

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: P865471

Luminaire Tested: PRLX-2001-S-930-15L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865471  
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-930-15L-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 3  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

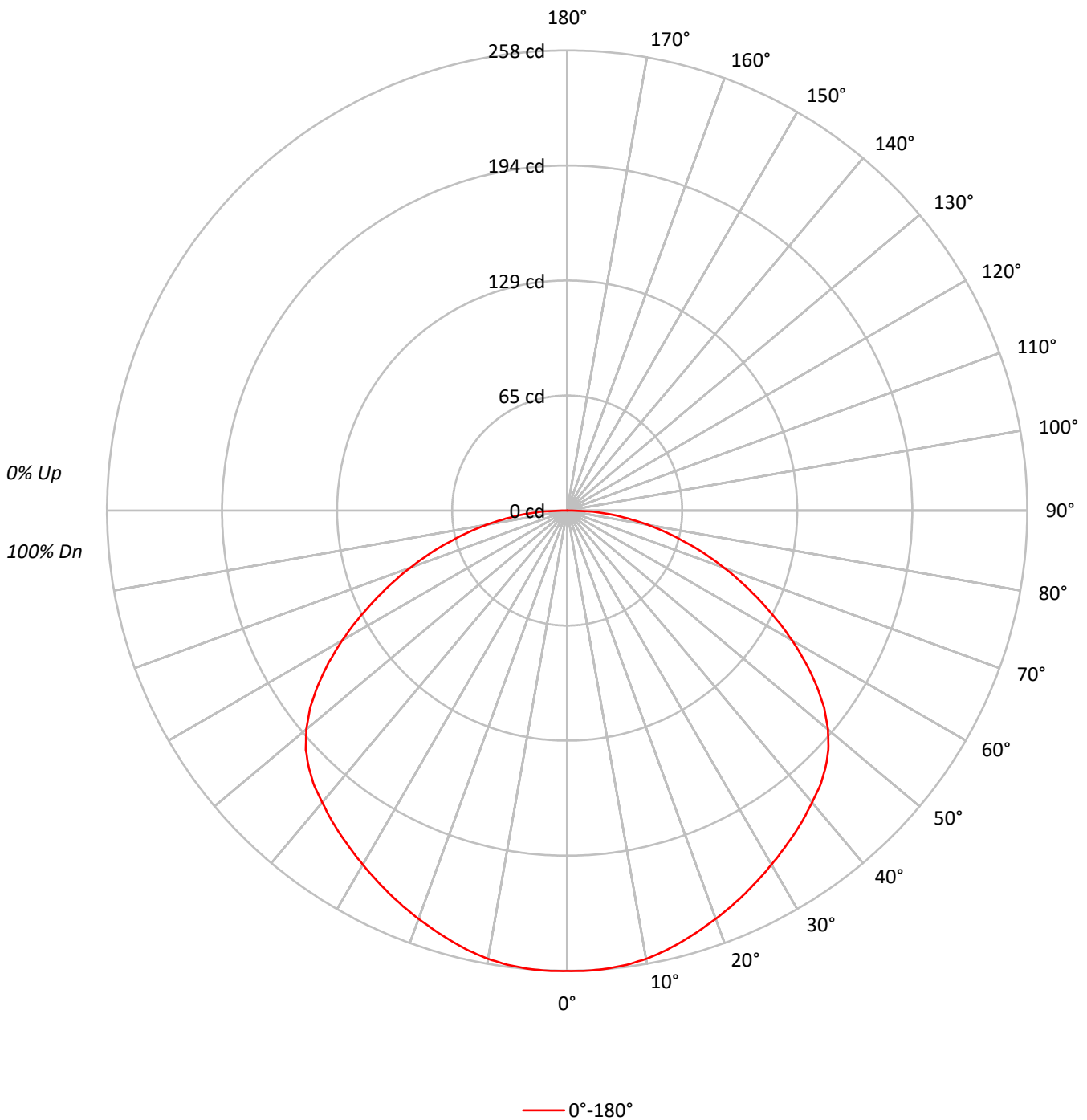
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 870.3 lumens  
Efficiency: N/A  
Efficacy: 55.8 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): 15.6  
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°	4211
5°	4221
10°	4227
15°	4221
20°	4228
25°	4258
30°	4317
35°	4414
40°	4548
45°	4722
50°	4844
55°	4848
60°	4750
65°	4596
70°	4459
75°	4336
80°	4302
85°	4491

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 5384 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.5	2.8
10°-20°	70.6	8.1
20°-30°	109.3	12.6
30°-40°	139.0	16.0
40°-50°	157.6	18.1
50°-60°	151.9	17.5
60°-70°	118.2	13.6
70°-80°	73.1	8.4
80°-90°	26.1	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°	204.4	23.5
0°-40°	343.4	39.5
0°-60°	652.9	75.0
0°-90°	870.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	870.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	258	
5°	258	25
15°	250	71
25°	237	109
35°	222	139
45°	205	158
55°	170	152
65°	119	118
75°	69	73
85°	24	26
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	258.2
2.5°	258.3
5°	257.8
7.5°	256.9
10°	255.2
12.5°	252.9
15°	250.0
17.5°	246.8
20°	243.6
22.5°	240.2
25°	236.6
27.5°	232.9
30°	229.2
32.5°	225.4
35°	221.7
37.5°	217.8
40°	213.6
42.5°	209.7
45°	204.7
47.5°	198.7
50°	190.9
52.5°	181.6
55°	170.5
57.5°	158.5
60°	145.6
62.5°	132.5
65°	119.1
67.5°	106.3
70°	93.5
72.5°	81.3
75°	68.8
77.5°	57.2
80°	45.8
82.5°	34.7
85°	24.0
87.5°	14.4
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	17.87	19.58	18.24	19.90	20.21	17.87	19.58	18.24	19.90	20.21
	3H	19.77	21.32	20.14	21.65	22.00	19.77	21.32	20.14	21.65	22.00
	4H	20.53	22.00	20.93	22.35	22.72	20.53	22.00	20.93	22.35	22.72
	6H	21.17	22.54	21.58	22.90	23.29	21.17	22.54	21.58	22.90	23.29
	8H	21.42	22.72	21.84	23.11	23.51	21.42	22.72	21.84	23.11	23.51
	12H	21.62	22.87	22.05	23.26	23.68	21.62	22.87	22.05	23.26	23.68
4H	2H	18.53	20.00	18.93	20.35	20.72	18.53	20.00	18.93	20.35	20.72
	3H	20.66	21.90	21.07	22.30	22.70	20.66	21.90	21.07	22.30	22.70
	4H	21.57	22.70	22.00	23.11	23.54	21.57	22.70	22.00	23.11	23.54
	6H	22.36	23.35	22.81	23.79	24.24	22.36	23.35	22.81	23.79	24.24
	8H	22.67	23.60	23.13	24.04	24.51	22.67	23.60	23.13	24.04	24.51
	12H	22.95	23.79	23.42	24.26	24.73	22.95	23.79	23.42	24.26	24.73
8H	4H	21.95	22.88	22.40	23.32	23.78	21.95	22.88	22.40	23.32	23.78
	6H	22.89	23.67	23.38	24.16	24.63	22.89	23.67	23.38	24.16	24.63
	8H	23.30	24.01	23.81	24.51	24.99	23.30	24.01	23.81	24.51	24.99
	12H	23.69	24.31	24.19	24.80	25.35	23.69	24.31	24.19	24.80	25.35
12H	4H	22.00	22.84	22.48	23.32	23.78	22.00	22.84	22.48	23.32	23.78
	6H	22.99	23.69	23.49	24.19	24.67	22.99	23.69	23.49	24.19	24.67
	8H	23.47	24.10	23.98	24.58	25.14	23.47	24.10	23.98	24.58	25.14