.13	21.61	19.85	20.65	20.34	21.13	21.61
	8H	20.29	21.01	20.79	21.51	21.99	20.29	21.01	20.79	21.51	21.99
	12H	20.70	21.34	21.21	21.83	22.39	20.70	21.34	21.21	21.83	22.39
12H	4H	18.93	19.79	19.41	20.26	20.73	18.93	19.79	19.41	20.26	20.73
	6H	19.95	20.67	20.46	21.18	21.66	19.95	20.67	20.46	21.18	21.66
	8H	20.47	21.11	20.97	21.59	22.15	20.47	21.11	20.97	21.59	22.15