

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: P866859

Luminaire Tested: PRLX-2001-L-940-100L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866859  
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-940-100L-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 6  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

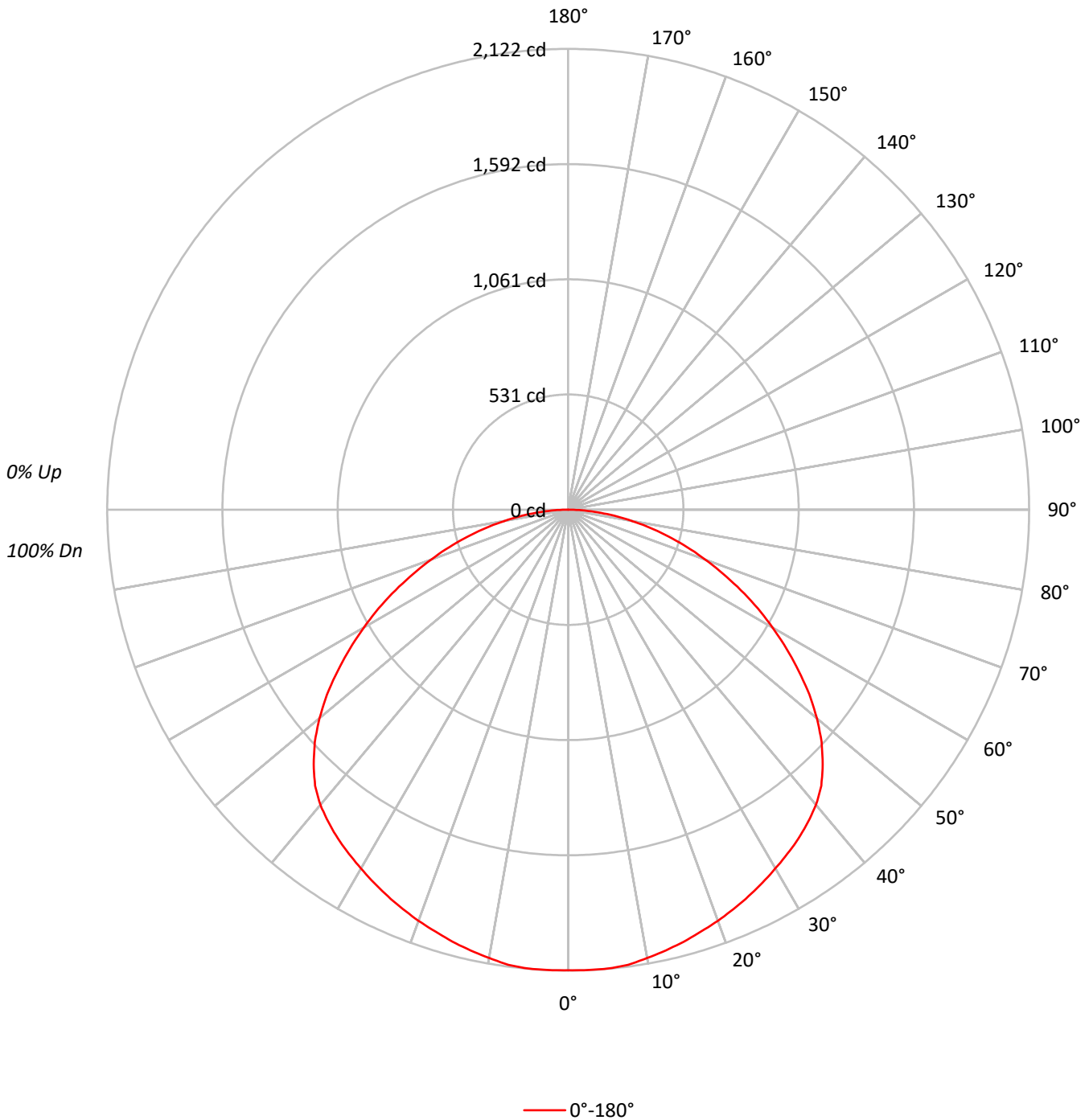
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6809.0 lumens  
Efficiency: N/A  
Efficacy: 85.8 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): 79.4  
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°	11596
5°	11640
10°	11636
15°	11653
20°	11719
25°	11848
30°	12041
35°	12334
40°	12665
45°	12809
50°	12709
55°	12348
60°	11881
65°	11341
70°	10732
75°	10084
80°	9385
85°	8386

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12809 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.7	3.0
10°-20°	582.0	8.5
20°-30°	907.1	13.3
30°-40°	1157.7	17.0
40°-50°	1274.4	18.7
50°-60°	1157.8	17.0
60°-70°	868.6	12.8
70°-80°	507.7	7.5
80°-90°	152.0	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°	1690.8	24.8
0°-40°	2848.5	41.8
0°-60°	5280.7	77.6
0°-90°	6809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6809.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2121	
5°	2121	202
15°	2059	582
25°	1964	907
35°	1848	1158
45°	1657	1274
55°	1296	1158
65°	877	869
75°	477	508
85°	134	152
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2121.1
2.5°	2122.1
5°	2121.1
7.5°	2113.7
10°	2096.1
12.5°	2078.4
15°	2058.9
17.5°	2036.6
20°	2014.3
22.5°	1990.2
25°	1964.2
27.5°	1936.3
30°	1907.5
32.5°	1878.8
35°	1848.1
37.5°	1813.7
40°	1774.7
42.5°	1724.6
45°	1656.8
47.5°	1581.6
50°	1494.3
52.5°	1399.5
55°	1295.5
57.5°	1192.5
60°	1086.6
62.5°	983.5
65°	876.7
67.5°	771.7
70°	671.4
72.5°	574.9
75°	477.4
77.5°	388.2
80°	298.1
82.5°	213.6
85°	133.7
87.5°	62.2
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	20.99	22.67	21.36	22.98	23.30	20.99	22.67	21.36	22.98	23.30
	3H	22.77	24.28	23.14	24.61	24.97	22.77	24.28	23.14	24.61	24.97
	4H	23.45	24.88	23.85	25.23	25.60	23.45	24.88	23.85	25.23	25.60
	6H	23.98	25.31	24.39	25.68	26.07	23.98	25.31	24.39	25.68	26.07
	8H	24.17	25.44	24.59	25.83	26.22	24.17	25.44	24.59	25.83	26.22
	12H	24.29	25.51	24.72	25.89	26.32	24.29	25.51	24.72	25.89	26.32
4H	2H	21.62	23.05	22.02	23.40	23.77	21.62	23.05	22.02	23.40	23.77
	3H	23.62	24.83	24.03	25.22	25.62	23.62	24.83	24.03	25.22	25.62
	4H	24.44	25.53	24.87	25.95	26.38	24.44	25.53	24.87	25.95	26.38
	6H	25.11	26.07	25.56	26.51	26.96	25.11	26.07	25.56	26.51	26.96
	8H	25.35	26.24	25.81	26.68	27.15	25.35	26.24	25.81	26.68	27.15
	12H	25.53	26.33	26.00	26.81	27.28	25.53	26.33	26.00	26.81	27.28
8H	4H	24.77	25.67	25.23	26.11	26.57	24.77	25.67	25.23	26.11	26.57
	6H	25.57	26.32	26.07	26.81	27.28	25.57	26.32	26.07	26.81	27.28
	8H	25.89	26.56	26.40	27.07	27.55	25.89	26.56	26.40	27.07	27.55
	12H	26.15	26.74	26.65	27.23	27.79	26.15	26.74	26.65	27.23	27.79
12H	4H	24.81	25.62	25.29	26.10	26.56	24.81	25.62	25.29	26.10	26.56
	6H	25.64	26.31	26.15	26.82	27.30	25.64	26.31	26.15	26.82	27.30
	8H	26.02	26.61	26.52	27.10	27.66	26.02	26.61	26.52	27.10	27.66