

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: P867123

Luminaire Tested: PRLX-2002-L-940-117L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867123  
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-940-117L-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

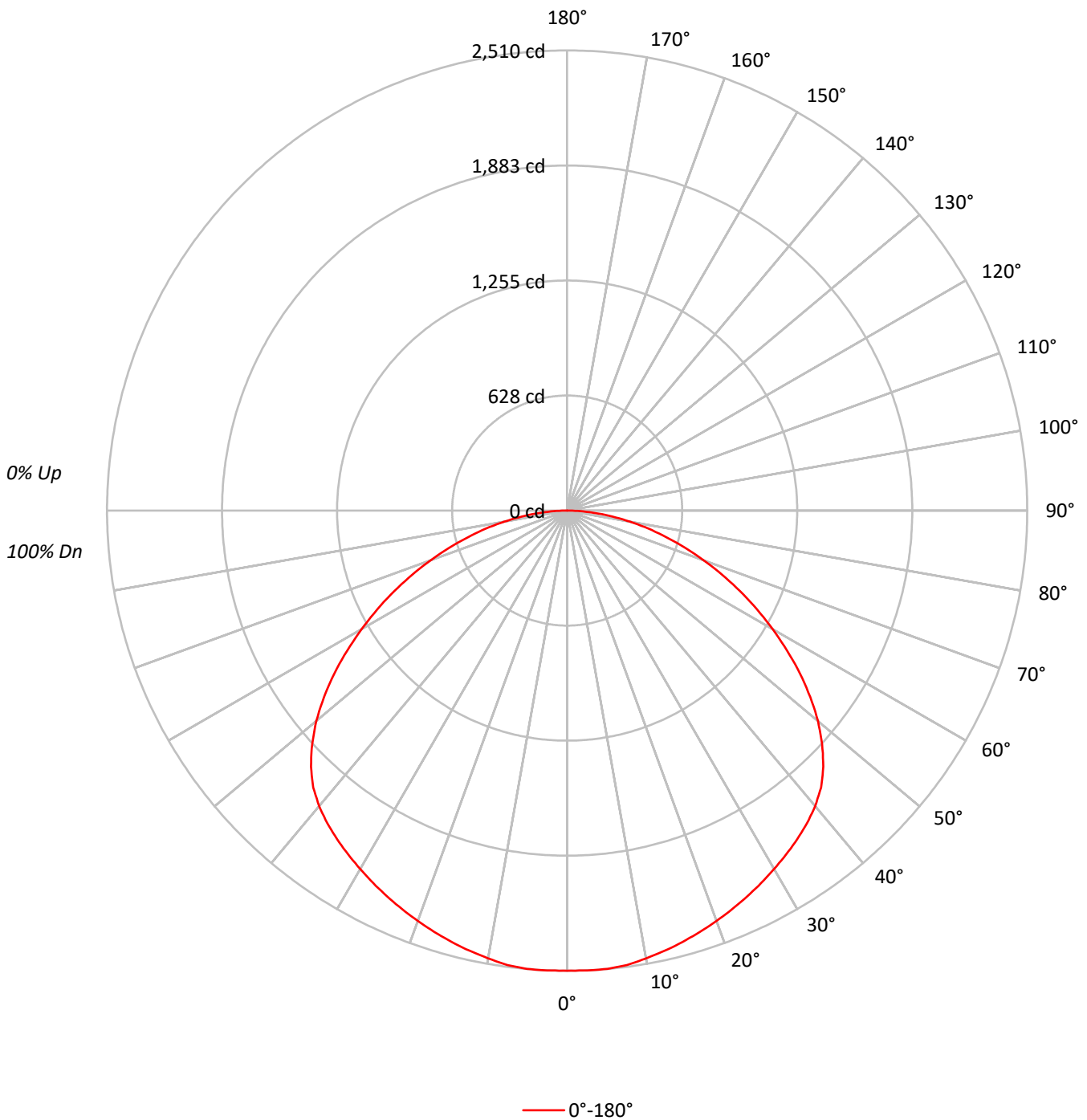
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8074.8 lumens  
Efficiency: N/A  
Efficacy: 84.8 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 (Ain): 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°	12381
5°	12428
10°	12425
15°	12440
20°	12508
25°	12643
30°	12861
35°	13177
40°	13552
45°	13787
50°	13708
55°	13344
60°	12788
65°	12137
70°	11408
75°	10645
80°	9876
85°	8791

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13787 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.6	3.0
10°-20°	688.5	8.5
20°-30°	1072.9	13.3
30°-40°	1371.1	17.0
40°-50°	1518.0	18.8
50°-60°	1383.5	17.1
60°-70°	1030.8	12.8
70°-80°	595.0	7.4
80°-90°	176.4	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°	2000.0	24.8
0°-40°	3371.1	41.7
0°-60°	6272.6	77.7
0°-90°	8074.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8074.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2509	
5°	2509	239
15°	2436	688
25°	2322	1073
35°	2188	1371
45°	1976	1518
55°	1551	1383
65°	1040	1031
75°	558	595
85°	155	176
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2509.4
2.5°	2510.5
5°	2509.4
7.5°	2500.7
10°	2480.0
12.5°	2459.4
15°	2435.5
17.5°	2409.4
20°	2382.3
22.5°	2352.9
25°	2322.5
27.5°	2291.0
30°	2257.4
32.5°	2223.7
35°	2187.8
37.5°	2149.8
40°	2104.2
42.5°	2049.9
45°	1976.0
47.5°	1886.9
50°	1785.9
52.5°	1671.8
55°	1551.3
57.5°	1423.1
60°	1296.0
62.5°	1167.8
65°	1039.6
67.5°	915.8
70°	790.8
72.5°	674.6
75°	558.4
77.5°	454.1
80°	347.6
82.5°	247.7
85°	155.3
87.5°	71.7
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	21.27	22.95	21.63	23.26	23.58	21.27	22.95	21.63	23.26	23.58
	3H	23.02	24.54	23.40	24.86	25.22	23.02	24.54	23.40	24.86	25.22
	4H	23.68	25.12	24.08	25.46	25.84	23.68	25.12	24.08	25.46	25.84
	6H	24.20	25.53	24.61	25.90	26.29	24.20	25.53	24.61	25.90	26.29
	8H	24.38	25.65	24.80	26.04	26.43	24.38	25.65	24.80	26.04	26.43
	12H	24.50	25.72	24.93	26.10	26.53	24.50	25.72	24.93	26.10	26.53
4H	2H	21.89	23.32	22.29	23.67	24.04	21.89	23.32	22.29	23.67	24.04
	3H	23.86	25.07	24.27	25.46	25.86	23.86	25.07	24.27	25.46	25.86
	4H	24.66	25.75	25.09	26.17	26.60	24.66	25.75	25.09	26.17	26.60
	6H	25.32	26.27	25.77	26.71	27.17	25.32	26.27	25.77	26.71	27.17
	8H	25.54	26.44	26.00	26.88	27.34	25.54	26.44	26.00	26.88	27.34
	12H	25.72	26.52	26.20	27.00	27.46	25.72	26.52	26.20	27.00	27.46
8H	4H	24.99	25.88	25.44	26.32	26.79	24.99	25.88	25.44	26.32	26.79
	6H	25.77	26.52	26.26	27.00	27.48	25.77	26.52	26.26	27.00	27.48
	8H	26.07	26.74	26.58	27.25	27.73	26.07	26.74	26.58	27.25	27.73
	12H	26.33	26.92	26.83	27.41	27.97	26.33	26.92	26.83	27.41	27.97
12H	4H	25.03	25.83	25.50	26.31	26.77	25.03	25.83	25.50	26.31	26.77
	6H	25.83	26.51	26.34	27.01	27.49	25.83	26.51	26.34	27.01	27.49
	8H	26.20	26.79	26.71	27.28	27.84	26.20	26.79	26.71	27.28	27.84