

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: P866080

Luminaire Tested: PRLX-2001-M-935-75L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866080  
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-935-75L-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 8  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

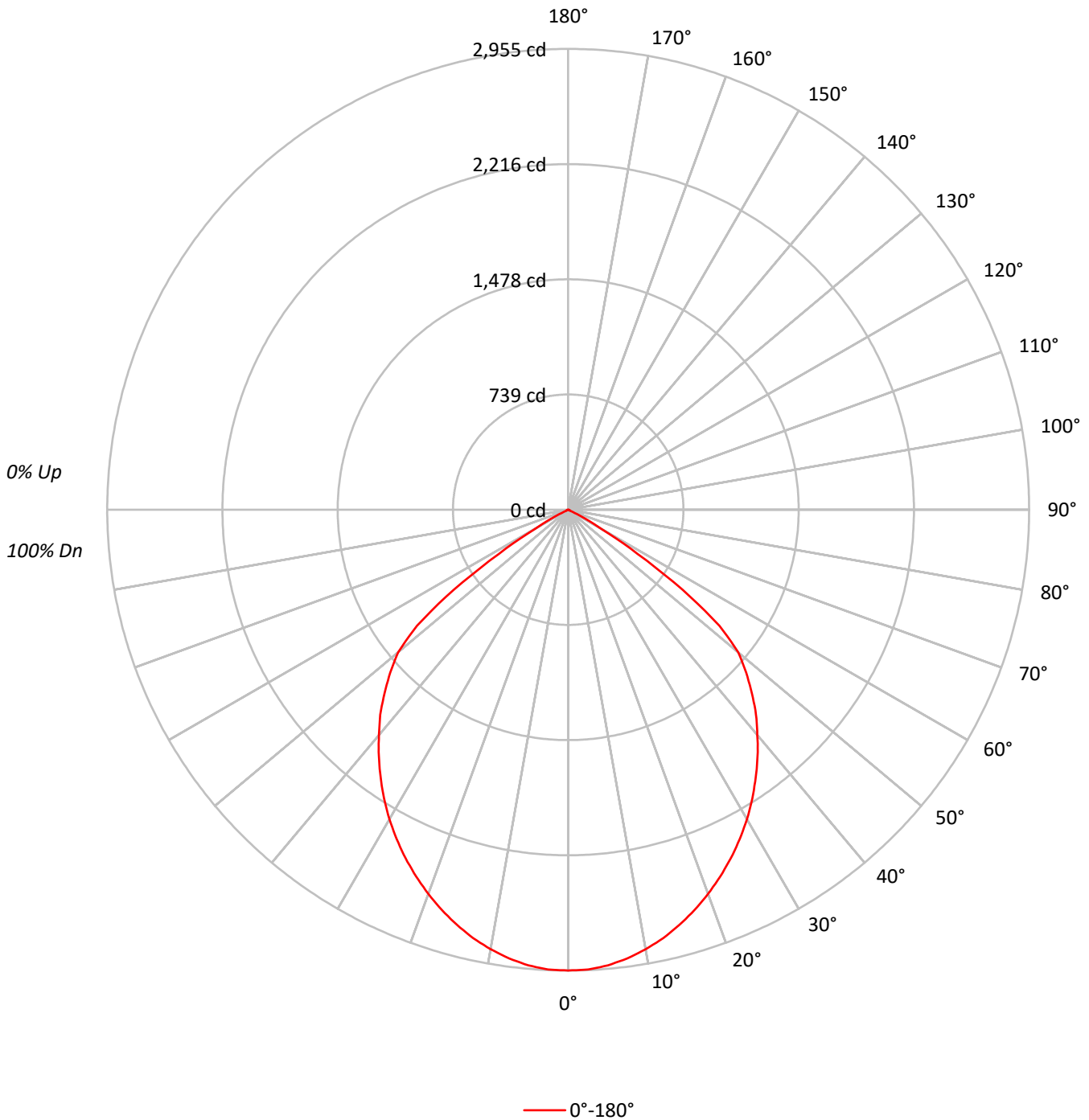
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5621.2 lumens  
Efficiency: N/A  
Efficacy: 80.6 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): 69.7  
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	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°	25077
5°	24982
10°	24656
15°	24209
20°	23672
25°	23095
30°	22455
35°	21716
40°	20899
45°	19979
50°	18781
55°	13249
60°	4180
65°	285
70°	201
75°	200
80°	200
85°	195

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19979 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.6	4.9
10°-20°	776.3	13.8
20°-30°	1135.4	20.2
30°-40°	1310.5	23.3
40°-50°	1282.4	22.8
50°-60°	769.3	13.7
60°-70°	60.0	1.1
70°-80°	7.0	0.1
80°-90°	2.8	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°	2189.3	38.9
0°-40°	3499.8	62.3
0°-60°	5551.5	98.8
0°-90°	5621.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5621.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2955	
5°	2933	278
15°	2756	776
25°	2467	1135
35°	2096	1310
45°	1665	1282
55°	896	769
65°	14	60
75°	6	7
85°	2	3
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2955.1
2.5°	2951.0
5°	2932.7
7.5°	2902.1
10°	2861.4
12.5°	2814.6
15°	2755.6
17.5°	2692.5
20°	2621.3
22.5°	2546.0
25°	2466.6
27.5°	2381.1
30°	2291.6
32.5°	2195.9
35°	2096.2
37.5°	1994.5
40°	1886.6
42.5°	1782.8
45°	1664.8
47.5°	1546.7
50°	1422.6
52.5°	1221.1
55°	895.5
57.5°	527.1
60°	246.3
62.5°	97.7
65°	14.2
67.5°	8.1
70°	8.1
72.5°	8.1
75°	6.1
77.5°	6.1
80°	4.1
82.5°	4.1
85°	2.0
87.5°	2.0
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	17.66	19.03	18.02	19.35	19.66	17.66	19.03	18.02	19.35	19.66
	3H	17.54	18.74	17.92	19.07	19.44	17.54	18.74	17.92	19.07	19.44
	4H	17.47	18.59	17.87	18.94	19.32	17.47	18.59	17.87	18.94	19.32
	6H	17.40	18.42	17.81	18.79	19.18	17.40	18.42	17.81	18.79	19.18
	8H	17.36	18.32	17.79	18.71	19.12	17.36	18.32	17.79	18.71	19.12
	12H	17.32	18.24	17.75	18.62	19.05	17.32	18.24	17.75	18.62	19.05
4H	2H	17.47	18.59	17.87	18.94	19.32	17.47	18.59	17.87	18.94	19.32
	3H	17.35	18.25	17.76	18.65	19.05	17.35	18.25	17.76	18.65	19.05
	4H	17.27	18.06	17.70	18.48	18.92	17.27	18.06	17.70	18.48	18.92
	6H	17.19	17.87	17.65	18.32	18.79	17.19	17.87	17.65	18.32	18.79
	8H	17.13	17.77	17.60	18.22	18.69	17.13	17.77	17.60	18.22	18.69
	12H	17.09	17.65	17.57	18.13	18.61	17.09	17.65	17.57	18.13	18.61
8H	4H	17.13	17.77	17.60	18.22	18.69	17.13	17.77	17.60	18.22	18.69
	6H	17.02	17.55	17.53	18.05	18.53	17.02	17.55	17.53	18.05	18.53
	8H	16.96	17.44	17.48	17.95	18.44	16.96	17.44	17.48	17.95	18.44
	12H	16.91	17.34	17.42	17.83	18.40	16.91	17.34	17.42	17.83	18.40
12H	4H	17.08	17.65	17.57	18.13	18.60	17.08	17.65	17.57	18.13	18.60
	6H	16.96	17.44	17.48	17.95	18.44	16.96	17.44	17.48	17.95	18.44
	8H	16.91	17.34	17.42	17.83	18.40	16.91	17.34	17.42	17.83	18.40