

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: P866024

Luminaire Tested: PRLX-2001-M-935-07L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866024  
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-935-07L-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 1  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

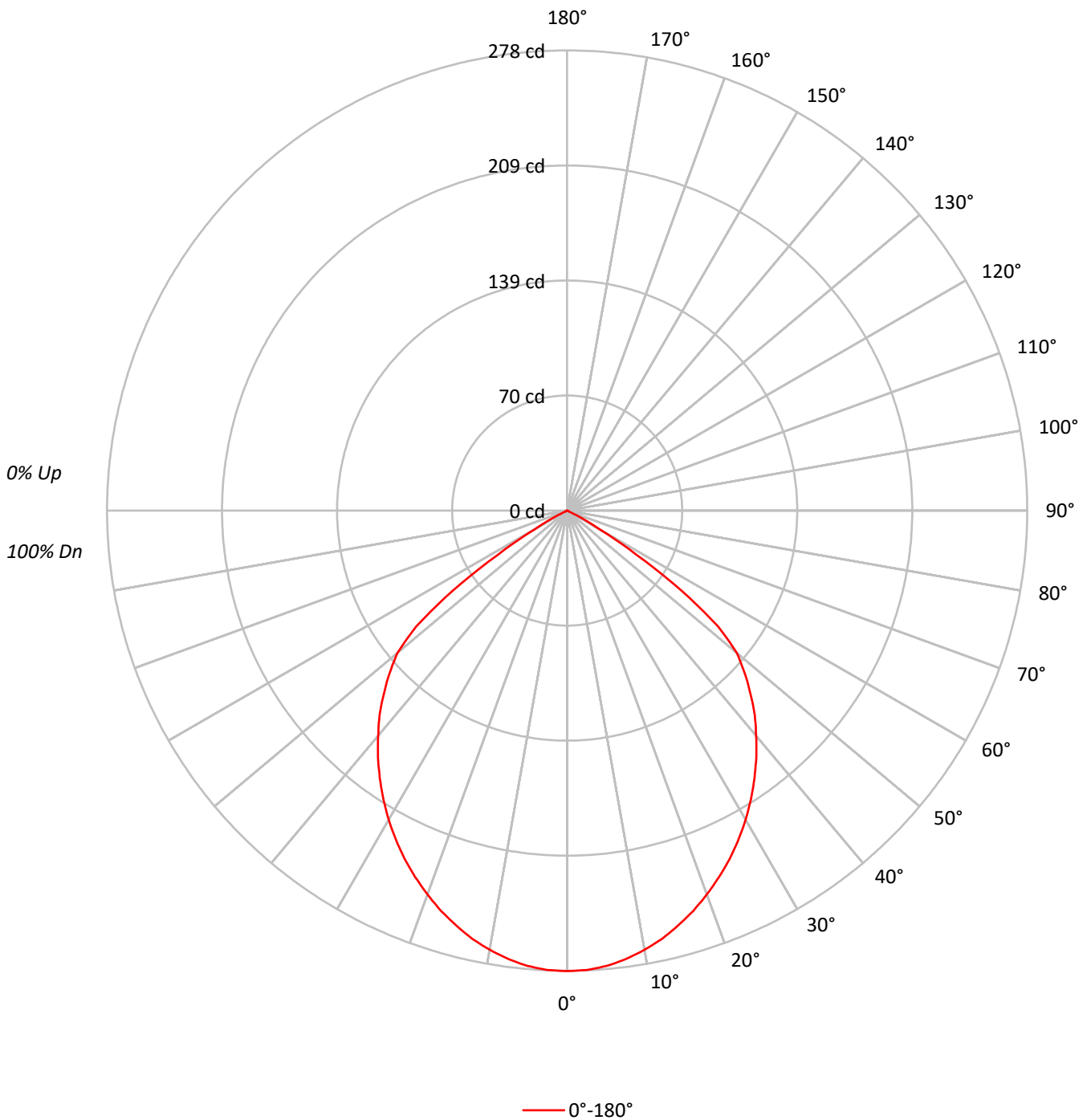
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 529.2 lumens  
Efficiency: N/A  
Efficacy: 64.5 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): 8.2  
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	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	88	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	57	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°	2361
5°	2352
10°	2321
15°	2279
20°	2229
25°	2174
30°	2114
35°	2044
40°	1967
45°	1881
50°	1768
55°	1247
60°	394
65°	26
70°	20
75°	20
80°	20
85°	19

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1881 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.1	4.9
10°-20°	73.1	13.8
20°-30°	106.9	20.2
30°-40°	123.3	23.3
40°-50°	120.7	22.8
50°-60°	72.4	13.7
60°-70°	5.7	1.1
70°-80°	0.7	0.1
80°-90°	0.3	0.1
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°	206.1	38.9
0°-40°	329.4	62.3
0°-60°	522.6	98.8
0°-90°	529.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	529.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	278	
5°	276	26
15°	259	73
25°	232	107
35°	197	123
45°	157	121
55°	84	72
65°	1	6
75°	1	1
85°	0	0
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	278.2
2.5°	277.8
5°	276.1
7.5°	273.2
10°	269.4
12.5°	265.0
15°	259.4
17.5°	253.5
20°	246.8
22.5°	239.7
25°	232.2
27.5°	224.1
30°	215.7
32.5°	206.7
35°	197.3
37.5°	187.7
40°	177.6
42.5°	167.8
45°	156.7
47.5°	145.6
50°	133.9
52.5°	114.9
55°	84.3
57.5°	49.6
60°	23.2
62.5°	9.2
65°	1.3
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.6
77.5°	0.6
80°	0.4
82.5°	0.4
85°	0.2
87.5°	0.2
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	9.45	10.82	9.81	11.14	11.45	9.45	10.82	9.81	11.14	11.45
	3H	9.33	10.53	9.71	10.86	11.22	9.33	10.53	9.71	10.86	11.22
	4H	9.26	10.38	9.66	10.73	11.11	9.26	10.38	9.66	10.73	11.11
	6H	9.18	10.21	9.60	10.58	10.97	9.18	10.21	9.60	10.58	10.97
	8H	9.14	10.11	9.57	10.50	10.91	9.14	10.11	9.57	10.50	10.91
	12H	9.10	10.03	9.54	10.41	10.84	9.10	10.03	9.54	10.41	10.84
4H	2H	9.26	10.38	9.66	10.73	11.11	9.26	10.38	9.66	10.73	11.11
	3H	9.14	10.03	9.55	10.44	10.84	9.14	10.03	9.55	10.44	10.84
	4H	9.05	9.85	9.49	10.27	10.71	9.05	9.85	9.49	10.27	10.71
	6H	8.98	9.66	9.44	10.11	10.57	8.98	9.66	9.44	10.11	10.57
	8H	8.92	9.56	9.39	10.01	10.48	8.92	9.56	9.39	10.01	10.48
	12H	8.87	9.44	9.36	9.92	10.40	8.87	9.44	9.36	9.92	10.40
8H	4H	8.92	9.56	9.39	10.00	10.47	8.92	9.56	9.39	10.00	10.47
	6H	8.81	9.34	9.31	9.84	10.32	8.81	9.34	9.31	9.84	10.32
	8H	8.75	9.23	9.27	9.74	10.23	8.75	9.23	9.27	9.74	10.23
	12H	8.69	9.13	9.21	9.62	10.19	8.69	9.13	9.21	9.62	10.19
12H	4H	8.87	9.44	9.35	9.92	10.39	8.87	9.44	9.35	9.92	10.39
	6H	8.74	9.22	9.27	9.74	10.23	8.74	9.22	9.27	9.74	10.23
	8H	8.69	9.13	9.21	9.62	10.19	8.69	9.13	9.21	9.62	10.19