

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: P867410

Luminaire Tested: PRLX-2004-L-940-48L-G-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867410  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-74)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-L-940-48L-G-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
BELL WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

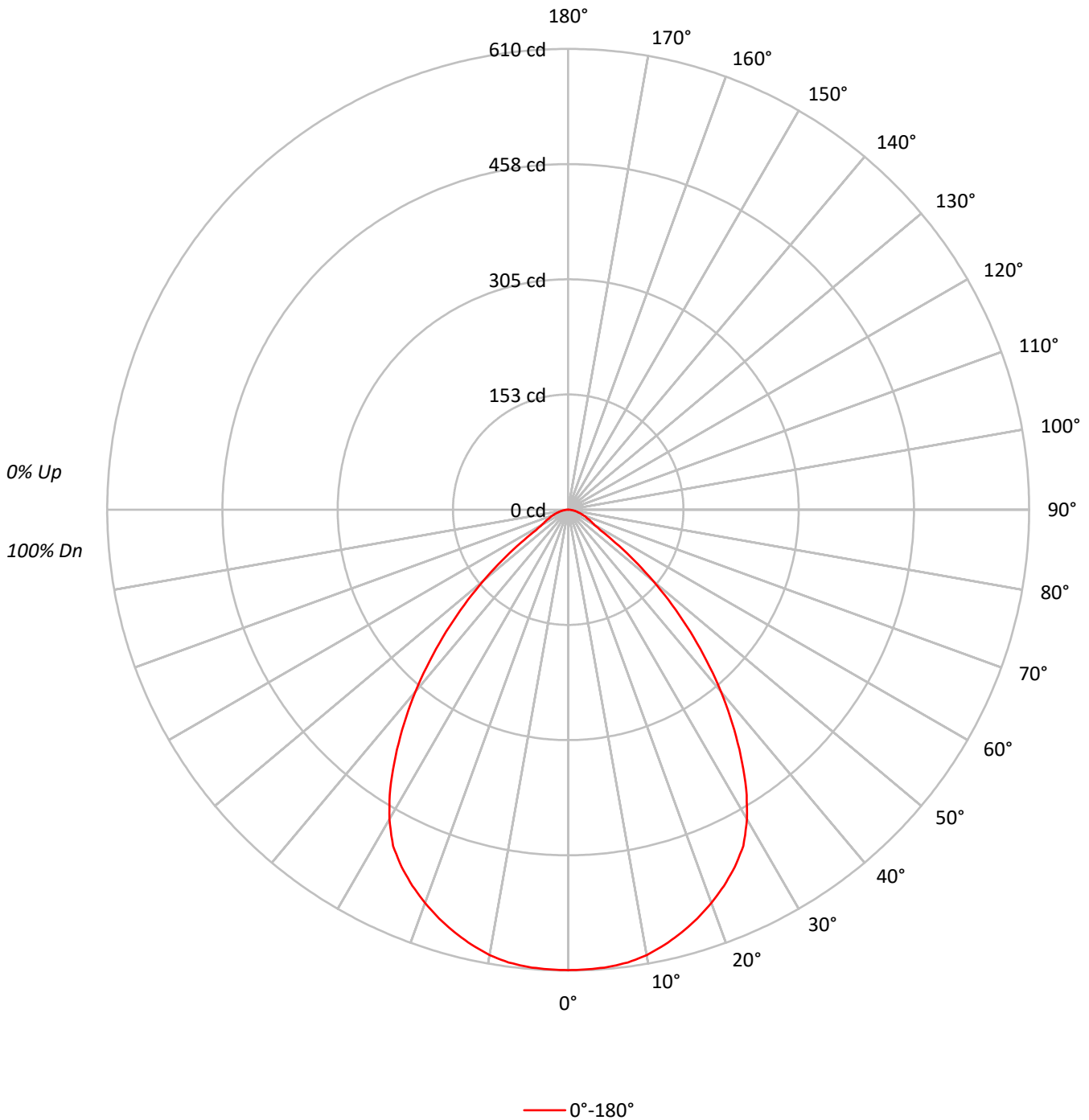
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1005.5 lumens  
Efficiency: N/A  
Efficacy: 26.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.15  
Luminous Opening: Circular (Dia: 1.67' 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: 0.333 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	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	85	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		74	70	66	64
5	85	75	67	62	83	73	67	62	72	66	61		70	64	60		68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55		64	59	55		63	58	54	53
7	74	63	56	51	73	62	55	50	61	55	50		60	54	50		58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46		55	50	45		54	49	45	44
9	66	54	47	42	64	54	47	42	53	46	42		52	46	42		51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39		48	42	39		47	42	38	37

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

	0°
0°	3007
5°	3010
10°	2999
15°	2959
20°	2908
25°	2839
30°	2696
35°	2400
40°	2026
45°	1594
50°	1123
55°	655
60°	396
65°	341
70°	303
75°	269
80°	247
85°	232

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1594 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.7	5.7
10°-20°	163.3	16.2
20°-30°	239.1	23.8
30°-40°	247.4	24.6
40°-50°	175.6	17.5
50°-60°	73.1	7.3
60°-70°	29.5	2.9
70°-80°	15.2	1.5
80°-90°	4.5	0.5
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°	460.1	45.8
0°-40°	707.5	70.4
0°-60°	956.3	95.1
0°-90°	1005.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1005.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	610	
5°	608	58
15°	579	163
25°	522	239
35°	398	247
45°	228	176
55°	76	73
65°	29	30
75°	14	15
85°	4	5
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	609.5
2.5°	609.0
5°	607.7
7.5°	604.5
10°	598.6
12.5°	589.9
15°	579.4
17.5°	567.6
20°	553.9
22.5°	538.8
25°	521.5
27.5°	501.9
30°	473.2
32.5°	438.5
35°	398.4
37.5°	356.9
40°	314.5
42.5°	271.2
45°	228.4
47.5°	186.4
50°	146.3
52.5°	110.3
55°	76.1
57.5°	50.6
60°	40.1
62.5°	34.6
65°	29.2
67.5°	25.1
70°	21.0
72.5°	17.3
75°	14.1
77.5°	11.4
80°	8.7
82.5°	6.4
85°	4.1
87.5°	1.8
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	5.76	7.05	6.12	7.36	7.67	5.76	7.05	6.12	7.36	7.67
	3H	6.83	7.97	7.21	8.30	8.66	6.83	7.97	7.21	8.30	8.66
	4H	7.22	8.28	7.63	8.63	9.02	7.22	8.28	7.63	8.63	9.02
	6H	7.53	8.50	7.94	8.87	9.26	7.53	8.50	7.94	8.87	9.26
	8H	7.63	8.55	8.06	8.94	9.35	7.63	8.55	8.06	8.94	9.35
	12H	7.70	8.58	8.13	8.96	9.39	7.70	8.58	8.13	8.96	9.39
4H	2H	6.07	7.12	6.47	7.48	7.86	6.07	7.12	6.47	7.48	7.86
	3H	7.36	8.22	7.77	8.62	9.02	7.36	8.22	7.77	8.62	9.02
	4H	7.86	8.63	8.30	9.05	9.50	7.86	8.63	8.30	9.05	9.50
	6H	8.29	8.95	8.76	9.40	9.87	8.29	8.95	8.76	9.40	9.87
	8H	8.44	9.06	8.91	9.50	9.97	8.44	9.06	8.91	9.50	9.97
	12H	8.55	9.09	9.04	9.58	10.05	8.55	9.09	9.04	9.58	10.05
8H	4H	8.02	8.64	8.49	9.08	9.56	8.02	8.64	8.49	9.08	9.56
	6H	8.55	9.06	9.06	9.56	10.04	8.55	9.06	9.06	9.56	10.04
	8H	8.77	9.23	9.30	9.74	10.24	8.77	9.23	9.30	9.74	10.24
	12H	8.96	9.36	9.48	9.86	10.43	8.96	9.36	9.48	9.86	10.43
12H	4H	8.01	8.56	8.50	9.04	9.52	8.01	8.56	8.50	9.04	9.52
	6H	8.57	9.03	9.10	9.55	10.04	8.57	9.03	9.10	9.55	10.04
	8H	8.84	9.25	9.36	9.74	10.32	8.84	9.25	9.36	9.74	10.32