

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: P867154

Luminaire Tested: PRLX-2002-L-940-48L-G-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867154  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-940-48L-G-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

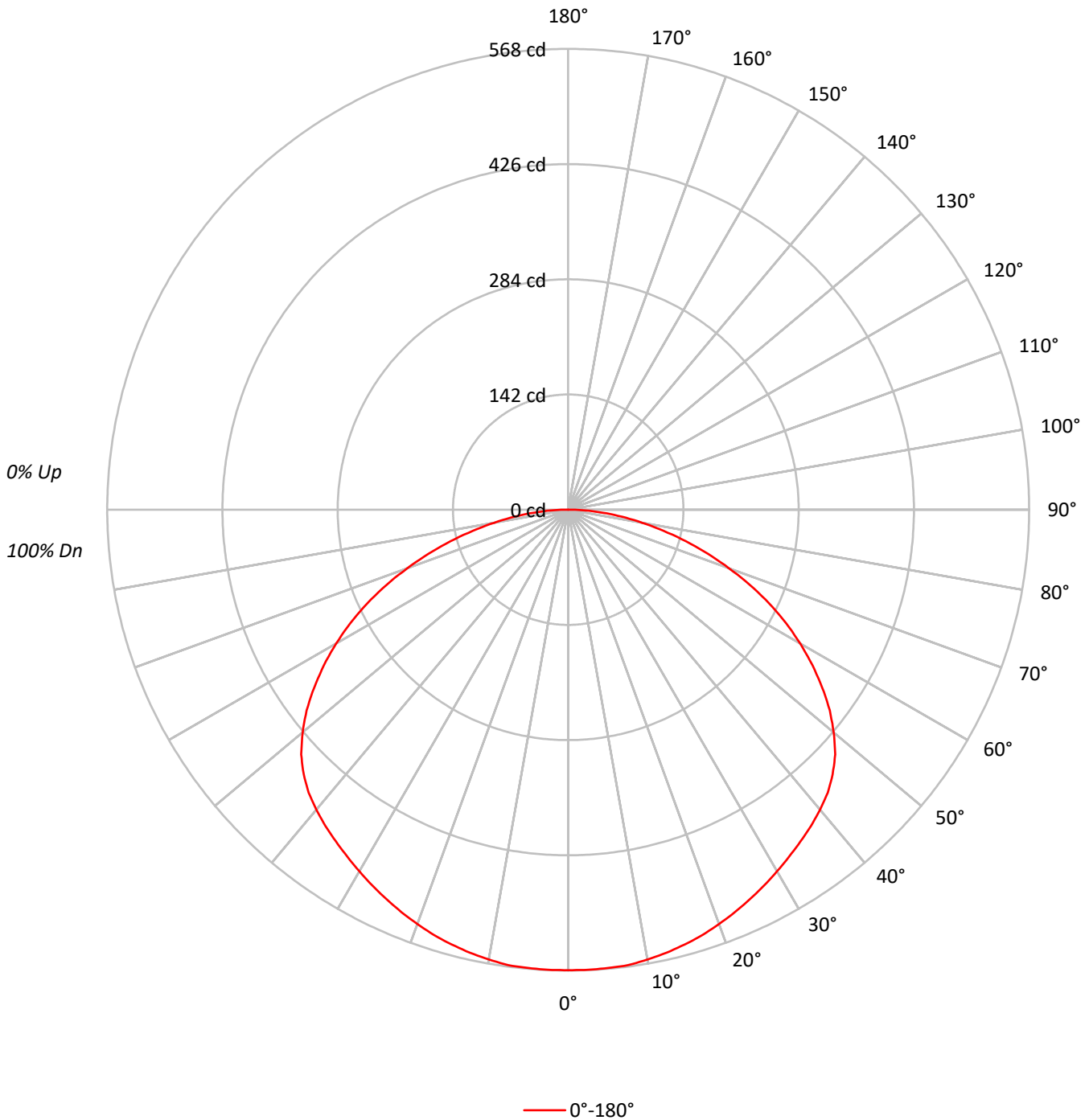
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1940.9 lumens  
Efficiency: N/A  
Efficacy: 51.8 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.5  
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: 0.5 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	101	96	93	96	93	90		92	89	87		89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73		80	75	71		77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	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		50	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	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	29	24		35	28	23		34	28	23	22

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

	0°
0°	2800
5°	2809
10°	2821
15°	2834
20°	2853
25°	2884
30°	2932
35°	3007
40°	3110
45°	3216
50°	3278
55°	3286
60°	3256
65°	3188
70°	3038
75°	2859
80°	2628
85°	2429

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 3292 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.0	2.8
10°-20°	156.8	8.1
20°-30°	244.7	12.6
30°-40°	313.1	16.1
40°-50°	354.8	18.3
50°-60°	340.9	17.6
60°-70°	269.4	13.9
70°-80°	158.8	8.2
80°-90°	48.3	2.5
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°	455.6	23.5
0°-40°	768.7	39.6
0°-60°	1464.4	75.4
0°-90°	1940.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1940.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	568	
5°	567	54
15°	555	157
25°	530	245
35°	499	313
45°	461	355
55°	382	341
65°	273	269
75°	150	159
85°	43	48
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	567.6
2.5°	567.6
5°	567.1
7.5°	566.2
10°	563.0
12.5°	559.3
15°	554.8
17.5°	549.8
20°	543.4
22.5°	537.0
25°	529.7
27.5°	522.4
30°	514.7
32.5°	506.9
35°	499.2
37.5°	491.4
40°	482.8
42.5°	473.2
45°	460.9
47.5°	446.3
50°	427.1
52.5°	406.2
55°	382.0
57.5°	356.9
60°	330.0
62.5°	302.7
65°	273.1
67.5°	242.5
70°	210.6
72.5°	180.5
75°	150.0
77.5°	120.3
80°	92.5
82.5°	66.6
85°	42.9
87.5°	21.9
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	16.58	18.29	16.95	18.60	18.92	16.58	18.29	16.95	18.60	18.92
	3H	18.50	20.05	18.87	20.37	20.73	18.50	20.05	18.87	20.37	20.73
	4H	19.22	20.68	19.62	21.03	21.40	19.22	20.68	19.62	21.03	21.40
	6H	19.76	21.12	20.17	21.49	21.88	19.76	21.12	20.17	21.49	21.88
	8H	19.95	21.25	20.37	21.64	22.04	19.95	21.25	20.37	21.64	22.04
	12H	20.09	21.34	20.52	21.72	22.15	20.09	21.34	20.52	21.72	22.15
4H	2H	17.27	18.73	17.66	19.08	19.45	17.27	18.73	17.66	19.08	19.45
	3H	19.40	20.63	19.80	21.03	21.42	19.40	20.63	19.80	21.03	21.42
	4H	20.25	21.37	20.68	21.78	22.22	20.25	21.37	20.68	21.78	22.22
	6H	20.93	21.91	21.38	22.35	22.80	20.93	21.91	21.38	22.35	22.80
	8H	21.17	22.09	21.63	22.53	22.99	21.17	22.09	21.63	22.53	22.99
	12H	21.36	22.19	21.84	22.66	23.13	21.36	22.19	21.84	22.66	23.13
8H	4H	20.59	21.52	21.05	21.96	22.42	20.59	21.52	21.05	21.96	22.42
	6H	21.40	22.17	21.89	22.66	23.13	21.40	22.17	21.89	22.66	23.13
	8H	21.73	22.42	22.23	22.92	23.40	21.73	22.42	22.23	22.92	23.40
	12H	22.00	22.61	22.51	23.10	23.66	22.00	22.61	22.51	23.10	23.66
12H	4H	20.64	21.47	21.12	21.94	22.41	20.64	21.47	21.12	21.94	22.41
	6H	21.47	22.17	21.98	22.67	23.15	21.47	22.17	21.98	22.67	23.15
	8H	21.86	22.47	22.36	22.96	23.52	21.86	22.47	22.36	22.96	23.52