

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: P866910

Luminaire Tested: PRLX-2001-L-940-83L-L-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866910  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-940-83L-L-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

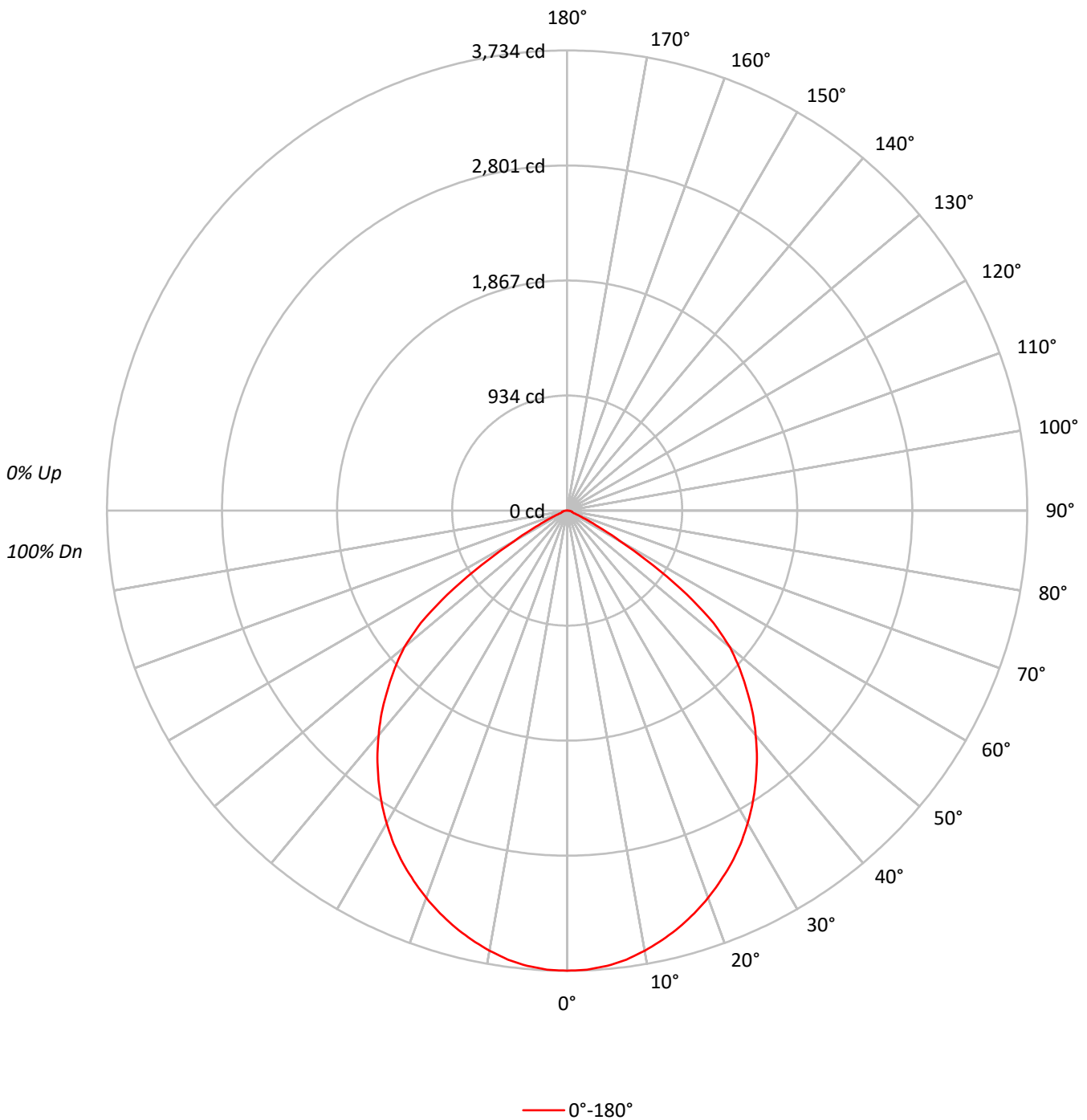
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7333.0 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 64.5  
Input Voltage (V): 120  
Input Current (Ain): 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	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33

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

	0°
0°	20411
5°	20353
10°	20131
15°	19827
20°	19456
25°	19033
30°	18496
35°	17816
40°	16987
45°	15953
50°	14657
55°	11318
60°	5471
65°	2065
70°	814
75°	896
80°	1020
85°	1160

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15953 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.4	4.8
10°-20°	987.0	13.5
20°-30°	1451.6	19.8
30°-40°	1667.2	22.7
40°-50°	1589.3	21.7
50°-60°	1026.0	14.0
60°-70°	197.1	2.7
70°-80°	44.4	0.6
80°-90°	19.1	0.3
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°	2790.0	38.0
0°-40°	4457.2	60.8
0°-60°	7072.4	96.4
0°-90°	7333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7333.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3734	
5°	3709	351
15°	3503	987
25°	3155	1452
35°	2670	1667
45°	2063	1589
55°	1188	1026
65°	160	197
75°	42	44
85°	18	19
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3733.6
2.5°	3729.0
5°	3708.9
7.5°	3675.0
10°	3626.4
12.5°	3568.6
15°	3503.1
17.5°	3427.5
20°	3344.2
22.5°	3252.4
25°	3155.3
27.5°	3048.1
30°	2930.1
32.5°	2803.7
35°	2669.5
37.5°	2529.9
40°	2380.3
42.5°	2230.0
45°	2063.4
47.5°	1899.2
50°	1723.4
52.5°	1495.9
55°	1187.5
57.5°	827.4
60°	500.4
62.5°	286.8
65°	159.6
67.5°	83.3
70°	50.9
72.5°	46.3
75°	42.4
77.5°	37.8
80°	32.4
82.5°	26.2
85°	18.5
87.5°	9.3
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	18.38	19.78	18.75	20.10	20.41	18.38	19.78	18.75	20.10	20.41
	3H	18.31	19.54	18.69	19.87	20.23	18.31	19.54	18.69	19.87	20.23
	4H	18.26	19.41	18.66	19.76	20.14	18.26	19.41	18.66	19.76	20.14
	6H	18.22	19.27	18.63	19.64	20.03	18.22	19.27	18.63	19.64	20.03
	8H	18.19	19.19	18.62	19.58	19.98	18.19	19.19	18.62	19.58	19.98
	12H	18.17	19.12	18.60	19.50	19.93	18.17	19.12	18.60	19.50	19.93
4H	2H	18.26	19.41	18.67	19.76	20.14	18.26	19.41	18.67	19.76	20.14
	3H	18.20	19.13	18.62	19.53	19.93	18.20	19.13	18.62	19.53	19.93
	4H	18.16	18.98	18.59	19.40	19.84	18.16	18.98	18.59	19.40	19.84
	6H	18.13	18.84	18.59	19.29	19.75	18.13	18.84	18.59	19.29	19.75
	8H	18.11	18.77	18.57	19.21	19.68	18.11	18.77	18.57	19.21	19.68
	12H	18.09	18.68	18.57	19.16	19.63	18.09	18.68	18.57	19.16	19.63
8H	4H	18.05	18.71	18.52	19.16	19.63	18.05	18.71	18.52	19.16	19.63
	6H	18.02	18.56	18.52	19.06	19.54	18.02	18.56	18.52	19.06	19.54
	8H	18.00	18.49	18.52	19.01	19.50	18.00	18.49	18.52	19.01	19.50
	12H	18.00	18.44	18.51	18.93	19.50	18.00	18.44	18.51	18.93	19.50
12H	4H	18.01	18.59	18.49	19.08	19.55	18.01	18.59	18.49	19.08	19.55
	6H	17.96	18.46	18.48	18.97	19.46	17.96	18.46	18.48	18.97	19.46
	8H	17.97	18.41	18.48	18.91	19.48	17.97	18.41	18.48	18.91	19.48