

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: P866032

Luminaire Tested: PRLX-2001-M-935-15L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-935-15L-L-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

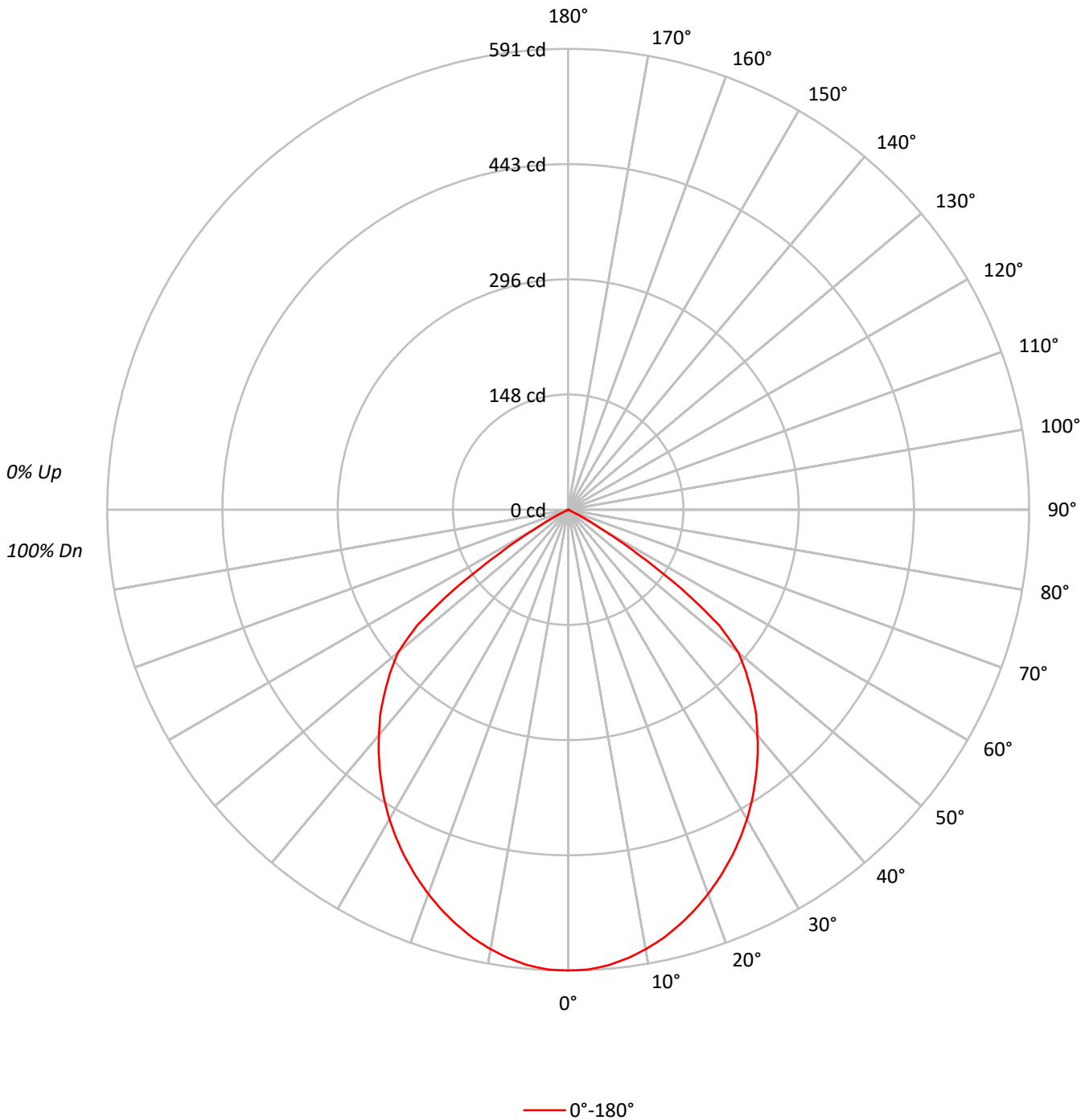
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1124.2 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14  
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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	86	90	86	84	87	84	82	80
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

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

	0°
0°	5015
5°	4996
10°	4931
15°	4842
20°	4735
25°	4619
30°	4491
35°	4343
40°	4180
45°	3996
50°	3756
55°	2650
60°	837
65°	56
70°	40
75°	39
80°	39
85°	39

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3996 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.5	4.9
10°-20°	155.3	13.8
20°-30°	227.1	20.2
30°-40°	262.1	23.3
40°-50°	256.5	22.8
50°-60°	153.9	13.7
60°-70°	12.0	1.1
70°-80°	1.4	0.1
80°-90°	0.5	0.0
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°	437.9	38.9
0°-40°	699.9	62.3
0°-60°	1110.3	98.8
0°-90°	1124.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1124.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	591	
5°	586	56
15°	551	155
25°	493	227
35°	419	262
45°	333	256
55°	179	154
65°	3	12
75°	1	1
85°	0	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	591.0
2.5°	590.2
5°	586.5
7.5°	580.4
10°	572.3
12.5°	562.9
15°	551.1
17.5°	538.5
20°	524.3
22.5°	509.2
25°	493.3
27.5°	476.2
30°	458.3
32.5°	439.2
35°	419.2
37.5°	398.9
40°	377.3
42.5°	356.6
45°	333.0
47.5°	309.3
50°	284.5
52.5°	244.2
55°	179.1
57.5°	105.4
60°	49.3
62.5°	19.5
65°	2.8
67.5°	1.6
70°	1.6
72.5°	1.6
75°	1.2
77.5°	1.2
80°	0.8
82.5°	0.8
85°	0.4
87.5°	0.4
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	12.07	13.44	12.43	13.76	14.07	12.07	13.44	12.43	13.76	14.07
	3H	11.95	13.15	12.32	13.48	13.84	11.95	13.15	12.32	13.48	13.84
	4H	11.88	13.00	12.28	13.35	13.73	11.88	13.00	12.28	13.35	13.73
	6H	11.80	12.83	12.22	13.20	13.59	11.80	12.83	12.22	13.20	13.59
	8H	11.76	12.73	12.19	13.12	13.53	11.76	12.73	12.19	13.12	13.53
	12H	11.72	12.65	12.15	13.03	13.46	11.72	12.65	12.15	13.03	13.46
4H	2H	11.88	13.00	12.28	13.35	13.73	11.88	13.00	12.28	13.35	13.73
	3H	11.76	12.65	12.17	13.06	13.46	11.76	12.65	12.17	13.06	13.46
	4H	11.67	12.47	12.11	12.89	13.33	11.67	12.47	12.11	12.89	13.33
	6H	11.60	12.28	12.06	12.73	13.19	11.60	12.28	12.06	12.73	13.19
	8H	11.54	12.18	12.01	12.63	13.10	11.54	12.18	12.01	12.63	13.10
	12H	11.49	12.06	11.98	12.54	13.02	11.49	12.06	11.98	12.54	13.02
8H	4H	11.54	12.18	12.01	12.62	13.09	11.54	12.18	12.01	12.62	13.09
	6H	11.43	11.96	11.93	12.46	12.94	11.43	11.96	11.93	12.46	12.94
	8H	11.36	11.84	11.89	12.36	12.85	11.36	11.84	11.89	12.36	12.85
	12H	11.31	11.75	11.83	12.24	12.81	11.31	11.75	11.83	12.24	12.81
12H	4H	11.49	12.05	11.97	12.54	13.01	11.49	12.05	11.97	12.54	13.01
	6H	11.36	11.84	11.88	12.36	12.85	11.36	11.84	11.88	12.36	12.85
	8H	11.31	11.74	11.83	12.24	12.81	11.31	11.74	11.83	12.24	12.81