

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: P865487

Luminaire Tested: PRLX-2001-S-930-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865487  
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-930-25L-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

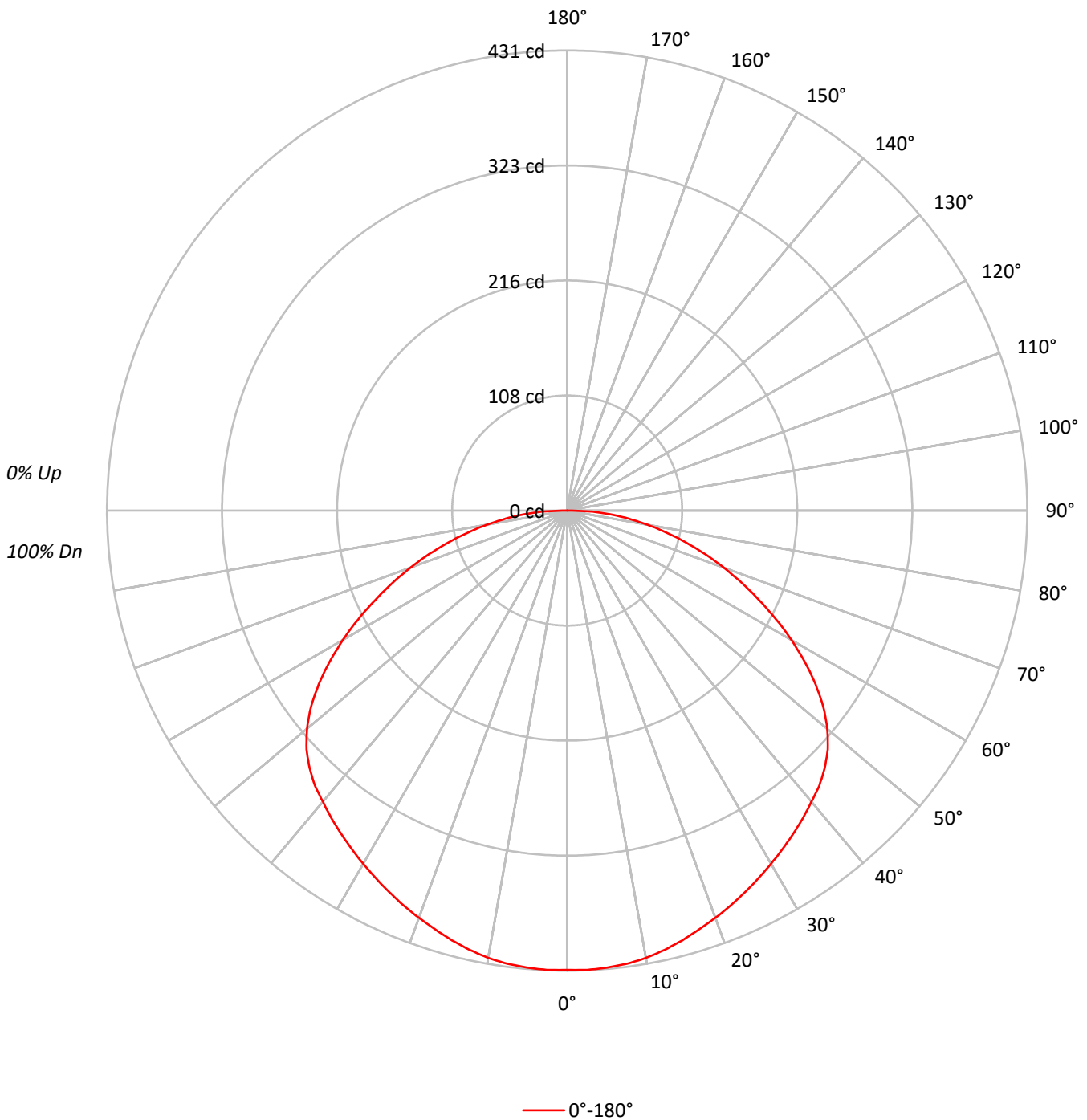
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1450.4 lumens  
Efficiency: N/A  
Efficacy: 49.8 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 (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	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°	7018
5°	7035
10°	7045
15°	7036
20°	7045
25°	7096
30°	7194
35°	7355
40°	7580
45°	7868
50°	8074
55°	8079
60°	7914
65°	7661
70°	7430
75°	7228
80°	7167
85°	7486

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 8974 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.9	2.8
10°-20°	117.7	8.1
20°-30°	182.1	12.6
30°-40°	231.6	16.0
40°-50°	262.7	18.1
50°-60°	253.1	17.5
60°-70°	196.9	13.6
70°-80°	121.8	8.4
80°-90°	43.6	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°	340.7	23.5
0°-40°	572.4	39.5
0°-60°	1088.2	75.0
0°-90°	1450.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1450.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	430	
5°	430	41
15°	417	118
25°	394	182
35°	369	232
45°	341	263
55°	284	253
65°	198	197
75°	115	122
85°	40	44
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	430.3
2.5°	430.6
5°	429.7
7.5°	428.2
10°	425.4
12.5°	421.5
15°	416.7
17.5°	411.3
20°	405.9
22.5°	400.3
25°	394.3
27.5°	388.2
30°	382.0
32.5°	375.7
35°	369.4
37.5°	362.9
40°	356.0
42.5°	349.6
45°	341.1
47.5°	331.2
50°	318.2
52.5°	302.7
55°	284.1
57.5°	264.2
60°	242.6
62.5°	220.8
65°	198.5
67.5°	177.2
70°	155.8
72.5°	135.5
75°	114.7
77.5°	95.3
80°	76.3
82.5°	57.9
85°	40.0
87.5°	24.0
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	19.65	21.36	20.01	21.67	21.99	19.65	21.36	20.01	21.67	21.99
	3H	21.54	23.10	21.92	23.42	23.78	21.54	23.10	21.92	23.42	23.78
	4H	22.31	23.77	22.70	24.12	24.49	22.31	23.77	22.70	24.12	24.49
	6H	22.94	24.31	23.35	24.67	25.06	22.94	24.31	23.35	24.67	25.06
	8H	23.19	24.50	23.61	24.89	25.28	23.19	24.50	23.61	24.89	25.28
	12H	23.40	24.65	23.82	25.03	25.46	23.40	24.65	23.82	25.03	25.46
4H	2H	20.31	21.78	20.70	22.12	22.50	20.31	21.78	20.70	22.12	22.50
	3H	22.44	23.68	22.84	24.07	24.47	22.44	23.68	22.84	24.07	24.47
	4H	23.34	24.47	23.77	24.88	25.32	23.34	24.47	23.77	24.88	25.32
	6H	24.14	25.13	24.59	25.57	26.02	24.14	25.13	24.59	25.57	26.02
	8H	24.45	25.38	24.91	25.82	26.28	24.45	25.38	24.91	25.82	26.28
	12H	24.72	25.56	25.20	26.03	26.50	24.72	25.56	25.20	26.03	26.50
8H	4H	23.72	24.65	24.18	25.09	25.55	23.72	24.65	24.18	25.09	25.55
	6H	24.67	25.45	25.16	25.93	26.40	24.67	25.45	25.16	25.93	26.40
	8H	25.08	25.78	25.58	26.28	26.77	25.08	25.78	25.58	26.28	26.77
	12H	25.46	26.08	25.96	26.57	27.13	25.46	26.08	25.96	26.57	27.13
12H	4H	23.78	24.62	24.26	25.09	25.56	23.78	24.62	24.26	25.09	25.56
	6H	24.76	25.46	25.26	25.97	26.45	24.76	25.46	25.26	25.97	26.45
	8H	25.25	25.87	25.75	26.36	26.92	25.25	25.87	25.75	26.36	26.92