

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: P865468

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-6)  
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-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

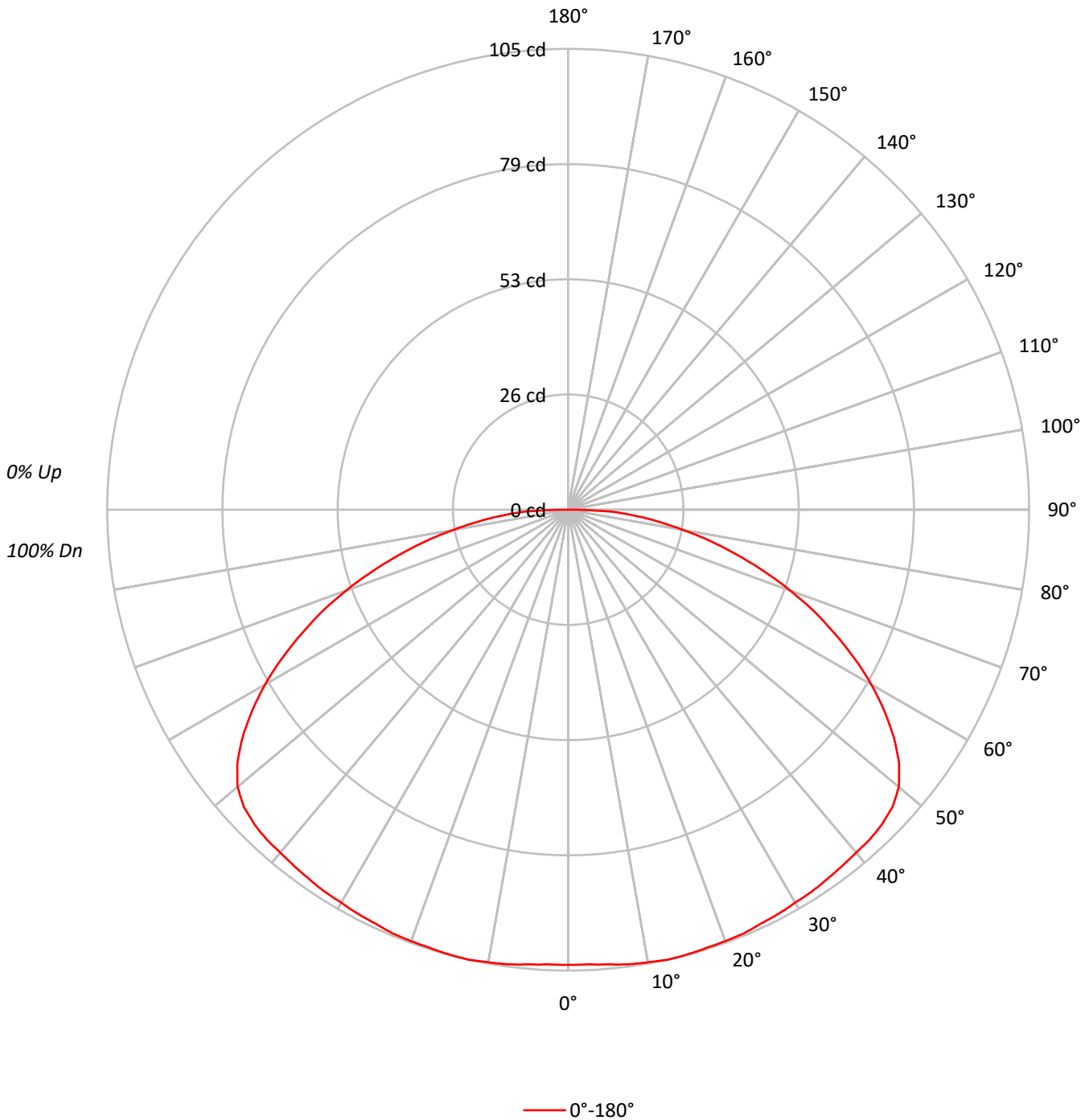
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 435.5 lumens  
Efficiency: N/A  
Efficacy: 27.9 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.69  
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	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70	78	73	68	75	71	67	64
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	60	55	53
4	79	66	56	49	76	64	55	48	62	54	47	59	52	47	57	51	46	44
5	72	58	48	41	70	57	48	41	55	46	40	53	45	40	51	44	39	37
6	66	52	42	35	64	51	42	35	49	41	35	47	40	34	45	39	34	32
7	61	46	37	30	59	46	37	30	44	36	30	43	35	30	41	35	30	27
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24	35	28	23	34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21	33	26	21	32	25	21	19

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

	0°
0°	1691
5°	1703
10°	1734
15°	1771
20°	1816
25°	1872
30°	1947
35°	2047
40°	2172
45°	2334
50°	2494
55°	2576
60°	2603
65°	2590
70°	2566
75°	2514
80°	2498
85°	2770

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 3590 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.0	2.3
10°-20°	29.7	6.8
20°-30°	48.2	11.1
30°-40°	64.5	14.8
40°-50°	78.1	17.9
50°-60°	80.6	18.5
60°-70°	66.4	15.2
70°-80°	42.3	9.7
80°-90°	15.9	3.6
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°	87.8	20.2
0°-40°	152.4	35.0
0°-60°	311.0	71.4
0°-90°	435.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	435.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	104	
5°	104	10
15°	105	30
25°	104	48
35°	103	65
45°	101	78
55°	91	81
65°	67	66
75°	40	42
85°	15	16
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	103.7
2.5°	103.7
5°	104.0
7.5°	104.5
10°	104.7
12.5°	105.0
15°	104.9
17.5°	104.7
20°	104.6
22.5°	104.5
25°	104.0
27.5°	103.8
30°	103.4
32.5°	103.2
35°	102.8
37.5°	102.4
40°	102.0
42.5°	101.8
45°	101.2
47.5°	100.2
50°	98.3
52.5°	95.0
55°	90.6
57.5°	85.4
60°	79.8
62.5°	73.6
65°	67.1
67.5°	60.7
70°	53.8
72.5°	46.8
75°	39.9
77.5°	33.3
80°	26.6
82.5°	20.6
85°	14.8
87.5°	9.6
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	15.92	17.68	16.28	18.00	18.31	15.92	17.68	16.28	18.00	18.31
	3H	18.00	19.61	18.37	19.94	20.29	18.00	19.61	18.37	19.94	20.29
	4H	18.83	20.36	19.23	20.70	21.07	18.83	20.36	19.23	20.70	21.07
	6H	19.52	20.94	19.93	21.31	21.69	19.52	20.94	19.93	21.31	21.69
	8H	19.79	21.16	20.22	21.55	21.94	19.79	21.16	20.22	21.55	21.94
	12H	20.03	21.34	20.46	21.72	22.15	20.03	21.34	20.46	21.72	22.15
4H	2H	16.64	18.17	17.04	18.51	18.89	16.64	18.17	17.04	18.51	18.89
	3H	18.95	20.25	19.36	20.64	21.04	18.95	20.25	19.36	20.64	21.04
	4H	19.93	21.11	20.35	21.52	21.95	19.93	21.11	20.35	21.52	21.95
	6H	20.77	21.81	21.22	22.25	22.70	20.77	21.81	21.22	22.25	22.70
	8H	21.11	22.09	21.57	22.53	22.99	21.11	22.09	21.57	22.53	22.99
	12H	21.42	22.31	21.90	22.78	23.25	21.42	22.31	21.90	22.78	23.25
8H	4H	20.33	21.31	20.79	21.75	22.21	20.33	21.31	20.79	21.75	22.21
	6H	21.34	22.16	21.82	22.64	23.11	21.34	22.16	21.82	22.64	23.11
	8H	21.79	22.53	22.29	23.03	23.51	21.79	22.53	22.29	23.03	23.51
	12H	22.22	22.88	22.72	23.36	23.92	22.22	22.88	22.72	23.36	23.92
12H	4H	20.40	21.29	20.88	21.76	22.23	20.40	21.29	20.88	21.76	22.23
	6H	21.44	22.18	21.94	22.68	23.17	21.44	22.18	21.94	22.68	23.17
	8H	21.97	22.63	22.47	23.12	23.67	21.97	22.63	22.47	23.12	23.67