

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: P866895

Luminaire Tested: PRLX-2001-L-940-48L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866895  
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-940-48L-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 3  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

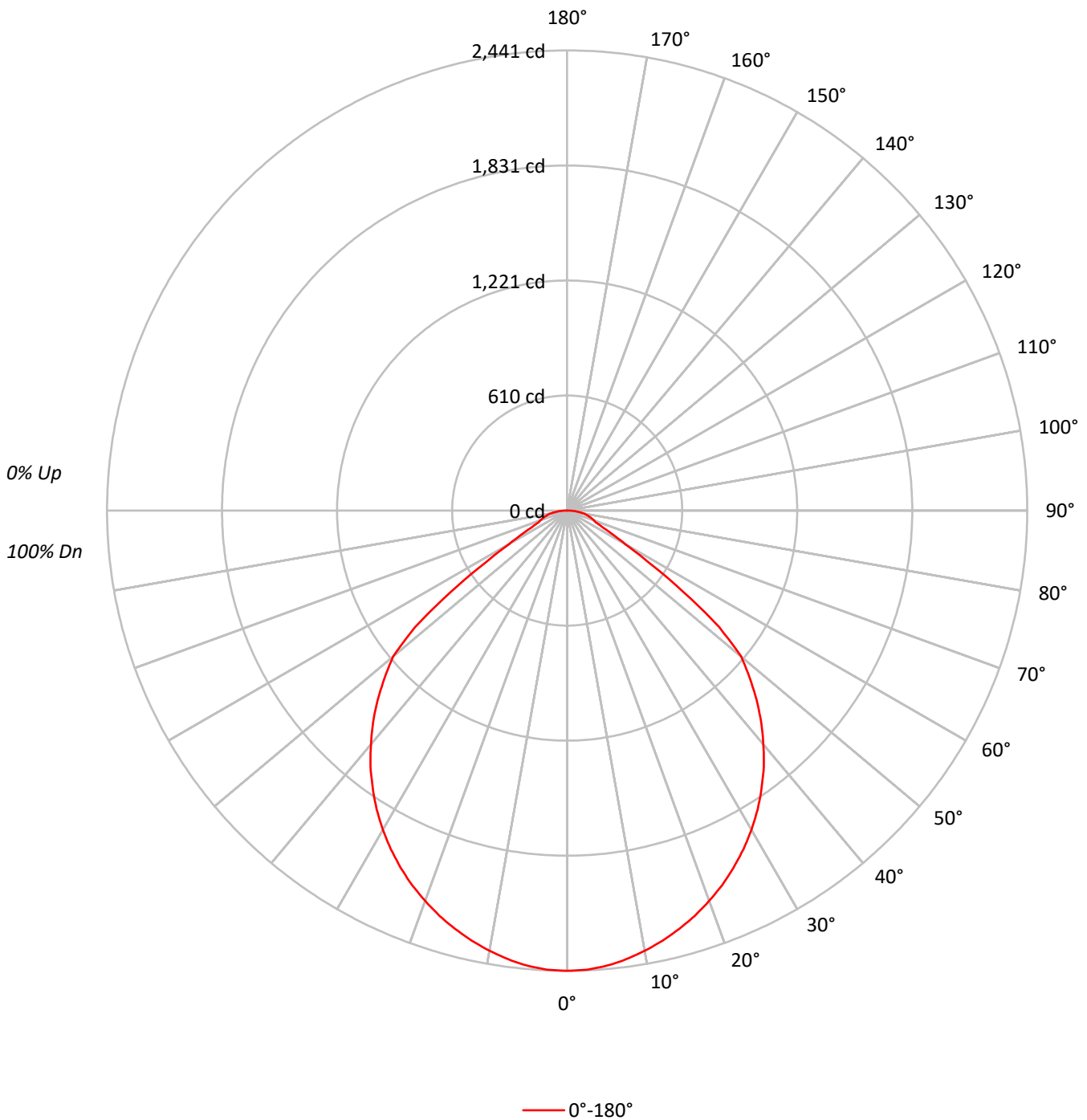
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5133.2 lumens  
Efficiency: N/A  
Efficacy: 136.9 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): 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: 0.333 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°	13346
5°	13299
10°	13162
15°	13001
20°	12818
25°	12605
30°	12340
35°	11999
40°	11559
45°	10985
50°	10251
55°	7200
60°	3898
65°	2653
70°	2412
75°	2562
80°	2755
85°	2948

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10985 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.7	4.5
10°-20°	647.8	12.6
20°-30°	962.2	18.7
30°-40°	1123.4	21.9
40°-50°	1093.5	21.3
50°-60°	680.4	13.3
60°-70°	219.3	4.3
70°-80°	127.3	2.5
80°-90°	49.8	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°	1839.6	35.8
0°-40°	2963.0	57.7
0°-60°	4736.9	92.3
0°-90°	5133.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5133.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2441	
5°	2423	230
15°	2297	648
25°	2090	962
35°	1798	1123
45°	1421	1093
55°	755	680
65°	205	219
75°	121	127
85°	47	50
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2441.2
2.5°	2438.4
5°	2423.4
7.5°	2400.6
10°	2371.0
12.5°	2337.2
15°	2297.1
17.5°	2253.3
20°	2203.2
22.5°	2150.3
25°	2089.7
27.5°	2025.0
30°	1954.8
32.5°	1880.4
35°	1797.9
37.5°	1713.6
40°	1619.7
42.5°	1524.4
45°	1420.9
47.5°	1312.9
50°	1205.3
52.5°	1017.5
55°	755.4
57.5°	514.7
60°	356.5
62.5°	266.2
65°	205.1
67.5°	164.1
70°	150.9
72.5°	136.3
75°	121.3
77.5°	105.3
80°	87.5
82.5°	68.4
85°	47.0
87.5°	23.7
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	16.31	17.76	16.67	18.07	18.39	16.31	17.76	16.67	18.07	18.39
	3H	16.79	18.07	17.17	18.40	18.77	16.79	18.07	17.17	18.40	18.77
	4H	17.11	18.31	17.51	18.66	19.04	17.11	18.31	17.51	18.66	19.04
	6H	17.46	18.56	17.87	18.93	19.33	17.46	18.56	17.87	18.93	19.33
	8H	17.61	18.66	18.04	19.05	19.46	17.61	18.66	18.04	19.05	19.46
	12H	17.74	18.74	18.17	19.13	19.56	17.74	18.74	18.17	19.13	19.56
4H	2H	16.39	17.59	16.79	17.94	18.32	16.39	17.59	16.79	17.94	18.32
	3H	17.08	18.07	17.49	18.47	18.87	17.08	18.07	17.49	18.47	18.87
	4H	17.55	18.43	17.99	18.85	19.29	17.55	18.43	17.99	18.85	19.29
	6H	18.08	18.84	18.54	19.29	19.75	18.08	18.84	18.54	19.29	19.75
	8H	18.31	19.02	18.77	19.47	19.94	18.31	19.02	18.77	19.47	19.94
	12H	18.51	19.14	18.99	19.63	20.10	18.51	19.14	18.99	19.63	20.10
8H	4H	17.72	18.43	18.18	18.88	19.35	17.72	18.43	18.18	18.88	19.35
	6H	18.39	18.98	18.89	19.47	19.95	18.39	18.98	18.89	19.47	19.95
	8H	18.71	19.25	19.23	19.76	20.25	18.71	19.25	19.23	19.76	20.25
	12H	19.02	19.50	19.53	19.99	20.56	19.02	19.50	19.53	19.99	20.56
12H	4H	17.74	18.37	18.22	18.85	19.32	17.74	18.37	18.22	18.85	19.32
	6H	18.44	18.97	18.95	19.48	19.97	18.44	18.97	18.95	19.48	19.97
	8H	18.83	19.31	19.34	19.80	20.37	18.83	19.31	19.34	19.80	20.37