

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: P867039

Luminaire Tested: PRLX-2002-L-930-83L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-930-83L-L-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

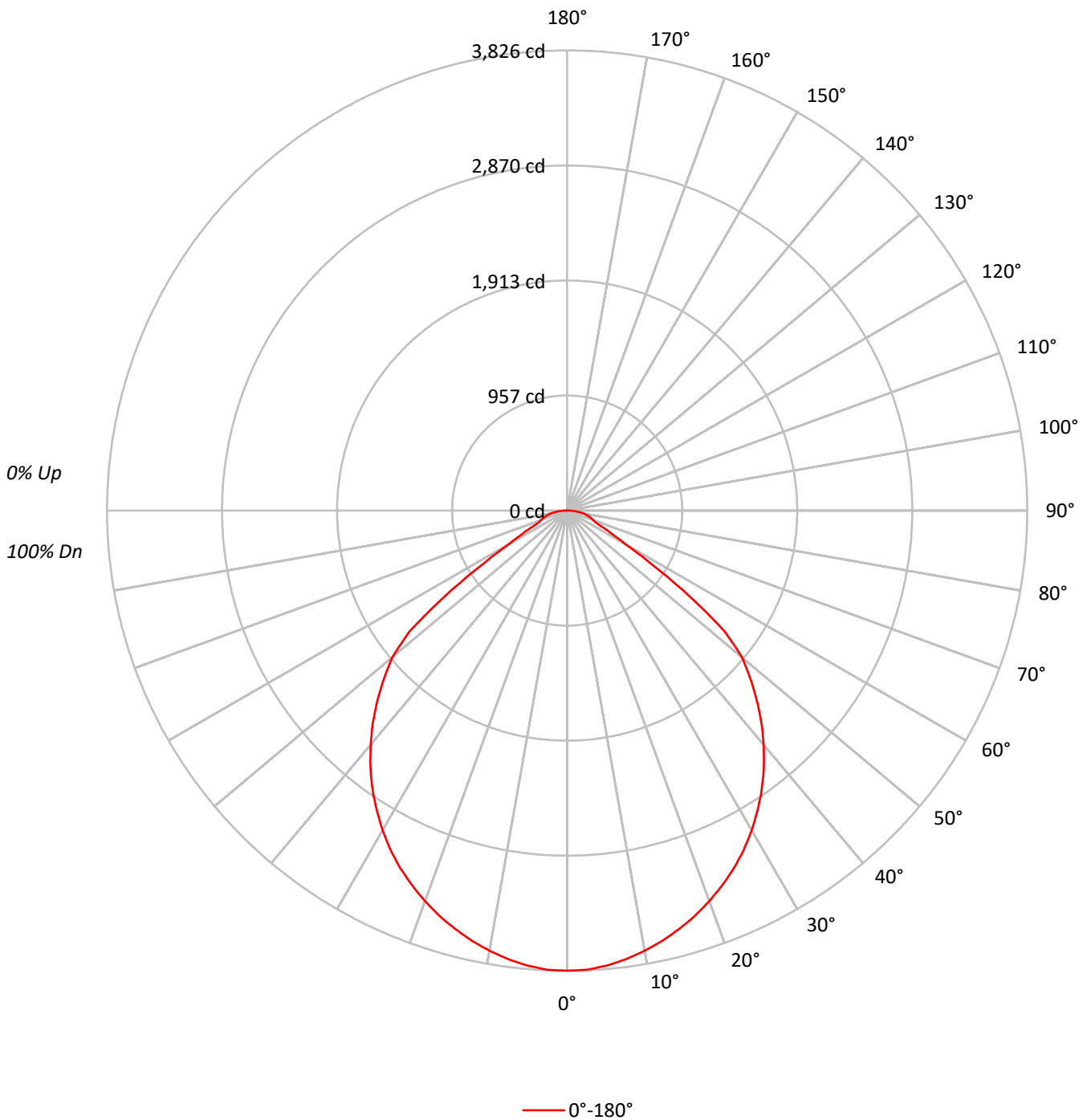
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8081.4 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 64.5  
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: 0.333 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	105	101	99	101	98	96	97	95	93	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	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

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

	0°
0°	18876
5°	18807
10°	18612
15°	18388
20°	18140
25°	17858
30°	17479
35°	17003
40°	16368
45°	15557
50°	14557
55°	10662
60°	5572
65°	3714
70°	3321
75°	3529
80°	3858
85°	4251

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15557 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.8	4.5
10°-20°	1015.4	12.6
20°-30°	1509.9	18.7
30°-40°	1762.5	21.8
40°-50°	1717.1	21.2
50°-60°	1100.0	13.6
60°-70°	342.5	4.2
70°-80°	195.1	2.4
80°-90°	79.0	1.0
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°	2885.1	35.7
0°-40°	4647.6	57.5
0°-60°	7464.8	92.4
0°-90°	8081.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8081.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3826	
5°	3797	360
15°	3600	1015
25°	3280	1510
35°	2823	1762
45°	2230	1717
55°	1240	1100
65°	318	343
75°	185	195
85°	75	79
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3825.9
2.5°	3820.1
5°	3797.3
7.5°	3761.5
10°	3715.1
12.5°	3662.9
15°	3600.0
17.5°	3532.8
20°	3454.9
22.5°	3371.2
25°	3280.4
27.5°	3180.4
30°	3068.1
32.5°	2948.7
35°	2822.9
37.5°	2687.1
40°	2541.3
42.5°	2390.4
45°	2229.6
47.5°	2065.2
50°	1896.5
52.5°	1650.6
55°	1239.5
57.5°	839.2
60°	564.7
62.5°	421.0
65°	318.1
67.5°	252.3
70°	230.2
72.5°	209.5
75°	185.1
77.5°	161.6
80°	135.8
82.5°	107.2
85°	75.1
87.5°	40.0
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	17.76	19.21	18.12	19.52	19.84	17.76	19.21	18.12	19.52	19.84
	3H	18.17	19.46	18.55	19.79	20.16	18.17	19.46	18.55	19.79	20.16
	4H	18.46	19.66	18.86	20.01	20.39	18.46	19.66	18.86	20.01	20.39
	6H	18.78	19.88	19.19	20.25	20.65	18.78	19.88	19.19	20.25	20.65
	8H	18.92	19.98	19.35	20.37	20.77	18.92	19.98	19.35	20.37	20.77
	12H	19.05	20.05	19.48	20.44	20.87	19.05	20.05	19.48	20.44	20.87
4H	2H	17.82	19.02	18.22	19.37	19.75	17.82	19.02	18.22	19.37	19.75
	3H	18.43	19.41	18.84	19.82	20.22	18.43	19.41	18.84	19.82	20.22
	4H	18.85	19.73	19.29	20.15	20.59	18.85	19.73	19.29	20.15	20.59
	6H	19.35	20.11	19.81	20.55	21.02	19.35	20.11	19.81	20.55	21.02
	8H	19.57	20.28	20.03	20.73	21.20	19.57	20.28	20.03	20.73	21.20
	12H	19.77	20.41	20.25	20.89	21.36	19.77	20.41	20.25	20.89	21.36
8H	4H	19.00	19.71	19.46	20.16	20.63	19.00	19.71	19.46	20.16	20.63
	6H	19.63	20.22	20.13	20.72	21.20	19.63	20.22	20.13	20.72	21.20
	8H	19.95	20.49	20.47	21.00	21.49	19.95	20.49	20.47	21.00	21.49
	12H	20.26	20.74	20.77	21.23	21.80	20.26	20.74	20.77	21.23	21.80
12H	4H	19.01	19.65	19.50	20.13	20.60	19.01	19.65	19.50	20.13	20.60
	6H	19.68	20.21	20.19	20.73	21.22	19.68	20.21	20.19	20.73	21.22
	8H	20.06	20.54	20.57	21.04	21.60	20.06	20.54	20.57	21.04	21.60