

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: P867051

Luminaire Tested: PRLX-2002-L-935-100L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867051  
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-935-100L-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 6  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

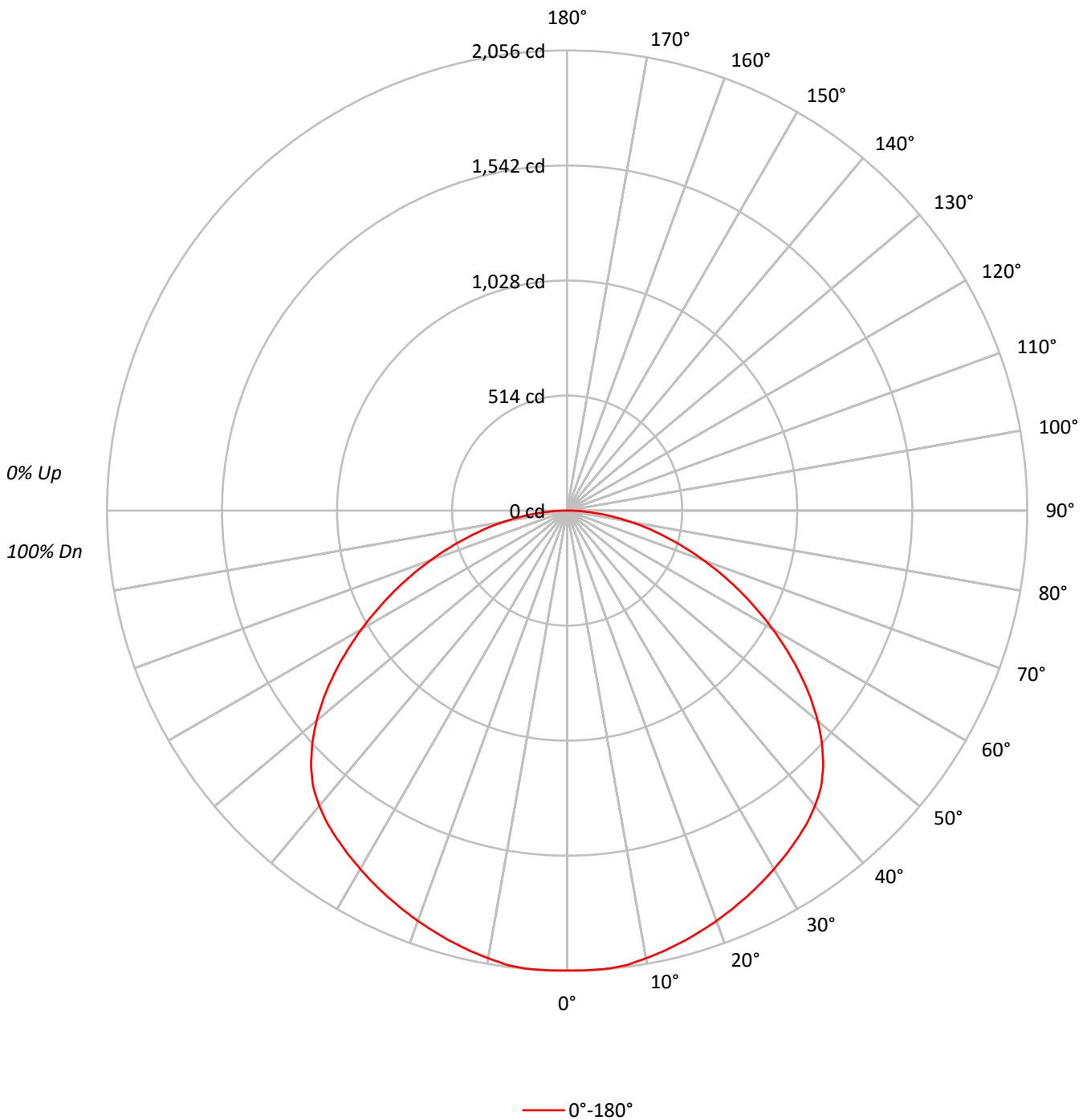
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6612.4 lumens  
Efficiency: N/A  
Efficacy: 83.3 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): 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

TEST NUMBER: P867051

CATALOG NUMBER: PRLX-2002-L-935-100L-G-X-X-WHHR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P867051

CATALOG NUMBER: PRLX-2002-L-935-100L-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	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°	10138
5°	10177
10°	10175
15°	10187
20°	10243
25°	10354
30°	10531
35°	10791
40°	11098
45°	11290
50°	11226
55°	10927
60°	10473
65°	9938
70°	9342
75°	8716
80°	8089
85°	7201

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11290 cd/sqm

TEST NUMBER: P867051

CATALOG NUMBER: PRLX-2002-L-935-100L-G-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.4	3.0
10°-20°	563.8	8.5
20°-30°	878.6	13.3
30°-40°	1122.8	17.0
40°-50°	1243.1	18.8
50°-60°	1132.9	17.1
60°-70°	844.1	12.8
70°-80°	487.2	7.4
80°-90°	144.5	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°	1637.8	24.8
0°-40°	2760.6	41.7
0°-60°	5136.6	77.7
0°-90°	6612.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6612.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2055	
5°	2055	195
15°	1994	564
25°	1902	879
35°	1792	1123
45°	1618	1243
55°	1270	1133
65°	851	844
75°	457	487
85°	127	144
90°	0	

TEST NUMBER: P867051

CATALOG NUMBER: PRLX-2002-L-935-100L-G-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2054.9
2.5°	2055.8
5°	2054.9
7.5°	2047.8
10°	2030.9
12.5°	2014.0
15°	1994.4
17.5°	1973.1
20°	1950.8
22.5°	1926.8
25°	1901.9
27.5°	1876.1
30°	1848.5
32.5°	1821.0
35°	1791.6
37.5°	1760.5
40°	1723.1
42.5°	1678.6
45°	1618.1
47.5°	1545.2
50°	1462.5
52.5°	1369.1
55°	1270.3
57.5°	1165.3
60°	1061.3
62.5°	956.3
65°	851.3
67.5°	749.9
70°	647.6
72.5°	552.4
75°	457.2
77.5°	371.8
80°	284.7
82.5°	202.8
85°	127.2
87.5°	58.7
90°	0.0



TEST NUMBER: P867051  
 CATALOG NUMBER: PRLX-2002-L-935-100L-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	20.58	22.25	20.94	22.57	22.88	20.58	22.25	20.94	22.57	22.88
	3H	22.33	23.84	22.70	24.17	24.53	22.33	23.84	22.70	24.17	24.53
	4H	22.99	24.42	23.39	24.77	25.14	22.99	24.42	23.39	24.77	25.14
	6H	23.51	24.84	23.92	25.20	25.59	23.51	24.84	23.92	25.20	25.59
	8H	23.68	24.95	24.11	25.34	25.74	23.68	24.95	24.11	25.34	25.74
	12H	23.81	25.02	24.23	25.41	25.83	23.81	25.02	24.23	25.41	25.83
4H	2H	21.20	22.63	21.59	22.97	23.35	21.20	22.63	21.59	22.97	23.35
	3H	23.17	24.37	23.58	24.77	25.17	23.17	24.37	23.58	24.77	25.17
	4H	23.97	25.06	24.40	25.47	25.91	23.97	25.06	24.40	25.47	25.91
	6H	24.62	25.58	25.07	26.02	26.47	24.62	25.58	25.07	26.02	26.47
	8H	24.85	25.74	25.31	26.19	26.65	24.85	25.74	25.31	26.19	26.65
	12H	25.02	25.83	25.50	26.30	26.77	25.02	25.83	25.50	26.30	26.77
8H	4H	24.29	25.19	24.75	25.63	26.09	24.29	25.19	24.75	25.63	26.09
	6H	25.07	25.82	25.57	26.31	26.78	25.07	25.82	25.57	26.31	26.78
	8H	25.38	26.05	25.89	26.55	27.04	25.38	26.05	25.89	26.55	27.04
	12H	25.63	26.23	26.14	26.72	27.27	25.63	26.23	26.14	26.72	27.27
12H	4H	24.33	25.14	24.81	25.61	26.08	24.33	25.14	24.81	25.61	26.08
	6H	25.14	25.81	25.65	26.32	26.80	25.14	25.81	25.65	26.32	26.80
	8H	25.51	26.10	26.01	26.59	27.15	25.51	26.10	26.01	26.59	27.15