

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: P865474

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-S-930-15L-L-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

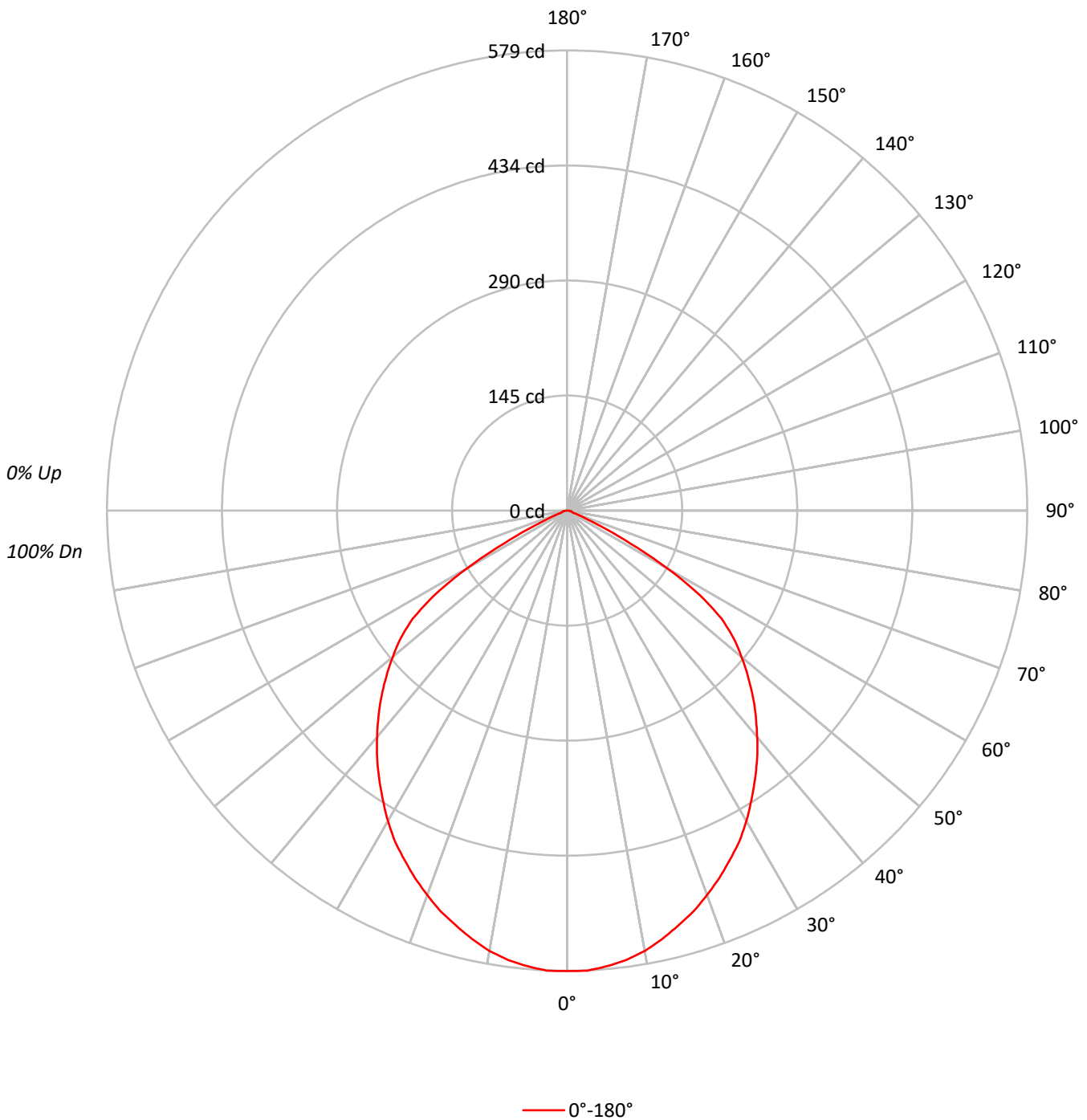
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1213.6 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.6  
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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

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

	0°
0°	9450
5°	9422
10°	9318
15°	9127
20°	8932
25°	8725
30°	8496
35°	8207
40°	7920
45°	7623
50°	7270
55°	6745
60°	4779
65°	1752
70°	434
75°	410
80°	488
85°	487

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7623 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.5	4.5
10°-20°	152.4	12.6
20°-30°	223.3	18.4
30°-40°	257.9	21.2
40°-50°	254.6	21.0
50°-60°	204.4	16.8
60°-70°	57.0	4.7
70°-80°	6.7	0.6
80°-90°	2.8	0.2
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°	430.2	35.5
0°-40°	688.1	56.7
0°-60°	1147.1	94.5
0°-90°	1213.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	579	
5°	576	55
15°	540	152
25°	485	223
35°	412	258
45°	330	255
55°	237	204
65°	45	57
75°	6	7
85°	3	3
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	579.4
2.5°	579.4
5°	575.5
7.5°	570.3
10°	562.6
12.5°	552.2
15°	540.5
17.5°	528.9
20°	514.6
22.5°	500.3
25°	484.8
27.5°	469.2
30°	451.1
32.5°	431.6
35°	412.2
37.5°	392.8
40°	372.0
42.5°	351.3
45°	330.5
47.5°	308.5
50°	286.5
52.5°	264.4
55°	237.2
57.5°	198.3
60°	146.5
62.5°	89.4
65°	45.4
67.5°	20.7
70°	9.1
72.5°	6.5
75°	6.5
77.5°	5.2
80°	5.2
82.5°	3.9
85°	2.6
87.5°	1.3
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	18.50	19.96	18.87	20.28	20.59	18.50	19.96	18.87	20.28	20.59
	3H	18.43	19.72	18.81	20.05	20.41	18.43	19.72	18.81	20.05	20.41
	4H	18.37	19.57	18.77	19.92	20.30	18.37	19.57	18.77	19.92	20.30
	6H	18.31	19.41	18.73	19.78	20.18	18.31	19.41	18.73	19.78	20.18
	8H	18.28	19.33	18.71	19.72	20.12	18.28	19.33	18.71	19.72	20.12
	12H	18.25	19.25	18.68	19.63	20.06	18.25	19.25	18.68	19.63	20.06
4H	2H	18.43	19.62	18.83	19.97	20.35	18.43	19.62	18.83	19.97	20.35
	3H	18.36	19.33	18.77	19.73	20.13	18.36	19.33	18.77	19.73	20.13
	4H	18.30	19.16	18.73	19.58	20.02	18.30	19.16	18.73	19.58	20.02
	6H	18.25	18.99	18.71	19.43	19.90	18.25	18.99	18.71	19.43	19.90
	8H	18.21	18.90	18.67	19.35	19.82	18.21	18.90	18.67	19.35	19.82
	12H	18.17	18.79	18.66	19.27	19.75	18.17	18.79	18.66	19.27	19.75
8H	4H	18.18	18.88	18.65	19.32	19.79	18.18	18.88	18.65	19.32	19.79
	6H	18.11	18.69	18.61	19.18	19.66	18.11	18.69	18.61	19.18	19.66
	8H	18.07	18.59	18.59	19.10	19.59	18.07	18.59	18.59	19.10	19.59
	12H	18.04	18.51	18.56	19.00	19.57	18.04	18.51	18.56	19.00	19.57
12H	4H	18.14	18.76	18.63	19.24	19.71	18.14	18.76	18.63	19.24	19.71
	6H	18.06	18.58	18.58	19.09	19.58	18.06	18.58	18.58	19.09	19.58
	8H	18.03	18.50	18.55	18.99	19.56	18.03	18.50	18.55	18.99	19.56