

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: P865735

Luminaire Tested: PRLX-2004-S-927-05L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865735  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-S-927-05L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

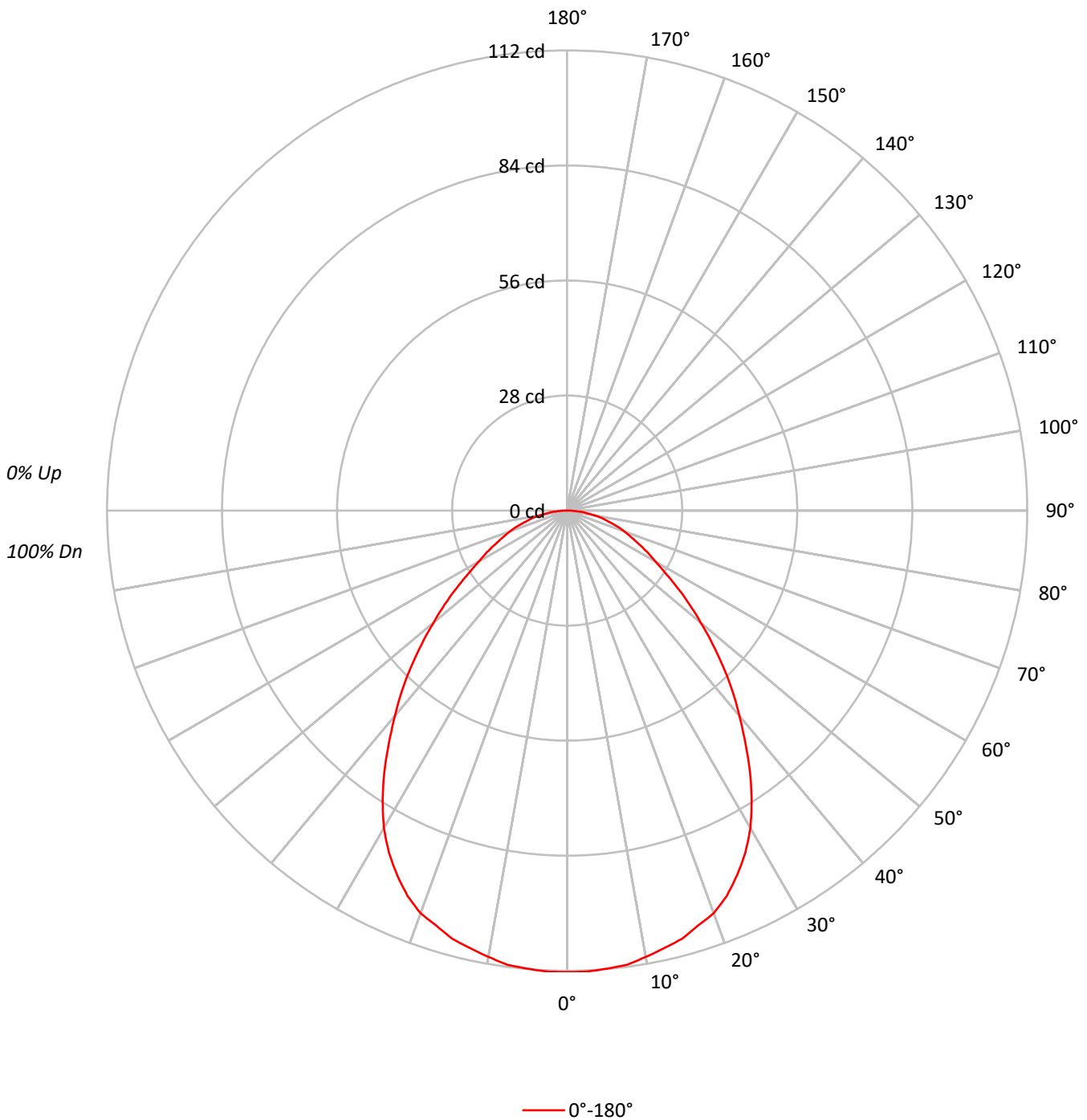
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 239.3 lumens  
Efficiency: N/A  
Efficacy: 38.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.2  
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

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

	0°
0°	1832
5°	1832
10°	1827
15°	1822
20°	1810
25°	1762
30°	1680
35°	1545
40°	1388
45°	1236
50°	1076
55°	933
60°	809
65°	741
70°	706
75°	655
80°	639
85°	599

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1236 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.6	4.4
10°-20°	30.4	12.7
20°-30°	44.9	18.8
30°-40°	48.3	20.2
40°-50°	41.4	17.3
50°-60°	29.5	12.3
60°-70°	19.2	8.0
70°-80°	11.3	4.7
80°-90°	3.5	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°	86.0	35.9
0°-40°	134.3	56.1
0°-60°	205.2	85.8
0°-90°	239.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	239.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	112	
5°	112	11
15°	108	30
25°	98	45
35°	78	48
45°	54	41
55°	33	30
65°	19	19
75°	10	11
85°	3	4
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	112.3
2.5°	112.3
5°	111.9
7.5°	111.5
10°	110.3
12.5°	109.1
15°	107.9
17.5°	105.9
20°	104.3
22.5°	101.5
25°	97.9
27.5°	93.9
30°	89.2
32.5°	83.6
35°	77.6
37.5°	71.2
40°	65.2
42.5°	59.6
45°	53.6
47.5°	48.0
50°	42.4
52.5°	37.6
55°	32.8
57.5°	28.4
60°	24.8
62.5°	22.0
65°	19.2
67.5°	16.8
70°	14.8
72.5°	12.8
75°	10.4
77.5°	8.8
80°	6.8
82.5°	4.8
85°	3.2
87.5°	1.6
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	10.67	12.16	11.03	12.48	12.79	10.67	12.16	11.03	12.48	12.79
	3H	12.20	13.54	12.58	13.87	14.23	12.20	13.54	12.58	13.87	14.23
	4H	12.82	14.08	13.22	14.42	14.80	12.82	14.08	13.22	14.42	14.80
	6H	13.34	14.50	13.75	14.86	15.26	13.34	14.50	13.75	14.86	15.26
	8H	13.51	14.61	13.94	15.00	15.40	13.51	14.61	13.94	15.00	15.40
	12H	13.63	14.69	14.07	15.07	15.50	13.63	14.69	14.07	15.07	15.50
4H	2H	11.17	12.42	11.57	12.77	13.15	11.17	12.42	11.57	12.77	13.15
	3H	12.96	14.00	13.37	14.40	14.80	12.96	14.00	13.37	14.40	14.80
	4H	13.71	14.65	14.14	15.06	15.50	13.71	14.65	14.14	15.06	15.50
	6H	14.37	15.19	14.83	15.63	16.09	14.37	15.19	14.83	15.63	16.09
	8H	14.59	15.36	15.06	15.80	16.27	14.59	15.36	15.06	15.80	16.27
	12H	14.77	15.46	15.25	15.93	16.41	14.77	15.46	15.25	15.93	16.41
8H	4H	14.00	14.76	14.46	15.21	15.68	14.00	14.76	14.46	15.21	15.68
	6H	14.80	15.43	15.29	15.92	16.40	14.80	15.43	15.29	15.92	16.40
	8H	15.10	15.67	15.61	16.18	16.67	15.10	15.67	15.61	16.18	16.67
	12H	15.37	15.87	15.88	16.36	16.93	15.37	15.87	15.88	16.36	16.93
12H	4H	14.03	14.71	14.51	15.19	15.66	14.03	14.71	14.51	15.19	15.66
	6H	14.85	15.42	15.37	15.93	16.42	14.85	15.42	15.37	15.93	16.42
	8H	15.22	15.72	15.73	16.22	16.78	15.22	15.72	15.73	16.22	16.78