

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: P865567

Luminaire Tested: PRLX-2001-S-940-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865567  
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-940-25L-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 5  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

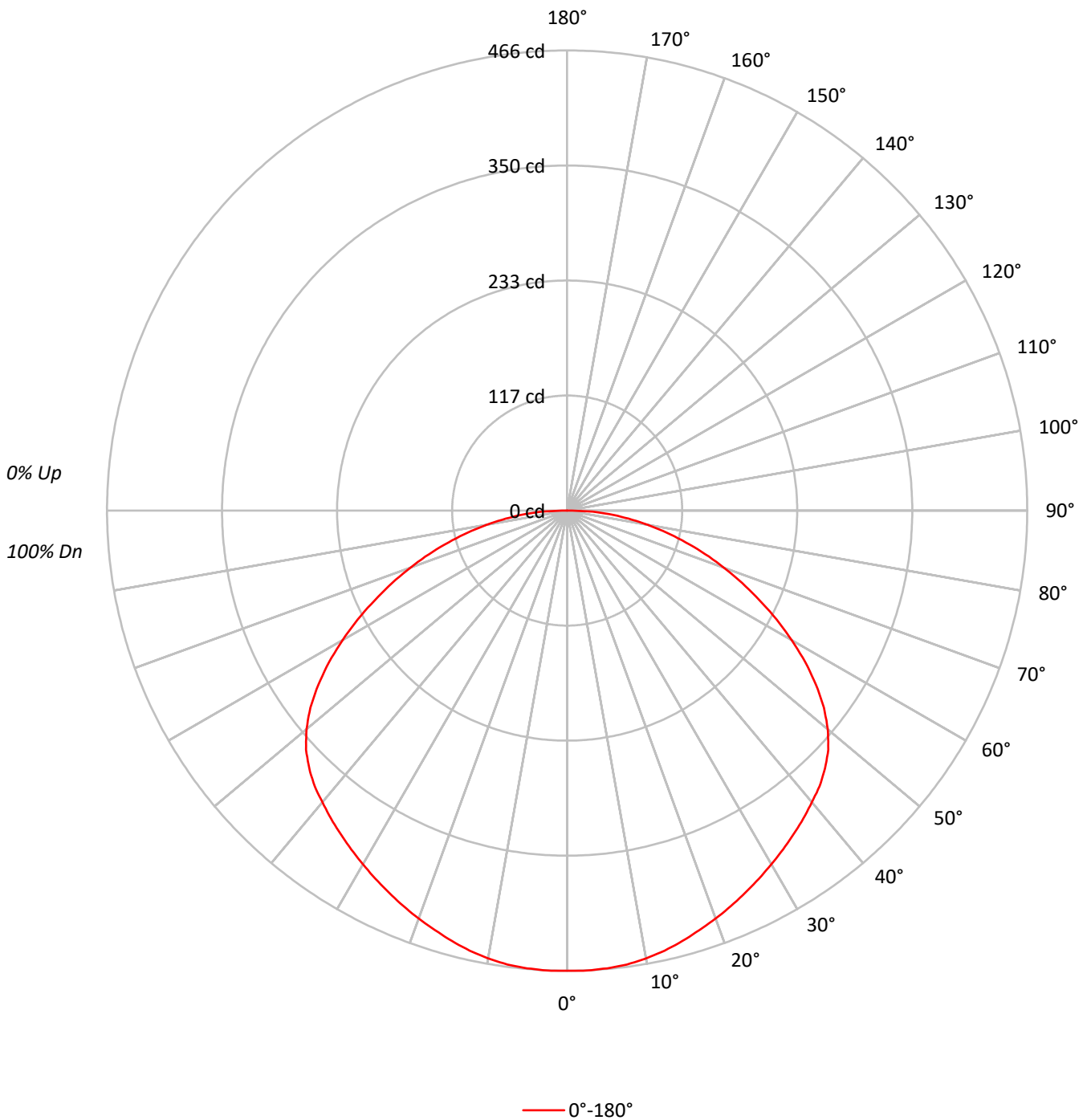
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1570.6 lumens  
Efficiency: N/A  
Efficacy: 54.0 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): 29.1  
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	108	103	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	38	33		45	38	33		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	23		34	28	23	21

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

	0°
0°	7601
5°	7618
10°	7628
15°	7620
20°	7630
25°	7683
30°	7789
35°	7964
40°	8208
45°	8521
50°	8744
55°	8747
60°	8569
65°	8298
70°	8045
75°	7827
80°	7758
85°	8103

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 9722 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.3	2.8
10°-20°	127.5	8.1
20°-30°	197.2	12.6
30°-40°	250.8	16.0
40°-50°	284.5	18.1
50°-60°	274.1	17.4
60°-70°	213.2	13.6
70°-80°	131.8	8.4
80°-90°	47.2	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°	369.0	23.5
0°-40°	619.8	39.5
0°-60°	1178.4	75.0
0°-90°	1570.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1570.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	466	
5°	465	44
15°	451	127
25°	427	197
35°	400	251
45°	369	284
55°	308	274
65°	215	213
75°	124	132
85°	43	47
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	466.0
2.5°	466.2
5°	465.3
7.5°	463.7
10°	460.6
12.5°	456.4
15°	451.3
17.5°	445.4
20°	439.6
22.5°	433.5
25°	426.9
27.5°	420.4
30°	413.6
32.5°	406.8
35°	400.0
37.5°	393.0
40°	385.5
42.5°	378.5
45°	369.4
47.5°	358.6
50°	344.6
52.5°	327.7
55°	307.6
57.5°	286.1
60°	262.7
62.5°	239.1
65°	215.0
67.5°	191.8
70°	168.7
72.5°	146.7
75°	124.2
77.5°	103.2
80°	82.6
82.5°	62.7
85°	43.3
87.5°	26.0
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	19.93	21.64	20.29	21.95	22.26	19.93	21.64	20.29	21.95	22.26
	3H	21.82	23.37	22.19	23.70	24.06	21.82	23.37	22.19	23.70	24.06
	4H	22.58	24.05	22.98	24.40	24.77	22.58	24.05	22.98	24.40	24.77
	6H	23.22	24.59	23.63	24.95	25.34	23.22	24.59	23.63	24.95	25.34
	8H	23.47	24.77	23.89	25.16	25.56	23.47	24.77	23.89	25.16	25.56
	12H	23.67	24.93	24.10	25.31	25.73	23.67	24.93	24.10	25.31	25.73
4H	2H	20.58	22.05	20.98	22.40	22.77	20.58	22.05	20.98	22.40	22.77
	3H	22.71	23.95	23.12	24.35	24.75	22.71	23.95	23.12	24.35	24.75
	4H	23.62	24.75	24.05	25.16	25.59	23.62	24.75	24.05	25.16	25.59
	6H	24.41	25.40	24.86	25.84	26.29	24.41	25.40	24.86	25.84	26.29
	8H	24.73	25.66	25.18	26.10	26.56	24.73	25.66	25.18	26.10	26.56
	12H	25.00	25.84	25.47	26.31	26.78	25.00	25.84	25.47	26.31	26.78
8H	4H	24.00	24.93	24.45	25.37	25.83	24.00	24.93	24.45	25.37	25.83
	6H	24.94	25.72	25.43	26.21	26.68	24.94	25.72	25.43	26.21	26.68
	8H	25.36	26.06	25.86	26.56	27.04	25.36	26.06	25.86	26.56	27.04
	12H	25.74	26.36	26.24	26.85	27.40	25.74	26.36	26.24	26.85	27.40
12H	4H	24.06	24.90	24.53	25.37	25.84	24.06	24.90	24.53	25.37	25.84
	6H	25.04	25.74	25.54	26.24	26.72	25.04	25.74	25.54	26.24	26.72
	8H	25.52	26.15	26.03	26.64	27.19	25.52	26.15	26.03	26.64	27.19