

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: P866971

Luminaire Tested: PRLX-2002-L-927-67L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-927-67L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

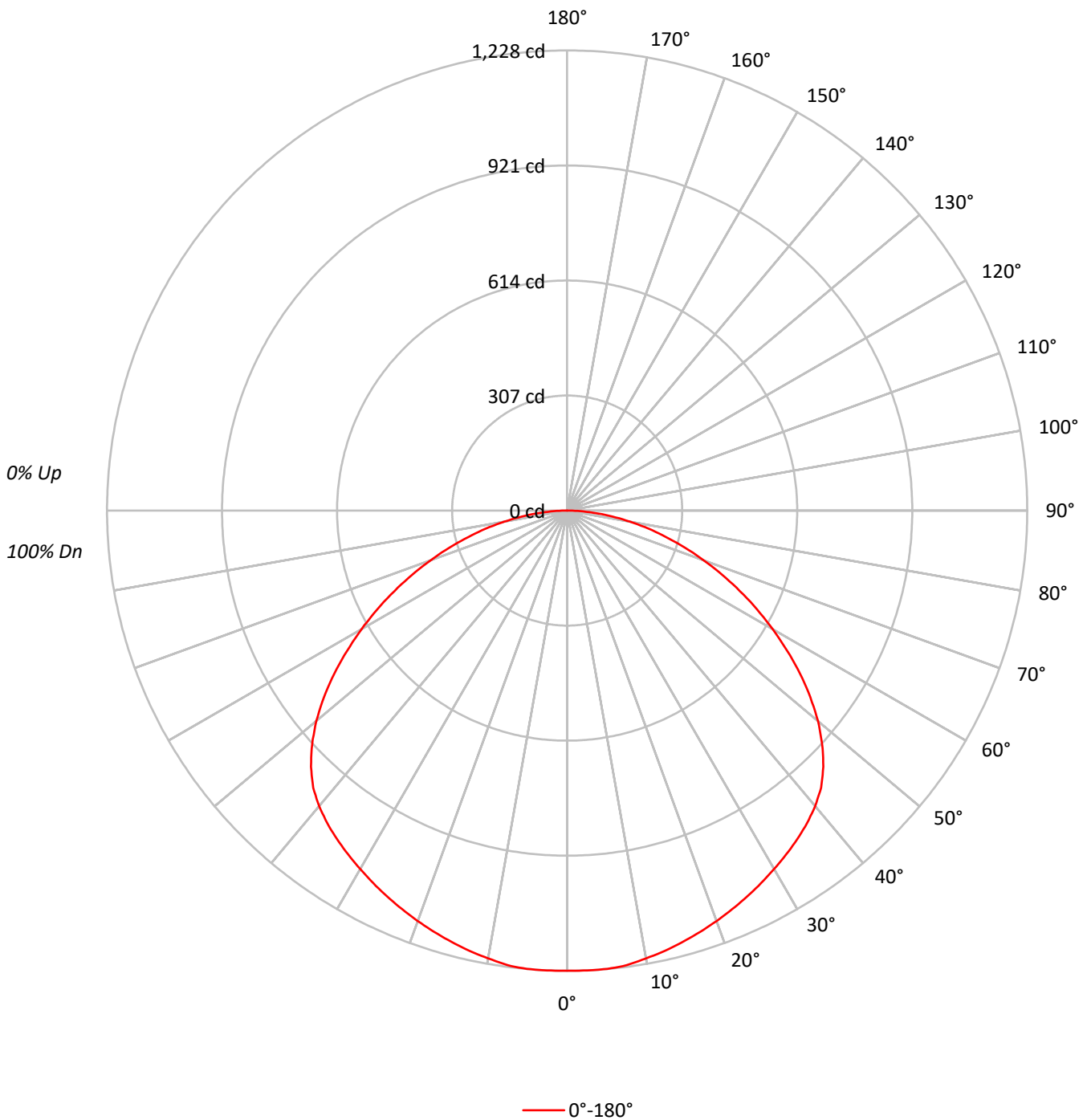
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3951.0 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 50.4  
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	94	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	27	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	24		35	29	24	23

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

	0°
0°	6058
5°	6081
10°	6080
15°	6087
20°	6120
25°	6186
30°	6292
35°	6448
40°	6631
45°	6747
50°	6707
55°	6529
60°	6257
65°	5939
70°	5583
75°	5208
80°	4833
85°	4302

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6747 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.8	3.0
10°-20°	336.9	8.5
20°-30°	525.0	13.3
30°-40°	670.9	17.0
40°-50°	742.8	18.8
50°-60°	676.9	17.1
60°-70°	504.4	12.8
70°-80°	291.2	7.4
80°-90°	86.3	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°	978.6	24.8
0°-40°	1649.5	41.7
0°-60°	3069.2	77.7
0°-90°	3951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3951.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1228	
5°	1228	117
15°	1192	337
25°	1136	525
35°	1070	671
45°	967	743
55°	759	677
65°	509	504
75°	273	291
85°	76	86
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1227.9
2.5°	1228.4
5°	1227.9
7.5°	1223.6
10°	1213.5
12.5°	1203.4
15°	1191.7
17.5°	1178.9
20°	1165.7
22.5°	1151.3
25°	1136.4
27.5°	1121.0
30°	1104.5
32.5°	1088.1
35°	1070.5
37.5°	1051.9
40°	1029.6
42.5°	1003.0
45°	966.9
47.5°	923.3
50°	873.8
52.5°	818.0
55°	759.0
57.5°	696.3
60°	634.1
62.5°	571.4
65°	508.7
67.5°	448.1
70°	387.0
72.5°	330.1
75°	273.2
77.5°	222.2
80°	170.1
82.5°	121.2
85°	76.0
87.5°	35.1
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	18.79	20.46	19.15	20.78	21.09	18.79	20.46	19.15	20.78	21.09
	3H	20.54	22.06	20.91	22.38	22.74	20.54	22.06	20.91	22.38	22.74
	4H	21.20	22.63	21.60	22.98	23.36	21.20	22.63	21.60	22.98	23.36
	6H	21.72	23.05	22.13	23.41	23.80	21.72	23.05	22.13	23.41	23.80
	8H	21.89	23.17	22.32	23.55	23.95	21.89	23.17	22.32	23.55	23.95
	12H	22.02	23.24	22.45	23.62	24.05	22.02	23.24	22.45	23.62	24.05
4H	2H	19.41	20.84	19.80	21.19	21.56	19.41	20.84	19.80	21.19	21.56
	3H	21.38	22.59	21.79	22.98	23.38	21.38	22.59	21.79	22.98	23.38
	4H	22.18	23.27	22.61	23.68	24.12	22.18	23.27	22.61	23.68	24.12
	6H	22.83	23.79	23.29	24.23	24.68	22.83	23.79	23.29	24.23	24.68
	8H	23.06	23.96	23.52	24.40	24.86	23.06	23.96	23.52	24.40	24.86
	12H	23.23	24.04	23.71	24.51	24.98	23.23	24.04	23.71	24.51	24.98
8H	4H	22.50	23.40	22.96	23.84	24.30	22.50	23.40	22.96	23.84	24.30
	6H	23.29	24.03	23.78	24.52	24.99	23.29	24.03	23.78	24.52	24.99
	8H	23.59	24.26	24.10	24.77	25.25	23.59	24.26	24.10	24.77	25.25
	12H	23.84	24.44	24.35	24.93	25.49	23.84	24.44	24.35	24.93	25.49
12H	4H	22.54	23.35	23.02	23.82	24.29	22.54	23.35	23.02	23.82	24.29
	6H	23.35	24.02	23.86	24.53	25.01	23.35	24.02	23.86	24.53	25.01
	8H	23.72	24.31	24.22	24.80	25.36	23.72	24.31	24.22	24.80	25.36