

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: P866807

Luminaire Tested: PRLX-2001-L-935-133L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-76)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-935-133L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

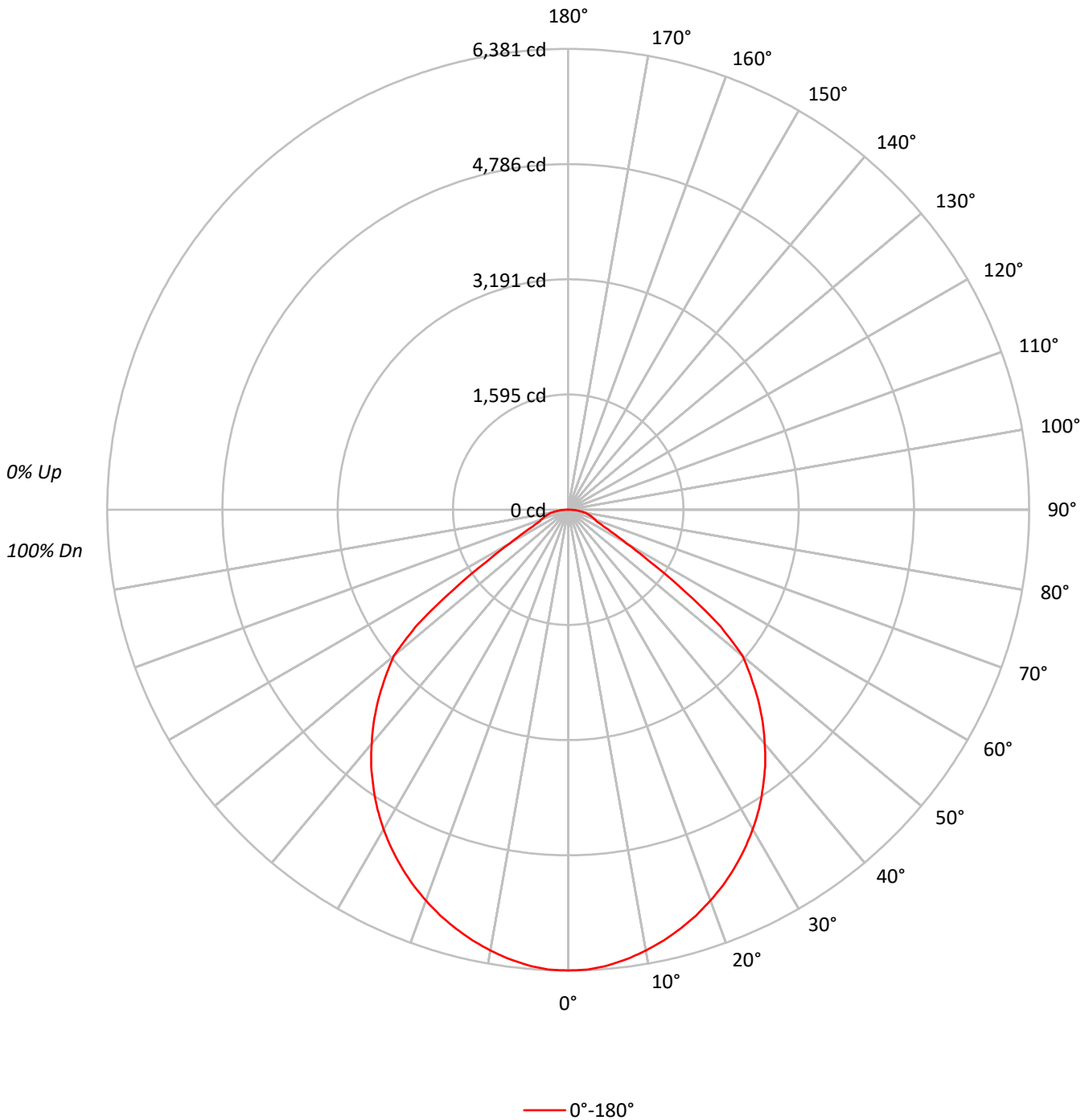
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13417.0 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 111.8  
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	105	101	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	32	31

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

	0°
0°	34882
5°	34760
10°	34401
15°	33981
20°	33502
25°	32946
30°	32252
35°	31363
40°	30212
45°	28714
50°	26794
55°	18818
60°	10188
65°	6936
70°	6304
75°	6694
80°	7203
85°	7696

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 28714 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.3	4.5
10°-20°	1693.1	12.6
20°-30°	2514.8	18.7
30°-40°	2936.3	21.9
40°-50°	2858.2	21.3
50°-60°	1778.4	13.3
60°-70°	573.3	4.3
70°-80°	332.6	2.5
80°-90°	130.0	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°	4808.2	35.8
0°-40°	7744.5	57.7
0°-60°	12381.1	92.3
0°-90°	13417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13417.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6381	
5°	6334	600
15°	6004	1693
25°	5462	2515
35°	4699	2936
45°	3714	2858
55°	1974	1778
65°	536	573
75°	317	333
85°	123	130
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6380.6
2.5°	6373.5
5°	6334.1
7.5°	6274.6
10°	6197.1
12.5°	6108.9
15°	6004.1
17.5°	5889.7
20°	5758.6
22.5°	5620.4
25°	5461.9
27.5°	5292.7
30°	5109.2
32.5°	4915.0
35°	4699.4
37.5°	4478.9
40°	4233.5
42.5°	3984.5
45°	3714.0
47.5°	3431.6
50°	3150.4
52.5°	2659.5
55°	1974.4
57.5°	1345.2
60°	931.8
62.5°	695.8
65°	536.2
67.5°	428.9
70°	394.4
72.5°	356.3
75°	316.9
77.5°	275.2
80°	228.8
82.5°	178.7
85°	122.7
87.5°	62.0
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	19.64	21.10	20.01	21.41	21.72	19.64	21.10	20.01	21.41	21.72
	3H	20.12	21.41	20.50	21.74	22.10	20.12	21.41	20.50	21.74	22.10
	4H	20.45	21.65	20.85	22.00	22.38	20.45	21.65	20.85	22.00	22.38
	6H	20.80	21.90	21.21	22.27	22.66	20.80	21.90	21.21	22.27	22.66
	8H	20.95	22.00	21.38	22.39	22.79	20.95	22.00	21.38	22.39	22.79
	12H	21.08	22.08	21.51	22.46	22.89	21.08	22.08	21.51	22.46	22.89
4H	2H	19.73	20.93	20.13	21.28	21.66	19.73	20.93	20.13	21.28	21.66
	3H	20.42	21.40	20.83	21.80	22.21	20.42	21.40	20.83	21.80	22.21
	4H	20.89	21.77	21.32	22.19	22.63	20.89	21.77	21.32	22.19	22.63
	6H	21.42	22.18	21.88	22.62	23.09	21.42	22.18	21.88	22.62	23.09
	8H	21.65	22.36	22.11	22.80	23.27	21.65	22.36	22.11	22.80	23.27
	12H	21.85	22.48	22.33	22.96	23.43	21.85	22.48	22.33	22.96	23.43
8H	4H	21.06	21.77	21.52	22.21	22.68	21.06	21.77	21.52	22.21	22.68
	6H	21.73	22.32	22.22	22.81	23.29	21.73	22.32	22.22	22.81	23.29
	8H	22.05	22.59	22.57	23.10	23.59	22.05	22.59	22.57	23.10	23.59
	12H	22.35	22.83	22.87	23.33	23.89	22.35	22.83	22.87	23.33	23.89
12H	4H	21.07	21.71	21.56	22.19	22.66	21.07	21.71	21.56	22.19	22.66
	6H	21.77	22.31	22.29	22.82	23.31	21.77	22.31	22.29	22.82	23.31
	8H	22.17	22.65	22.68	23.14	23.71	22.17	22.65	22.68	23.14	23.71