

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: P867315

Luminaire Tested: PRLX-2004-L-935-117L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-L-935-117L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

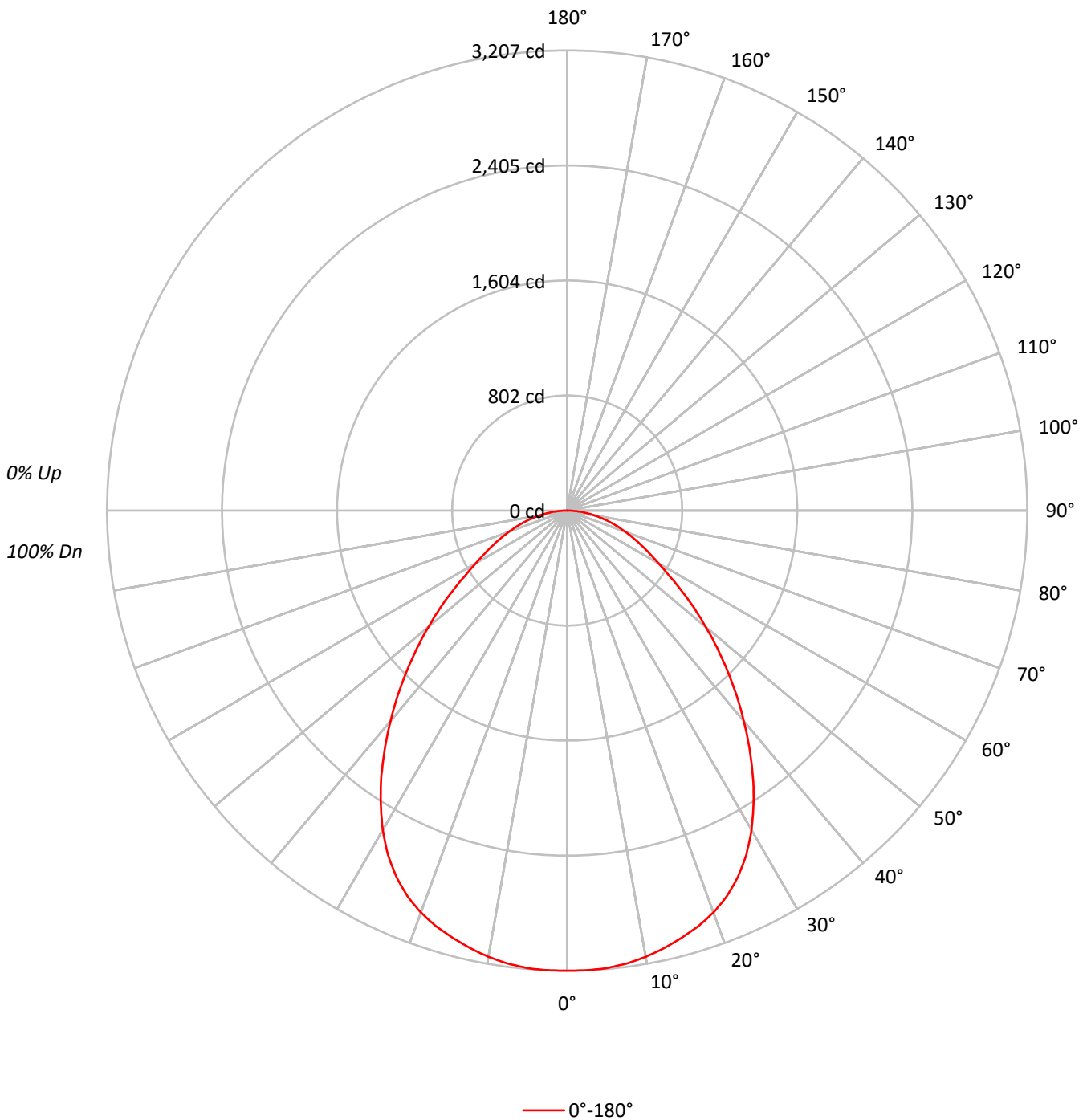
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6962.5 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
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: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P867315

CATALOG NUMBER: PRLX-2004-L-935-117L-G-X-X-WHHR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P867315

CATALOG NUMBER: PRLX-2004-L-935-117L-G-X-X-WHHR-X

**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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31	30

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

	0°
0°	15823
5°	15852
10°	15822
15°	15749
20°	15653
25°	15334
30°	14643
35°	13594
40°	12338
45°	11014
50°	9680
55°	8360
60°	7249
65°	6657
70°	6215
75°	5831
80°	5498
85°	5185

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11014 cd/sqm

TEST NUMBER: P867315

CATALOG NUMBER: PRLX-2004-L-935-117L-G-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.1	4.4
10°-20°	870.1	12.5
20°-30°	1291.2	18.5
30°-40°	1406.3	20.2
40°-50°	1219.3	17.5
50°-60°	876.2	12.6
60°-70°	568.2	8.2
70°-80°	325.2	4.7
80°-90°	101.9	1.5
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°	2465.4	35.4
0°-40°	3871.6	55.6
0°-60°	5967.1	85.7
0°-90°	6962.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6962.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3207	
5°	3201	304
15°	3083	870
25°	2817	1291
35°	2257	1406
45°	1578	1219
55°	972	876
65°	570	568
75°	306	325
85°	92	102
90°	0	

TEST NUMBER: P867315

CATALOG NUMBER: PRLX-2004-L-935-117L-G-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3207.0
2.5°	3207.0
5°	3200.7
7.5°	3184.1
10°	3158.1
12.5°	3122.7
15°	3083.2
17.5°	3037.4
20°	2981.2
22.5°	2909.4
25°	2816.8
27.5°	2704.4
30°	2570.2
32.5°	2419.3
35°	2257.0
37.5°	2086.3
40°	1915.7
42.5°	1747.1
45°	1578.5
47.5°	1419.3
50°	1261.1
52.5°	1115.5
55°	971.9
57.5°	841.8
60°	734.6
62.5°	647.2
65°	570.2
67.5°	497.4
70°	430.8
72.5°	366.3
75°	305.9
77.5°	248.7
80°	193.5
82.5°	141.5
85°	91.6
87.5°	44.7
90°	0.0



TEST NUMBER: P867315  
 CATALOG NUMBER: PRLX-2004-L-935-117L-G-X-X-WHHR-X

**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	18.35	19.85	18.71	20.16	20.47	18.35	19.85	18.71	20.16	20.47
	3H	19.86	21.20	20.24	21.53	21.89	19.86	21.20	20.24	21.53	21.89
	4H	20.46	21.72	20.86	22.07	22.45	20.46	21.72	20.86	22.07	22.45
	6H	20.94	22.10	21.35	22.47	22.86	20.94	22.10	21.35	22.47	22.86
	8H	21.11	22.21	21.53	22.60	23.01	21.11	22.21	21.53	22.60	23.01
	12H	21.23	22.29	21.66	22.67	23.10	21.23	22.29	21.66	22.67	23.10
4H	2H	18.85	20.11	19.25	20.46	20.84	18.85	20.11	19.25	20.46	20.84
	3H	20.60	21.65	21.01	22.05	22.45	20.60	21.65	21.01	22.05	22.45
	4H	21.34	22.28	21.77	22.70	23.13	21.34	22.28	21.77	22.70	23.13
	6H	21.95	22.77	22.41	23.22	23.68	21.95	22.77	22.41	23.22	23.68
	8H	22.17	22.94	22.64	23.39	23.85	22.17	22.94	22.64	23.39	23.85
	12H	22.35	23.04	22.83	23.51	23.99	22.35	23.04	22.83	23.51	23.99
8H	4H	21.61	22.38	22.08	22.82	23.29	21.61	22.38	22.08	22.82	23.29
	6H	22.36	23.00	22.86	23.49	23.97	22.36	23.00	22.86	23.49	23.97
	8H	22.67	23.24	23.18	23.75	24.24	22.67	23.24	23.18	23.75	24.24
	12H	22.93	23.43	23.44	23.93	24.49	22.93	23.43	23.44	23.93	24.49
12H	4H	21.64	22.33	22.12	22.80	23.28	21.64	22.33	22.12	22.80	23.28
	6H	22.42	22.99	22.93	23.50	23.99	22.42	22.99	22.93	23.50	23.99
	8H	22.78	23.29	23.29	23.78	24.35	22.78	23.29	23.29	23.78	24.35