

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: P866087

Luminaire Tested: PRLX-2001-M-940-07L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866087  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-940-07L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

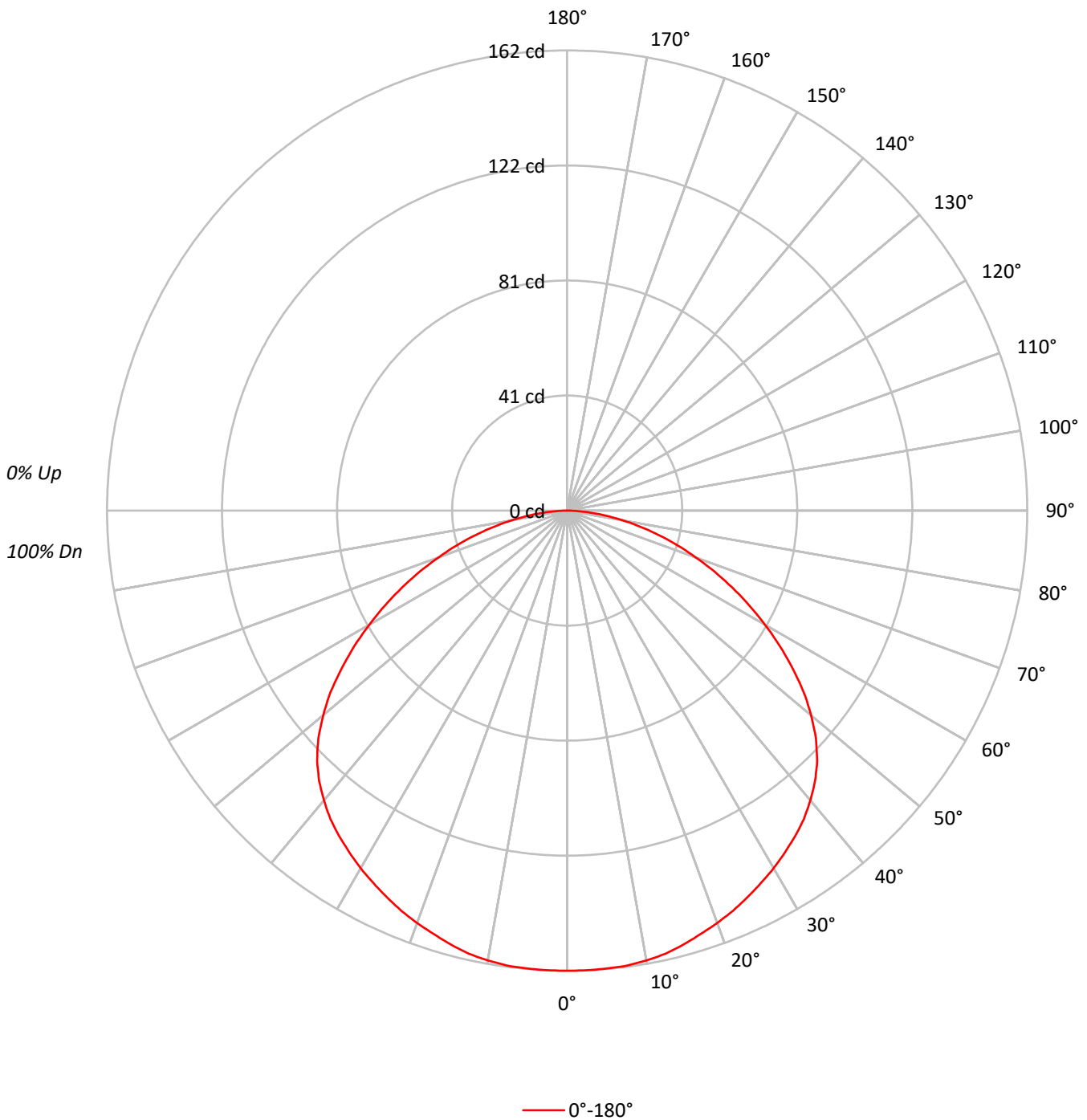
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 507.9 lumens  
Efficiency: N/A  
Efficacy: 61.9 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47  
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: 0.333 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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

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

	0°
0°	1375
5°	1378
10°	1386
15°	1390
20°	1395
25°	1406
30°	1425
35°	1449
40°	1476
45°	1494
50°	1480
55°	1434
60°	1366
65°	1287
70°	1193
75°	1098
80°	972
85°	789

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1494 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.4	3.0
10°-20°	44.7	8.8
20°-30°	69.4	13.7
30°-40°	87.6	17.2
40°-50°	95.6	18.8
50°-60°	86.5	17.0
60°-70°	63.5	12.5
70°-80°	35.5	7.0
80°-90°	9.6	1.9
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°	129.5	25.5
0°-40°	217.1	42.7
0°-60°	399.3	78.6
0°-90°	507.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	507.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	162	
5°	162	15
15°	158	45
25°	150	69
35°	140	88
45°	124	96
55°	97	87
65°	64	64
75°	34	36
85°	8	10
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	162.0
2.5°	162.0
5°	161.8
7.5°	161.6
10°	160.8
12.5°	159.8
15°	158.2
17.5°	156.3
20°	154.5
22.5°	152.5
25°	150.2
27.5°	147.8
30°	145.4
32.5°	142.7
35°	139.9
37.5°	136.9
40°	133.2
42.5°	129.2
45°	124.5
47.5°	118.8
50°	112.1
52.5°	105.0
55°	96.9
57.5°	88.8
60°	80.5
62.5°	72.2
65°	64.1
67.5°	56.2
70°	48.1
72.5°	40.8
75°	33.5
77.5°	26.4
80°	19.9
82.5°	13.8
85°	8.1
87.5°	3.6
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	13.50	15.17	13.87	15.48	15.80	13.50	15.17	13.87	15.48	15.80
	3H	15.20	16.70	15.57	17.03	17.39	15.20	16.70	15.57	17.03	17.39
	4H	15.82	17.24	16.22	17.59	17.97	15.82	17.24	16.22	17.59	17.97
	6H	16.28	17.60	16.69	17.96	18.35	16.28	17.60	16.69	17.96	18.35
	8H	16.42	17.68	16.85	18.07	18.47	16.42	17.68	16.85	18.07	18.47
	12H	16.52	17.72	16.94	18.10	18.53	16.52	17.72	16.94	18.10	18.53
4H	2H	14.11	15.52	14.50	15.87	16.25	14.11	15.52	14.50	15.87	16.25
	3H	16.02	17.21	16.43	17.61	18.01	16.02	17.21	16.43	17.61	18.01
	4H	16.78	17.85	17.21	18.27	18.70	16.78	17.85	17.21	18.27	18.70
	6H	17.36	18.30	17.81	18.74	19.19	17.36	18.30	17.81	18.74	19.19
	8H	17.55	18.43	18.01	18.87	19.34	17.55	18.43	18.01	18.87	19.34
	12H	17.68	18.47	18.16	18.95	19.42	17.68	18.47	18.16	18.95	19.42
8H	4H	17.07	17.95	17.53	18.40	18.86	17.07	17.95	17.53	18.40	18.86
	6H	17.77	18.50	18.26	18.99	19.47	17.77	18.50	18.26	18.99	19.47
	8H	18.03	18.69	18.54	19.19	19.68	18.03	18.69	18.54	19.19	19.68
	12H	18.23	18.81	18.73	19.30	19.86	18.23	18.81	18.73	19.30	19.86
12H	4H	17.11	17.90	17.58	18.37	18.84	17.11	17.90	17.58	18.37	18.84
	6H	17.82	18.48	18.33	18.99	19.47	17.82	18.48	18.33	18.99	19.47
	8H	18.14	18.72	18.64	19.21	19.77	18.14	18.72	18.64	19.21	19.77