

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: P865535

Luminaire Tested: PRLX-2001-S-940-05L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-940-05L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

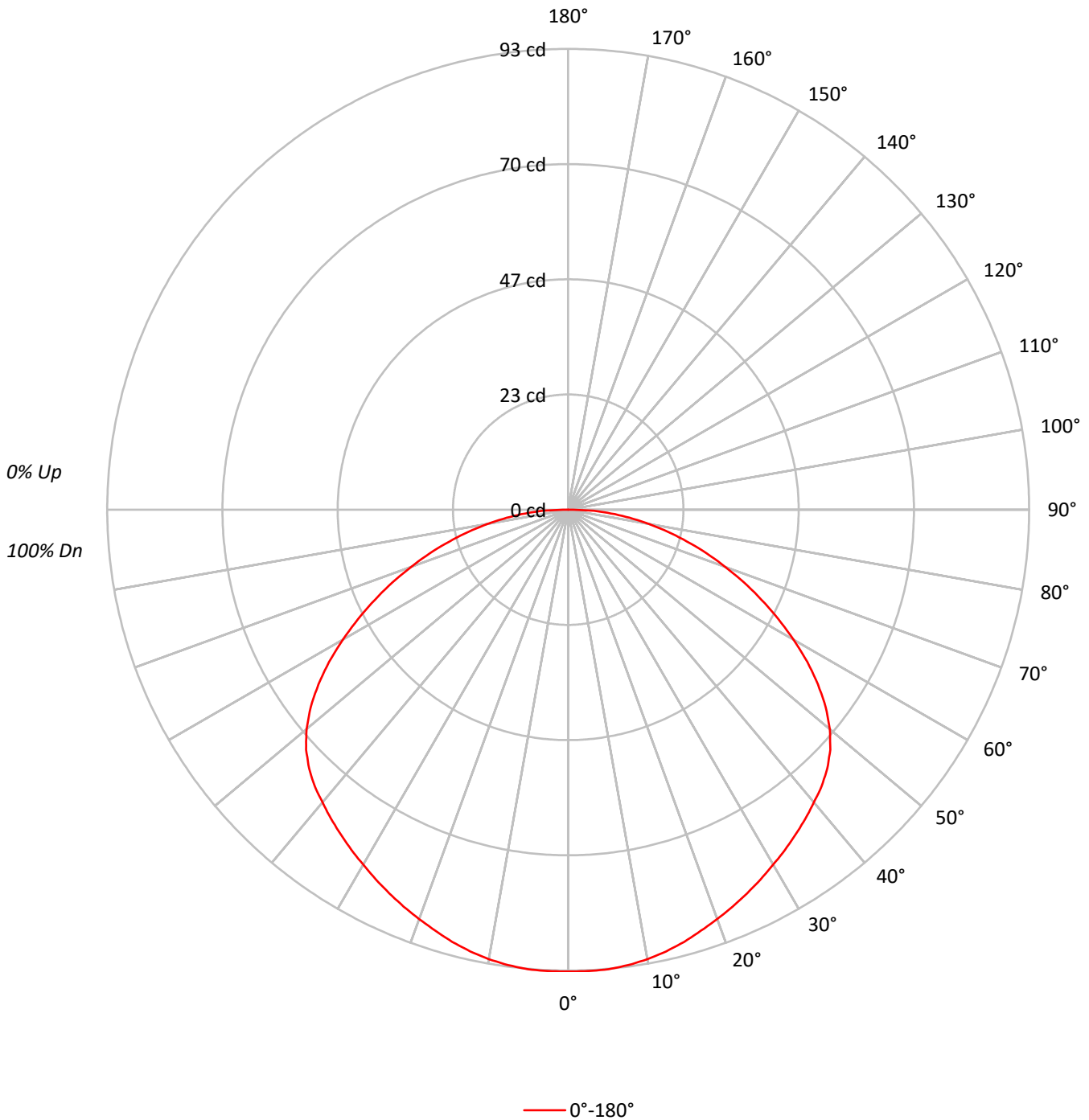
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 314.1 lumens  
Efficiency: N/A  
Efficacy: 50.7 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.2  
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69
3	88	77	68	61	86	75	67	61	72	66	60	70	64	59	67	62	58
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37
7	63	49	40	33	61	48	39	33	46	38	33	45	38	33	43	37	32
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23

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

	0°
0°	1520
5°	1524
10°	1525
15°	1525
20°	1526
25°	1537
30°	1558
35°	1593
40°	1642
45°	1705
50°	1748
55°	1749
60°	1713
65°	1660
70°	1607
75°	1563
80°	1550
85°	1628

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 1944 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.9	2.8
10°-20°	25.5	8.1
20°-30°	39.4	12.6
30°-40°	50.2	16.0
40°-50°	56.9	18.1
50°-60°	54.8	17.4
60°-70°	42.6	13.6
70°-80°	26.3	8.4
80°-90°	9.4	3.0
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°	73.8	23.5
0°-40°	124.0	39.5
0°-60°	235.7	75.0
0°-90°	314.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	314.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	93	
5°	93	9
15°	90	25
25°	85	39
35°	80	50
45°	74	57
55°	62	55
65°	43	43
75°	25	26
85°	9	9
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	93.2
2.5°	93.2
5°	93.1
7.5°	92.7
10°	92.1
12.5°	91.3
15°	90.3
17.5°	89.1
20°	87.9
22.5°	86.7
25°	85.4
27.5°	84.1
30°	82.7
32.5°	81.4
35°	80.0
37.5°	78.6
40°	77.1
42.5°	75.7
45°	73.9
47.5°	71.7
50°	68.9
52.5°	65.5
55°	61.5
57.5°	57.2
60°	52.5
62.5°	47.8
65°	43.0
67.5°	38.4
70°	33.7
72.5°	29.3
75°	24.8
77.5°	20.6
80°	16.5
82.5°	12.5
85°	8.7
87.5°	5.2
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	14.33	16.04	14.70	16.36	16.67	14.33	16.04	14.70	16.36	16.67
	3H	16.22	17.78	16.60	18.10	18.46	16.22	17.78	16.60	18.10	18.46
	4H	16.99	18.46	17.38	18.80	19.18	16.99	18.46	17.38	18.80	19.18
	6H	17.62	18.99	18.03	19.35	19.74	17.62	18.99	18.03	19.35	19.74
	8H	17.87	19.18	18.29	19.57	19.96	17.87	19.18	18.29	19.57	19.96
	12H	18.08	19.33	18.50	19.71	20.14	18.08	19.33	18.50	19.71	20.14
4H	2H	14.99	16.46	15.39	16.81	17.18	14.99	16.46	15.39	16.81	17.18
	3H	17.12	18.36	17.53	18.76	19.15	17.12	18.36	17.53	18.76	19.15
	4H	18.03	19.15	18.46	19.57	20.00	18.03	19.15	18.46	19.57	20.00
	6H	18.82	19.81	19.27	20.24	20.70	18.82	19.81	19.27	20.24	20.70
	8H	19.13	20.06	19.59	20.50	20.96	19.13	20.06	19.59	20.50	20.96
	12H	19.40	20.24	19.88	20.71	21.18	19.40	20.24	19.88	20.71	21.18
8H	4H	18.40	19.33	18.86	19.77	20.23	18.40	19.33	18.86	19.77	20.23
	6H	19.34	20.12	19.83	20.61	21.08	19.34	20.12	19.83	20.61	21.08
	8H	19.76	20.46	20.26	20.96	21.44	19.76	20.46	20.26	20.96	21.44
	12H	20.14	20.76	20.64	21.25	21.81	20.14	20.76	20.64	21.25	21.81
12H	4H	18.46	19.30	18.94	19.77	20.24	18.46	19.30	18.94	19.77	20.24
	6H	19.44	20.14	19.94	20.64	21.13	19.44	20.14	19.94	20.64	21.13
	8H	19.93	20.55	20.43	21.04	21.59	19.93	20.55	20.43	21.04	21.59