

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: P866867

Luminaire Tested: PRLX-2001-L-940-117L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866867  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-940-117L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

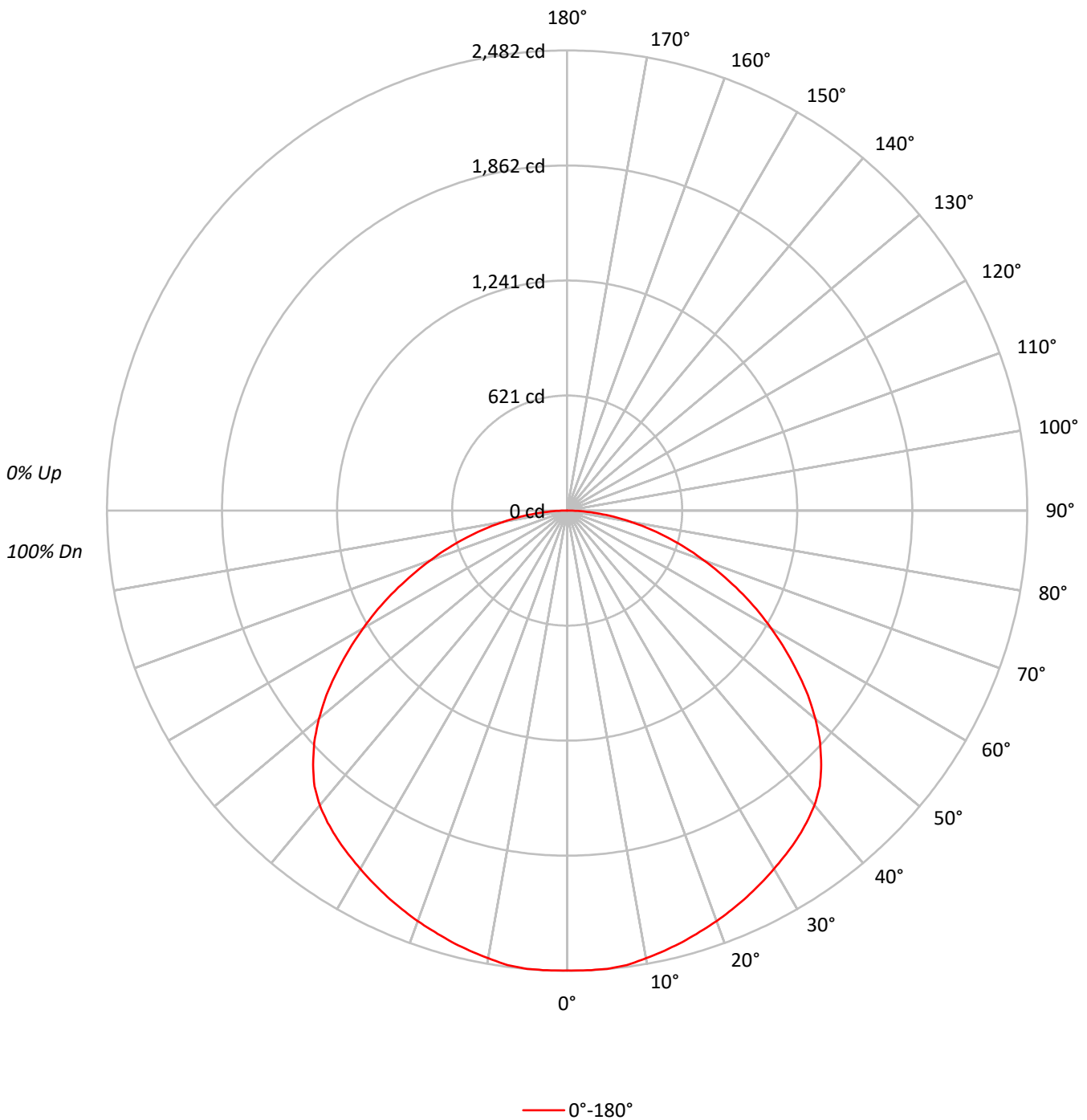
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7964.6 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

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

	0°
0°	13564
5°	13616
10°	13610
15°	13631
20°	13708
25°	13859
30°	14085
35°	14427
40°	14815
45°	14983
50°	14866
55°	14444
60°	13897
65°	13266
70°	12554
75°	11795
80°	10978
85°	9810

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14983 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.9	3.0
10°-20°	680.8	8.5
20°-30°	1061.1	13.3
30°-40°	1354.2	17.0
40°-50°	1490.6	18.7
50°-60°	1354.4	17.0
60°-70°	1016.0	12.8
70°-80°	593.9	7.5
80°-90°	177.8	2.2
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°	1977.8	24.8
0°-40°	3331.9	41.8
0°-60°	6176.9	77.6
0°-90°	7964.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7964.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2481	
5°	2481	236
15°	2408	681
25°	2298	1061
35°	2162	1354
45°	1938	1491
55°	1515	1354
65°	1026	1016
75°	558	594
85°	156	178
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2481.1
2.5°	2482.2
5°	2481.1
7.5°	2472.4
10°	2451.8
12.5°	2431.2
15°	2408.4
17.5°	2382.3
20°	2356.2
22.5°	2328.0
25°	2297.5
27.5°	2265.0
30°	2231.3
32.5°	2197.6
35°	2161.8
37.5°	2121.6
40°	2075.9
42.5°	2017.3
45°	1938.0
47.5°	1850.0
50°	1747.9
52.5°	1637.1
55°	1515.4
57.5°	1394.8
60°	1271.0
62.5°	1150.4
65°	1025.5
67.5°	902.7
70°	785.4
72.5°	672.4
75°	558.4
77.5°	454.1
80°	348.7
82.5°	249.9
85°	156.4
87.5°	72.8
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	21.54	23.21	21.90	23.53	23.84	21.54	23.21	21.90	23.53	23.84
	3H	23.31	24.83	23.69	25.15	25.51	23.31	24.83	23.69	25.15	25.51
	4H	23.99	25.43	24.39	25.77	26.15	23.99	25.43	24.39	25.77	26.15
	6H	24.53	25.86	24.94	26.22	26.61	24.53	25.86	24.94	26.22	26.61
	8H	24.71	25.98	25.13	26.37	26.77	24.71	25.98	25.13	26.37	26.77
	12H	24.84	26.06	25.27	26.44	26.87	24.84	26.06	25.27	26.44	26.87
4H	2H	22.16	23.60	22.56	23.94	24.32	22.16	23.60	22.56	23.94	24.32
	3H	24.17	25.37	24.58	25.77	26.17	24.17	25.37	24.58	25.77	26.17
	4H	24.99	26.08	25.42	26.49	26.92	24.99	26.08	25.42	26.49	26.92
	6H	25.66	26.61	26.11	27.05	27.51	25.66	26.61	26.11	27.05	27.51
	8H	25.89	26.79	26.35	27.23	27.69	25.89	26.79	26.35	27.23	27.69
	12H	26.07	26.88	26.55	27.35	27.82	26.07	26.88	26.55	27.35	27.82
8H	4H	25.32	26.21	25.78	26.65	27.12	25.32	26.21	25.78	26.65	27.12
	6H	26.12	26.87	26.61	27.35	27.83	26.12	26.87	26.61	27.35	27.83
	8H	26.43	27.11	26.94	27.61	28.09	26.43	27.11	26.94	27.61	28.09
	12H	26.69	27.29	27.20	27.78	28.34	26.69	27.29	27.20	27.78	28.34
12H	4H	25.36	26.17	25.84	26.64	27.11	25.36	26.17	25.84	26.64	27.11
	6H	26.19	26.86	26.69	27.36	27.85	26.19	26.86	26.69	27.36	27.85
	8H	26.56	27.16	27.07	27.65	28.21	26.56	27.16	27.07	27.65	28.21