

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: P865747

Luminaire Tested: PRLX-2004-S-927-10L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-S-927-10L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

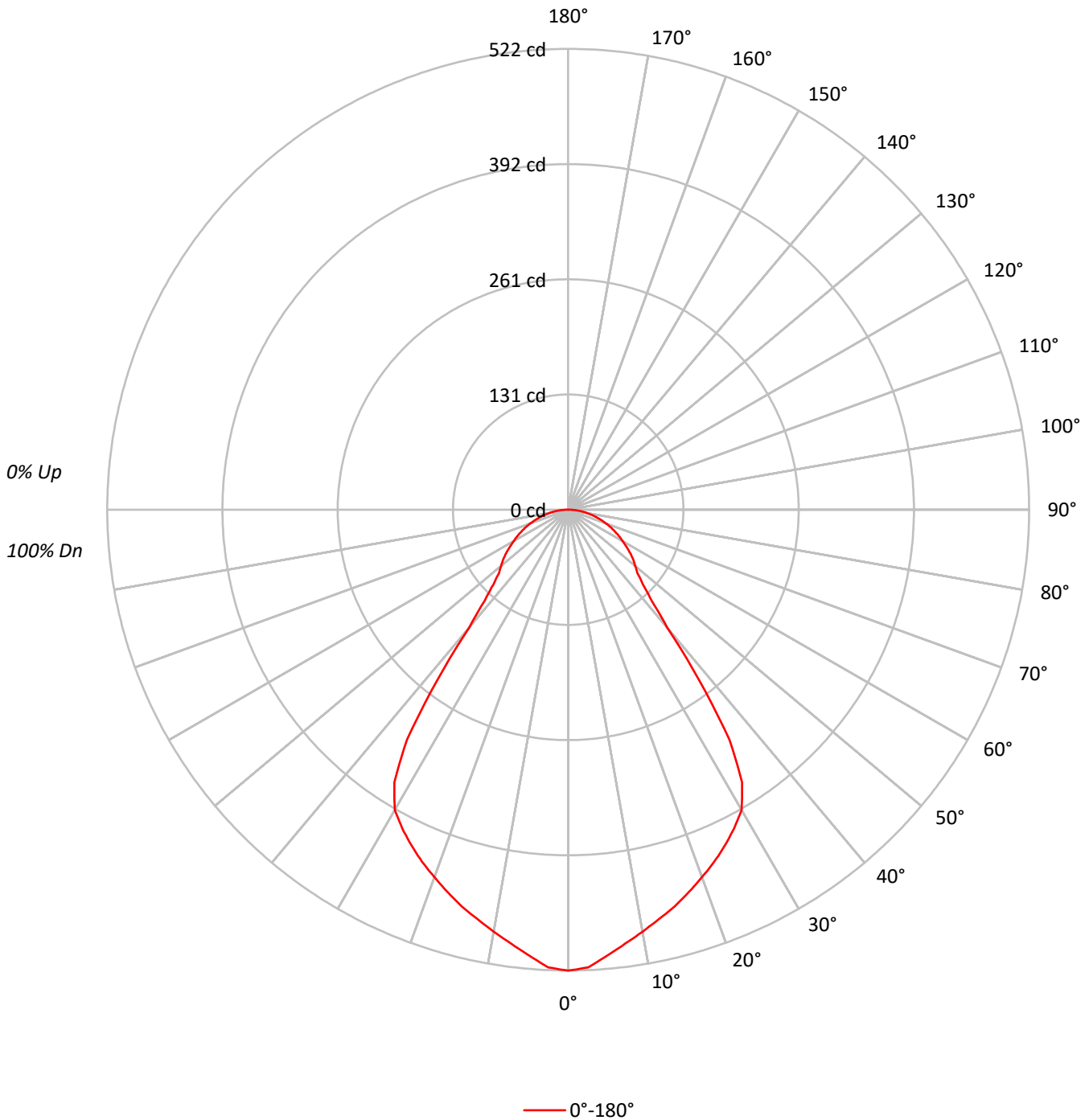
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 837.1 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.07  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 10.5  
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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49
7	72	61	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

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

	0°
0°	8516
5°	8299
10°	8037
15°	7857
20°	7689
25°	7555
30°	7394
35°	6336
40°	3711
45°	2766
50°	2515
55°	2434
60°	2323
65°	2254
70°	2175
75°	2117
80°	2029
85°	1946

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2766 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.7	5.7
10°-20°	131.1	15.7
20°-30°	193.3	23.1
30°-40°	187.5	22.4
40°-50°	96.6	11.5
50°-60°	76.4	9.1
60°-70°	57.8	6.9
70°-80°	35.2	4.2
80°-90°	11.4	1.4
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°	372.1	44.5
0°-40°	559.6	66.9
0°-60°	732.7	87.5
0°-90°	837.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	837.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	522	
5°	507	48
15°	465	131
25°	420	193
35°	318	188
45°	120	97
55°	86	76
65°	58	58
75°	34	35
85°	10	11
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	522.1
2.5°	518.9
5°	506.9
7.5°	495.7
10°	485.3
12.5°	474.9
15°	465.3
17.5°	454.2
20°	443.0
22.5°	431.8
25°	419.8
27.5°	407.0
30°	392.6
32.5°	366.2
35°	318.2
37.5°	243.9
40°	174.3
42.5°	139.9
45°	119.9
47.5°	106.3
50°	99.1
52.5°	92.7
55°	85.6
57.5°	78.4
60°	71.2
62.5°	64.8
65°	58.4
67.5°	52.0
70°	45.6
72.5°	39.2
75°	33.6
77.5°	27.2
80°	21.6
82.5°	16.0
85°	10.4
87.5°	4.8
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	13.56	14.92	13.92	15.23	15.55	13.56	14.92	13.92	15.23	15.55
	3H	15.38	16.60	15.76	16.93	17.30	15.38	16.60	15.76	16.93	17.30
	4H	16.11	17.26	16.51	17.61	17.99	16.11	17.26	16.51	17.61	17.99
	6H	16.68	17.74	17.10	18.11	18.50	16.68	17.74	17.10	18.11	18.50
	8H	16.89	17.90	17.32	18.29	18.69	16.89	17.90	17.32	18.29	18.69
	12H	17.05	18.01	17.48	18.39	18.82	17.05	18.01	17.48	18.39	18.82
4H	2H	14.15	15.30	14.55	15.65	16.03	14.15	15.30	14.55	15.65	16.03
	3H	16.20	17.15	16.61	17.55	17.95	16.20	17.15	16.61	17.55	17.95
	4H	17.07	17.92	17.50	18.34	18.78	17.07	17.92	17.50	18.34	18.78
	6H	17.78	18.52	18.24	18.97	19.43	17.78	18.52	18.24	18.97	19.43
	8H	18.04	18.74	18.51	19.19	19.65	18.04	18.74	18.51	19.19	19.65
	12H	18.25	18.87	18.73	19.35	19.82	18.25	18.87	18.73	19.35	19.82
8H	4H	17.38	18.07	17.85	18.52	18.99	17.38	18.07	17.85	18.52	18.99
	6H	18.24	18.81	18.74	19.30	19.78	18.24	18.81	18.74	19.30	19.78
	8H	18.60	19.11	19.12	19.62	20.11	18.60	19.11	19.12	19.62	20.11
	12H	18.90	19.35	19.42	19.85	20.41	18.90	19.35	19.42	19.85	20.41
12H	4H	17.41	18.03	17.89	18.51	18.98	17.41	18.03	17.89	18.51	18.98
	6H	18.31	18.82	18.83	19.33	19.82	18.31	18.82	18.83	19.33	19.82
	8H	18.73	19.18	19.25	19.68	20.24	18.73	19.18	19.25	19.68	20.24