

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: P865455

Luminaire Tested: PRLX-2001-S-930-05L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865455  
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-930-05L-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

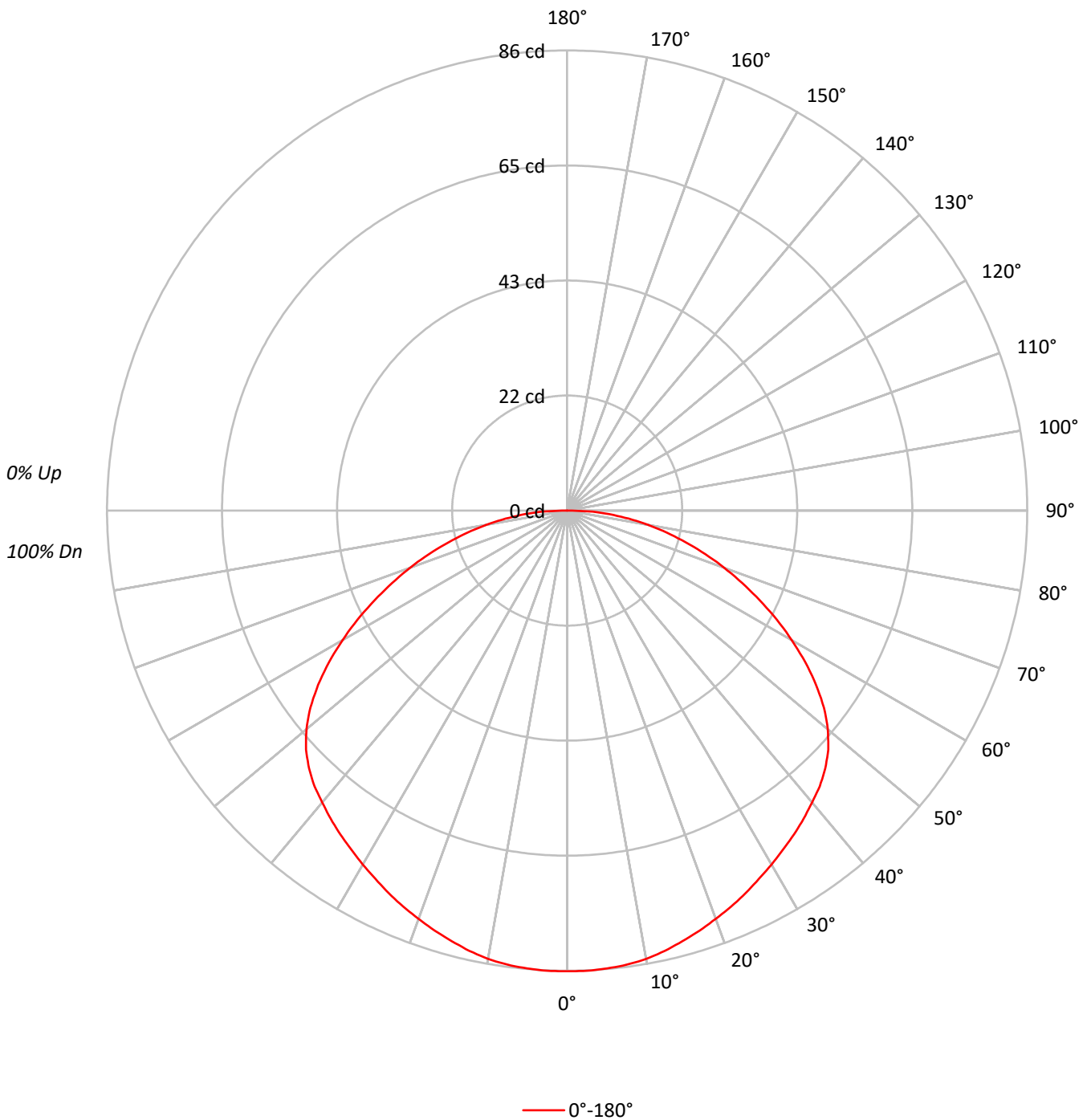
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 290.1 lumens  
Efficiency: N/A  
Efficacy: 46.8 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): 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	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°	1404
5°	1406
10°	1409
15°	1407
20°	1409
25°	1420
30°	1439
35°	1471
40°	1516
45°	1573
50°	1614
55°	1615
60°	1582
65°	1532
70°	1488
75°	1443
80°	1437
85°	1497

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 1795 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.2	2.8
10°-20°	23.5	8.1
20°-30°	36.4	12.6
30°-40°	46.3	16.0
40°-50°	52.5	18.1
50°-60°	50.6	17.4
60°-70°	39.4	13.6
70°-80°	24.4	8.4
80°-90°	8.7	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°	68.2	23.5
0°-40°	114.5	39.5
0°-60°	217.6	75.0
0°-90°	290.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	290.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	86	
5°	86	8
15°	83	24
25°	79	36
35°	74	46
45°	68	53
55°	57	51
65°	40	39
75°	23	24
85°	8	9
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	86.1
2.5°	86.1
5°	85.9
7.5°	85.6
10°	85.1
12.5°	84.3
15°	83.3
17.5°	82.3
20°	81.2
22.5°	80.1
25°	78.9
27.5°	77.6
30°	76.4
32.5°	75.1
35°	73.9
37.5°	72.6
40°	71.2
42.5°	69.9
45°	68.2
47.5°	66.2
50°	63.6
52.5°	60.5
55°	56.8
57.5°	52.8
60°	48.5
62.5°	44.2
65°	39.7
67.5°	35.4
70°	31.2
72.5°	27.1
75°	22.9
77.5°	19.1
80°	15.3
82.5°	11.6
85°	8.0
87.5°	4.8
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	14.05	15.76	14.42	16.08	16.39	14.05	15.76	14.42	16.08	16.39
	3H	15.95	17.50	16.32	17.83	18.18	15.95	17.50	16.32	17.83	18.18
	4H	16.71	18.18	17.11	18.53	18.90	16.71	18.18	17.11	18.53	18.90
	6H	17.35	18.72	17.76	19.08	19.47	17.35	18.72	17.76	19.08	19.47
	8H	17.60	18.91	18.02	19.30	19.69	17.60	18.91	18.02	19.30	19.69
	12H	17.80	19.06	18.23	19.44	19.87	17.80	19.06	18.23	19.44	19.87
4H	2H	14.71	16.18	15.11	16.53	16.90	14.71	16.18	15.11	16.53	16.90
	3H	16.84	18.08	17.25	18.48	18.88	16.84	18.08	17.25	18.48	18.88
	4H	17.75	18.88	18.18	19.29	19.72	17.75	18.88	18.18	19.29	19.72
	6H	18.55	19.54	19.00	19.97	20.43	18.55	19.54	19.00	19.97	20.43
	8H	18.86	19.79	19.32	20.23	20.69	18.86	19.79	19.32	20.23	20.69
	12H	19.13	19.97	19.61	20.44	20.91	19.13	19.97	19.61	20.44	20.91
8H	4H	18.13	19.06	18.58	19.50	19.96	18.13	19.06	18.58	19.50	19.96
	6H	19.08	19.86	19.57	20.34	20.81	19.08	19.86	19.57	20.34	20.81
	8H	19.49	20.19	20.00	20.70	21.18	19.49	20.19	20.00	20.70	21.18
	12H	19.87	20.50	20.38	20.98	21.54	19.87	20.50	20.38	20.98	21.54
12H	4H	18.19	19.03	18.66	19.50	19.97	18.19	19.03	18.66	19.50	19.97
	6H	19.17	19.87	19.68	20.38	20.86	19.17	19.87	19.68	20.38	20.86
	8H	19.66	20.28	20.16	20.77	21.33	19.66	20.28	20.16	20.77	21.33