

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: P866898

Luminaire Tested: PRLX-2001-L-940-48L-G-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866898  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-940-48L-G-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

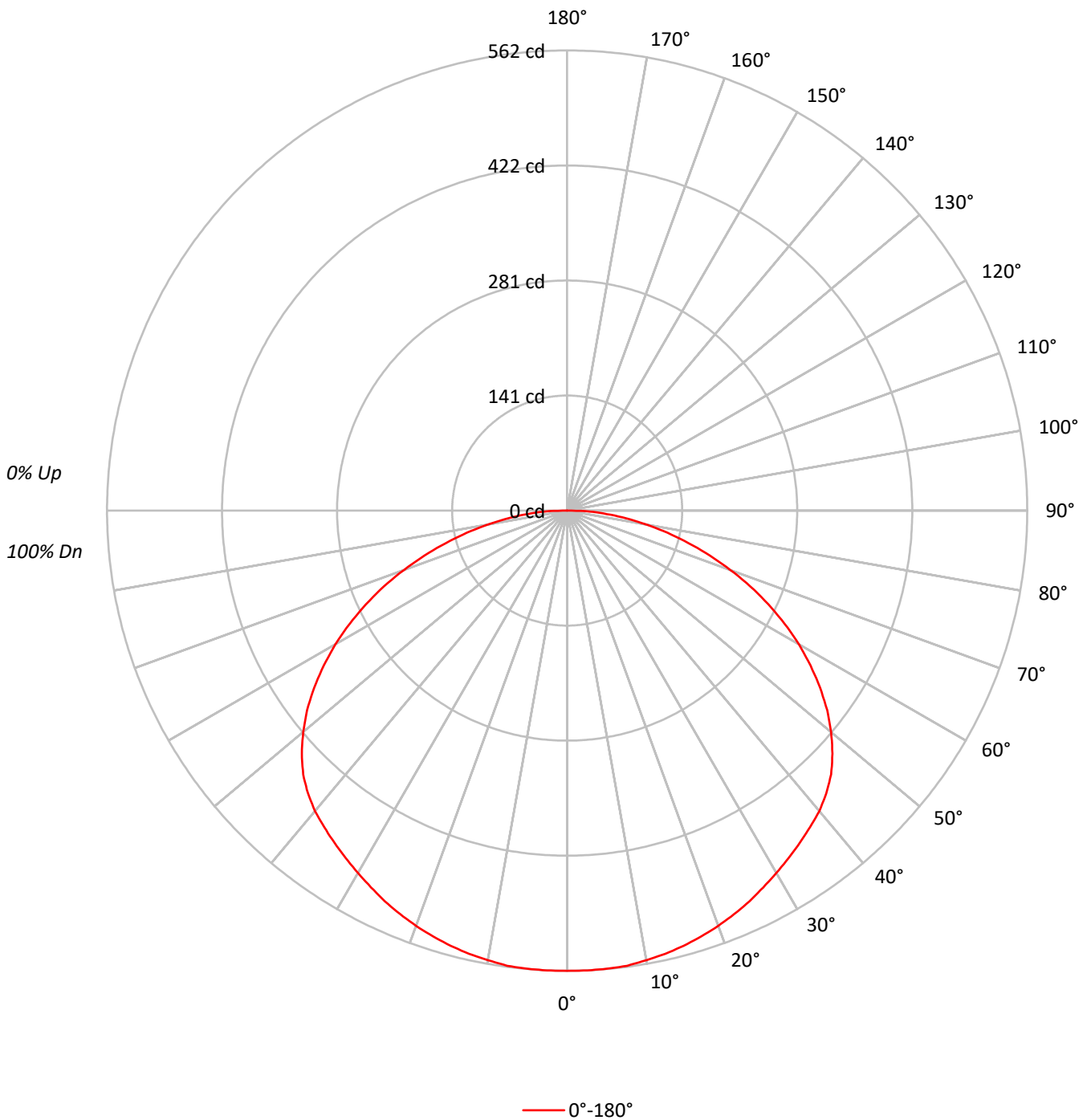
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1934.4 lumens  
Efficiency: N/A  
Efficacy: 51.6 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.5  
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	108	103	98	94	105	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

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

	0°
0°	3073
5°	3082
10°	3095
15°	3114
20°	3140
25°	3176
30°	3226
35°	3307
40°	3419
45°	3525
50°	3579
55°	3593
60°	3574
65°	3508
70°	3389
75°	3244
80°	3085
85°	3061

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 3595 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	2.8
10°-20°	155.5	8.0
20°-30°	243.1	12.6
30°-40°	310.7	16.1
40°-50°	350.6	18.1
50°-60°	336.4	17.4
60°-70°	267.9	13.9
70°-80°	162.7	8.4
80°-90°	53.9	2.8
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°	452.1	23.4
0°-40°	762.9	39.4
0°-60°	1449.9	75.0
0°-90°	1934.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1934.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	562	
5°	562	53
15°	550	156
25°	526	243
35°	496	311
45°	456	351
55°	377	336
65°	271	268
75°	154	163
85°	49	54
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	562.1
2.5°	562.1
5°	561.6
7.5°	560.7
10°	557.5
12.5°	554.3
15°	550.2
17.5°	545.2
20°	539.7
22.5°	533.4
25°	526.5
27.5°	518.8
30°	511.0
32.5°	503.3
35°	495.5
37.5°	487.3
40°	479.1
42.5°	468.6
45°	455.9
47.5°	439.5
50°	420.8
52.5°	400.3
55°	377.0
57.5°	352.4
60°	326.9
62.5°	299.5
65°	271.2
67.5°	242.5
70°	212.0
72.5°	182.8
75°	153.6
77.5°	125.4
80°	98.0
82.5°	72.5
85°	48.8
87.5°	27.8
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	16.86	18.57	17.22	18.88	19.20	16.86	18.57	17.22	18.88	19.20
	3H	18.82	20.37	19.20	20.70	21.06	18.82	20.37	19.20	20.70	21.06
	4H	19.58	21.05	19.98	21.39	21.77	19.58	21.05	19.98	21.39	21.77
	6H	20.18	21.54	20.59	21.91	22.30	20.18	21.54	20.59	21.91	22.30
	8H	20.40	21.70	20.82	22.09	22.49	20.40	21.70	20.82	22.09	22.49
	12H	20.57	21.82	21.00	22.20	22.63	20.57	21.82	21.00	22.20	22.63
4H	2H	17.55	19.02	17.95	19.36	19.74	17.55	19.02	17.95	19.36	19.74
	3H	19.73	20.97	20.14	21.37	21.77	19.73	20.97	20.14	21.37	21.77
	4H	20.63	21.75	21.06	22.17	22.60	20.63	21.75	21.06	22.17	22.60
	6H	21.37	22.36	21.82	22.80	23.25	21.37	22.36	21.82	22.80	23.25
	8H	21.64	22.57	22.10	23.01	23.48	21.64	22.57	22.10	23.01	23.48
	12H	21.88	22.71	22.35	23.19	23.65	21.88	22.71	22.35	23.19	23.65
8H	4H	20.99	21.92	21.45	22.36	22.82	20.99	21.92	21.45	22.36	22.82
	6H	21.87	22.65	22.37	23.14	23.61	21.87	22.65	22.37	23.14	23.61
	8H	22.24	22.94	22.75	23.44	23.93	22.24	22.94	22.75	23.44	23.93
	12H	22.57	23.19	23.08	23.68	24.24	22.57	23.19	23.08	23.68	24.24
12H	4H	21.04	21.88	21.52	22.36	22.82	21.04	21.88	21.52	22.36	22.82
	6H	21.96	22.66	22.46	23.16	23.64	21.96	22.66	22.46	23.16	23.64
	8H	22.40	23.01	22.90	23.50	24.06	22.40	23.01	22.90	23.50	24.06