

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: P866339

Luminaire Tested: PRLX-2002-M-935-75L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866339  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-935-75L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

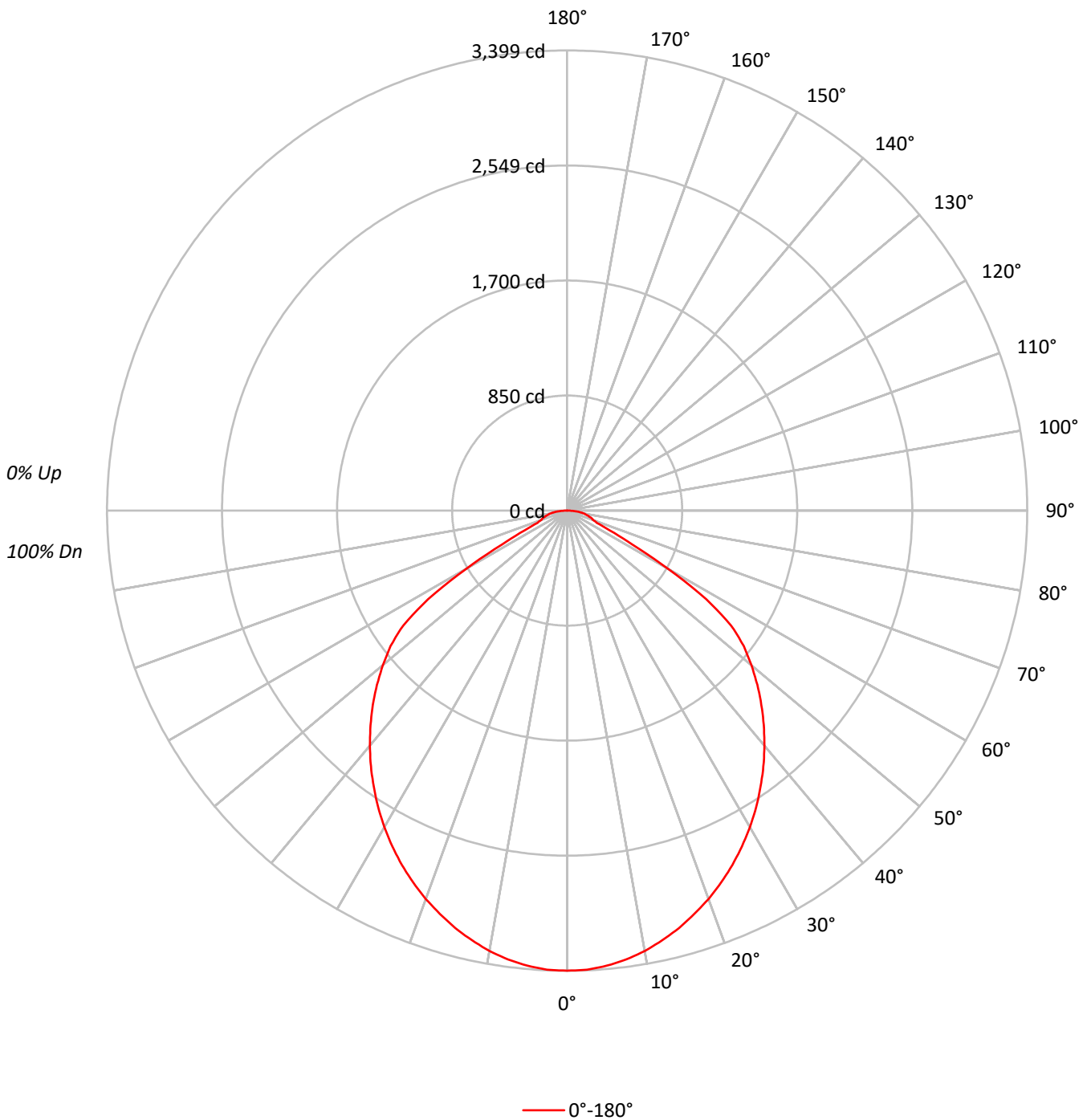
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7590.9 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3  
Luminous Opening: Circular (Dia: 1.31' 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: 0.333 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	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

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

	0°
0°	27039
5°	26948
10°	26684
15°	26301
20°	25846
25°	25351
30°	24810
35°	24193
40°	23546
45°	22830
50°	21990
55°	20494
60°	13762
65°	6513
70°	4782
75°	5130
80°	5686
85°	6317

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22830 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.8	4.2
10°-20°	899.6	11.9
20°-30°	1329.9	17.5
30°-40°	1558.1	20.5
40°-50°	1564.1	20.6
50°-60°	1262.3	16.6
60°-70°	408.0	5.4
70°-80°	176.2	2.3
80°-90°	72.8	1.0
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°	2549.4	33.6
0°-40°	4107.5	54.1
0°-60°	6933.8	91.3
0°-90°	7590.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7590.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3399	
5°	3374	320
15°	3193	900
25°	2888	1330
35°	2491	1558
45°	2029	1564
55°	1478	1262
65°	346	408
75°	167	176
85°	69	73
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3398.7
2.5°	3394.7
5°	3374.3
7.5°	3343.8
10°	3303.1
12.5°	3250.2
15°	3193.2
17.5°	3124.0
20°	3052.8
22.5°	2973.4
25°	2887.9
27.5°	2796.3
30°	2700.7
32.5°	2598.9
35°	2491.0
37.5°	2381.1
40°	2267.2
42.5°	2149.1
45°	2029.1
47.5°	1904.9
50°	1776.7
52.5°	1644.4
55°	1477.5
57.5°	1219.1
60°	864.9
62.5°	541.4
65°	346.0
67.5°	238.1
70°	205.6
72.5°	189.3
75°	166.9
77.5°	146.5
80°	124.1
82.5°	99.7
85°	69.2
87.5°	36.6
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	22.19	23.69	22.56	24.00	24.32	22.19	23.69	22.56	24.00	24.32
	3H	22.30	23.63	22.68	23.96	24.32	22.30	23.63	22.68	23.96	24.32
	4H	22.39	23.63	22.79	23.98	24.36	22.39	23.63	22.79	23.98	24.36
	6H	22.50	23.65	22.91	24.01	24.41	22.50	23.65	22.91	24.01	24.41
	8H	22.56	23.64	22.98	24.03	24.44	22.56	23.64	22.98	24.03	24.44
	12H	22.61	23.65	23.04	24.03	24.46	22.61	23.65	23.04	24.03	24.46
4H	2H	22.16	23.40	22.56	23.75	24.13	22.16	23.40	22.56	23.75	24.13
	3H	22.36	23.38	22.77	23.78	24.18	22.36	23.38	22.77	23.78	24.18
	4H	22.52	23.43	22.95	23.84	24.28	22.52	23.43	22.95	23.84	24.28
	6H	22.74	23.53	23.20	23.97	24.43	22.74	23.53	23.20	23.97	24.43
	8H	22.84	23.58	23.31	24.02	24.49	22.84	23.58	23.31	24.02	24.49
	12H	22.94	23.60	23.42	24.08	24.55	22.94	23.60	23.42	24.08	24.55
8H	4H	22.53	23.27	23.00	23.72	24.18	22.53	23.27	23.00	23.72	24.18
	6H	22.83	23.44	23.33	23.94	24.41	22.83	23.44	23.33	23.94	24.41
	8H	23.00	23.55	23.51	24.06	24.55	23.00	23.55	23.51	24.06	24.55
	12H	23.17	23.67	23.68	24.16	24.73	23.17	23.67	23.68	24.16	24.73
12H	4H	22.52	23.18	23.01	23.66	24.13	22.52	23.18	23.01	23.66	24.13
	6H	22.83	23.39	23.35	23.90	24.39	22.83	23.39	23.35	23.90	24.39
	8H	23.05	23.55	23.56	24.04	24.61	23.05	23.55	23.56	24.04	24.61