

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: P865894

Luminaire Tested: PRLX-2001-M-927-07L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-927-07L-G-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

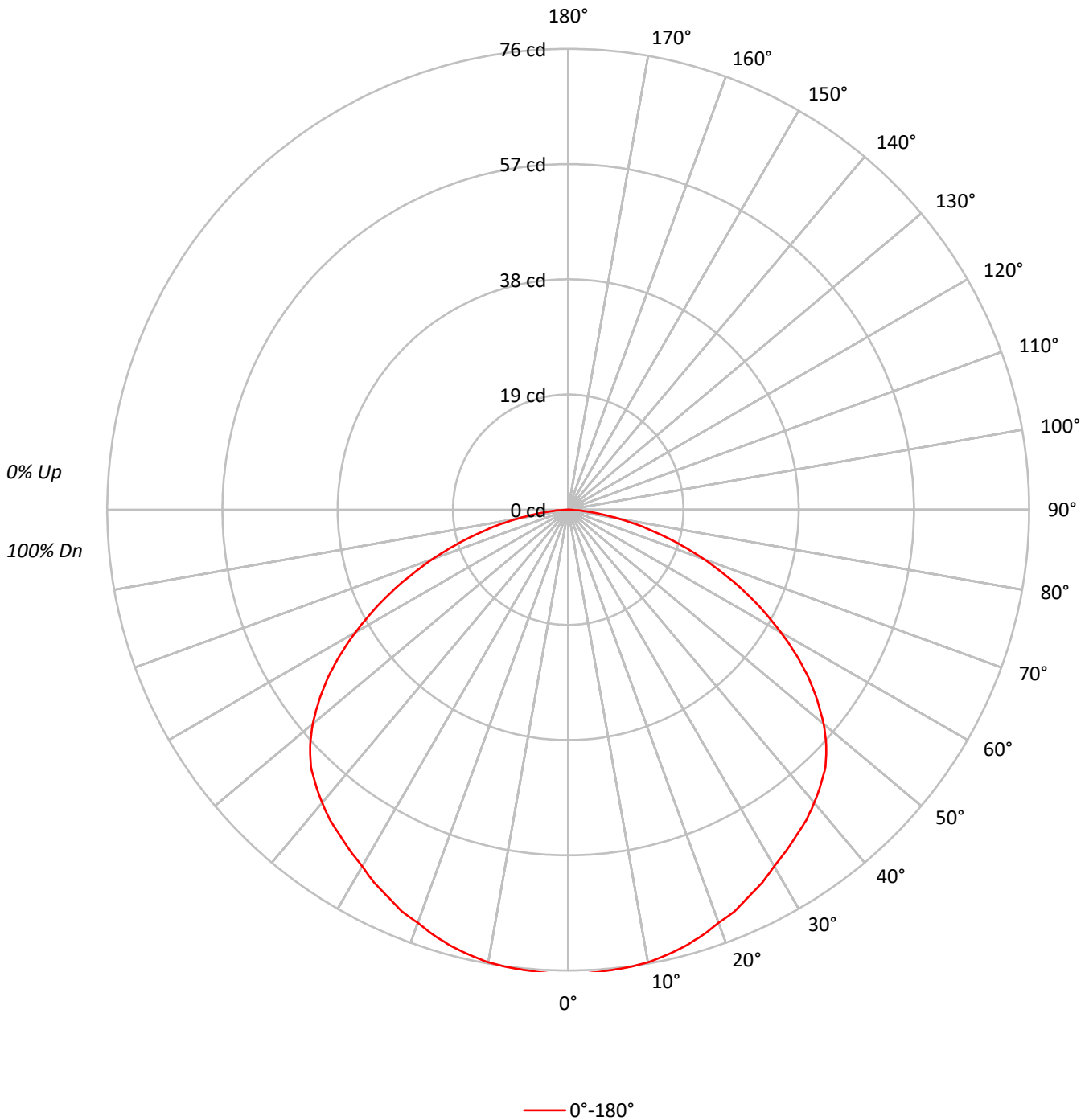
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 243.3 lumens  
Efficiency: N/A  
Efficacy: 29.7 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 8.2  
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°
0°	649
5°	650
10°	653
15°	655
20°	655
25°	659
30°	665
35°	680
40°	699
45°	720
50°	726
55°	716
60°	687
65°	647
70°	591
75°	511
80°	410
85°	282

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 726 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.3	3.0
10°-20°	21.0	8.6
20°-30°	32.5	13.4
30°-40°	41.2	16.9
40°-50°	46.1	18.9
50°-60°	43.1	17.7
60°-70°	31.8	13.1
70°-80°	16.7	6.9
80°-90°	3.6	1.5
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°	60.8	25.0
0°-40°	102.0	41.9
0°-60°	191.1	78.6
0°-90°	243.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	243.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	76	
5°	76	7
15°	74	21
25°	70	33
35°	66	41
45°	60	46
55°	48	43
65°	32	32
75°	16	17
85°	3	4
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	76.5
2.5°	76.5
5°	76.3
7.5°	76.1
10°	75.8
12.5°	75.2
15°	74.5
17.5°	73.6
20°	72.5
22.5°	71.7
25°	70.4
27.5°	69.3
30°	67.9
32.5°	66.8
35°	65.6
37.5°	64.5
40°	63.1
42.5°	61.6
45°	60.0
47.5°	57.7
50°	55.0
52.5°	51.8
55°	48.4
57.5°	44.6
60°	40.5
62.5°	36.4
65°	32.2
67.5°	27.9
70°	23.8
72.5°	19.7
75°	15.6
77.5°	12.0
80°	8.4
82.5°	5.4
85°	2.9
87.5°	0.9
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	11.27	12.94	11.63	13.25	13.57	11.27	12.94	11.63	13.25	13.57
	3H	12.92	14.44	13.30	14.76	15.12	12.92	14.44	13.30	14.76	15.12
	4H	13.49	14.91	13.88	15.26	15.63	13.49	14.91	13.88	15.26	15.63
	6H	13.85	15.17	14.26	15.53	15.92	13.85	15.17	14.26	15.53	15.92
	8H	13.94	15.20	14.36	15.59	15.99	13.94	15.20	14.36	15.59	15.99
	12H	13.98	15.19	14.41	15.57	16.00	13.98	15.19	14.41	15.57	16.00
4H	2H	11.87	13.30	12.27	13.64	14.02	11.87	13.30	12.27	13.64	14.02
	3H	13.74	14.93	14.15	15.33	15.73	13.74	14.93	14.15	15.33	15.73
	4H	14.41	15.49	14.84	15.90	16.34	14.41	15.49	14.84	15.90	16.34
	6H	14.88	15.82	15.33	16.26	16.72	14.88	15.82	15.33	16.26	16.72
	8H	15.00	15.88	15.46	16.32	16.79	15.00	15.88	15.46	16.32	16.79
	12H	15.07	15.87	15.55	16.34	16.81	15.07	15.87	15.55	16.34	16.81
8H	4H	14.67	15.55	15.13	16.00	16.46	14.67	15.55	15.13	16.00	16.46
	6H	15.23	15.96	15.72	16.45	16.92	15.23	15.96	15.72	16.45	16.92
	8H	15.40	16.05	15.91	16.56	17.05	15.40	16.05	15.91	16.56	17.05
	12H	15.52	16.10	16.02	16.59	17.15	15.52	16.10	16.02	16.59	17.15
12H	4H	14.69	15.48	15.17	15.96	16.43	14.69	15.48	15.17	15.96	16.43
	6H	15.26	15.91	15.76	16.42	16.90	15.26	15.91	15.76	16.42	16.90
	8H	15.47	16.05	15.98	16.54	17.10	15.47	16.05	15.98	16.54	17.10