

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: P866931

Luminaire Tested: PRLX-2002-L-927-117L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866931  
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-927-117L-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 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

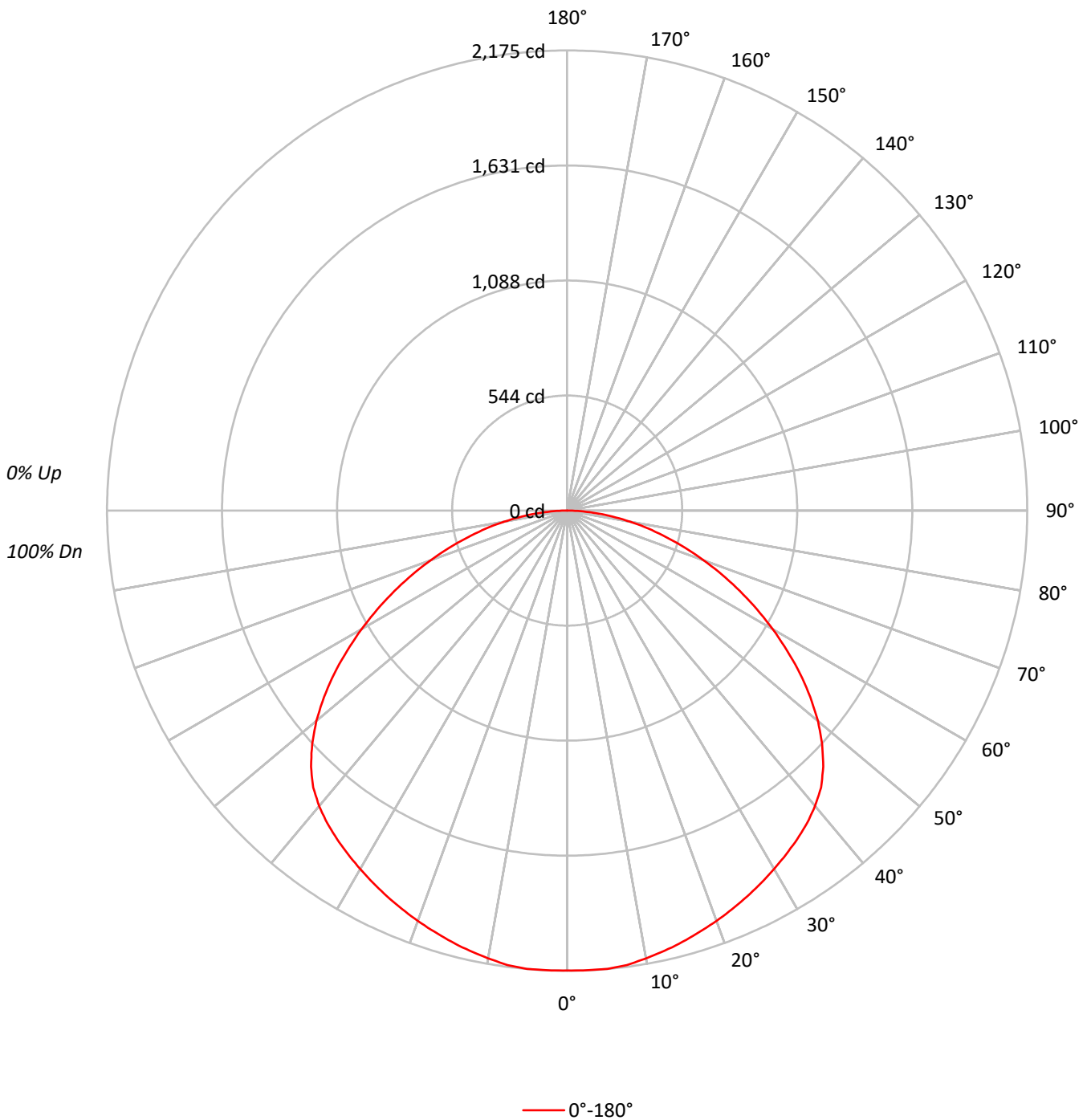
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6996.3 lumens  
Efficiency: N/A  
Efficacy: 73.5 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): 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	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°	10727
5°	10768
10°	10765
15°	10779
20°	10837
25°	10955
30°	11142
35°	11417
40°	11742
45°	11946
50°	11877
55°	11562
60°	11080
65°	10515
70°	9884
75°	9223
80°	8558
85°	7620

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11946 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.8	3.0
10°-20°	596.5	8.5
20°-30°	929.6	13.3
30°-40°	1188.0	17.0
40°-50°	1315.2	18.8
50°-60°	1198.7	17.1
60°-70°	893.1	12.8
70°-80°	515.5	7.4
80°-90°	152.9	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°	1732.9	24.8
0°-40°	2920.8	41.7
0°-60°	5434.8	77.7
0°-90°	6996.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6996.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2174	
5°	2174	207
15°	2110	597
25°	2012	930
35°	1896	1188
45°	1712	1315
55°	1344	1199
65°	901	893
75°	484	516
85°	135	153
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2174.2
2.5°	2175.1
5°	2174.2
7.5°	2166.7
10°	2148.8
12.5°	2130.9
15°	2110.2
17.5°	2087.6
20°	2064.1
22.5°	2038.7
25°	2012.3
27.5°	1985.0
30°	1955.8
32.5°	1926.7
35°	1895.6
37.5°	1862.7
40°	1823.1
42.5°	1776.1
45°	1712.1
47.5°	1634.9
50°	1547.4
52.5°	1448.5
55°	1344.1
57.5°	1233.0
60°	1122.9
62.5°	1011.8
65°	900.7
67.5°	793.4
70°	685.2
72.5°	584.5
75°	483.8
77.5°	393.4
80°	301.2
82.5°	214.6
85°	134.6
87.5°	62.1
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	20.77	22.45	21.14	22.76	23.08	20.77	22.45	21.14	22.76	23.08
	3H	22.52	24.04	22.90	24.37	24.73	22.52	24.04	22.90	24.37	24.73
	4H	23.19	24.62	23.58	24.97	25.34	23.19	24.62	23.58	24.97	25.34
	6H	23.70	25.03	24.11	25.40	25.79	23.70	25.03	24.11	25.40	25.79
	8H	23.88	25.15	24.30	25.54	25.94	23.88	25.15	24.30	25.54	25.94
	12H	24.00	25.22	24.43	25.60	26.03	24.00	25.22	24.43	25.60	26.03
4H	2H	21.39	22.82	21.79	23.17	23.55	21.39	22.82	21.79	23.17	23.55
	3H	23.37	24.57	23.78	24.97	25.37	23.37	24.57	23.78	24.97	25.37
	4H	24.16	25.25	24.59	25.67	26.10	24.16	25.25	24.59	25.67	26.10
	6H	24.82	25.77	25.27	26.21	26.67	24.82	25.77	25.27	26.21	26.67
	8H	25.05	25.94	25.50	26.38	26.85	25.05	25.94	25.50	26.38	26.85
	12H	25.22	26.02	25.70	26.50	26.97	25.22	26.02	25.70	26.50	26.97
8H	4H	24.49	25.38	24.95	25.82	26.29	24.49	25.38	24.95	25.82	26.29
	6H	25.27	26.02	25.76	26.50	26.98	25.27	26.02	25.76	26.50	26.98
	8H	25.58	26.25	26.08	26.75	27.24	25.58	26.25	26.08	26.75	27.24
	12H	25.83	26.42	26.33	26.91	27.47	25.83	26.42	26.33	26.91	27.47
12H	4H	24.53	25.33	25.01	25.81	26.28	24.53	25.33	25.01	25.81	26.28
	6H	25.34	26.01	25.84	26.51	27.00	25.34	26.01	25.84	26.51	27.00
	8H	25.70	26.30	26.21	26.79	27.34	25.70	26.30	26.21	26.79	27.34