

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: P867099

Luminaire Tested: PRLX-2002-L-935-67L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867099  
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-935-67L-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

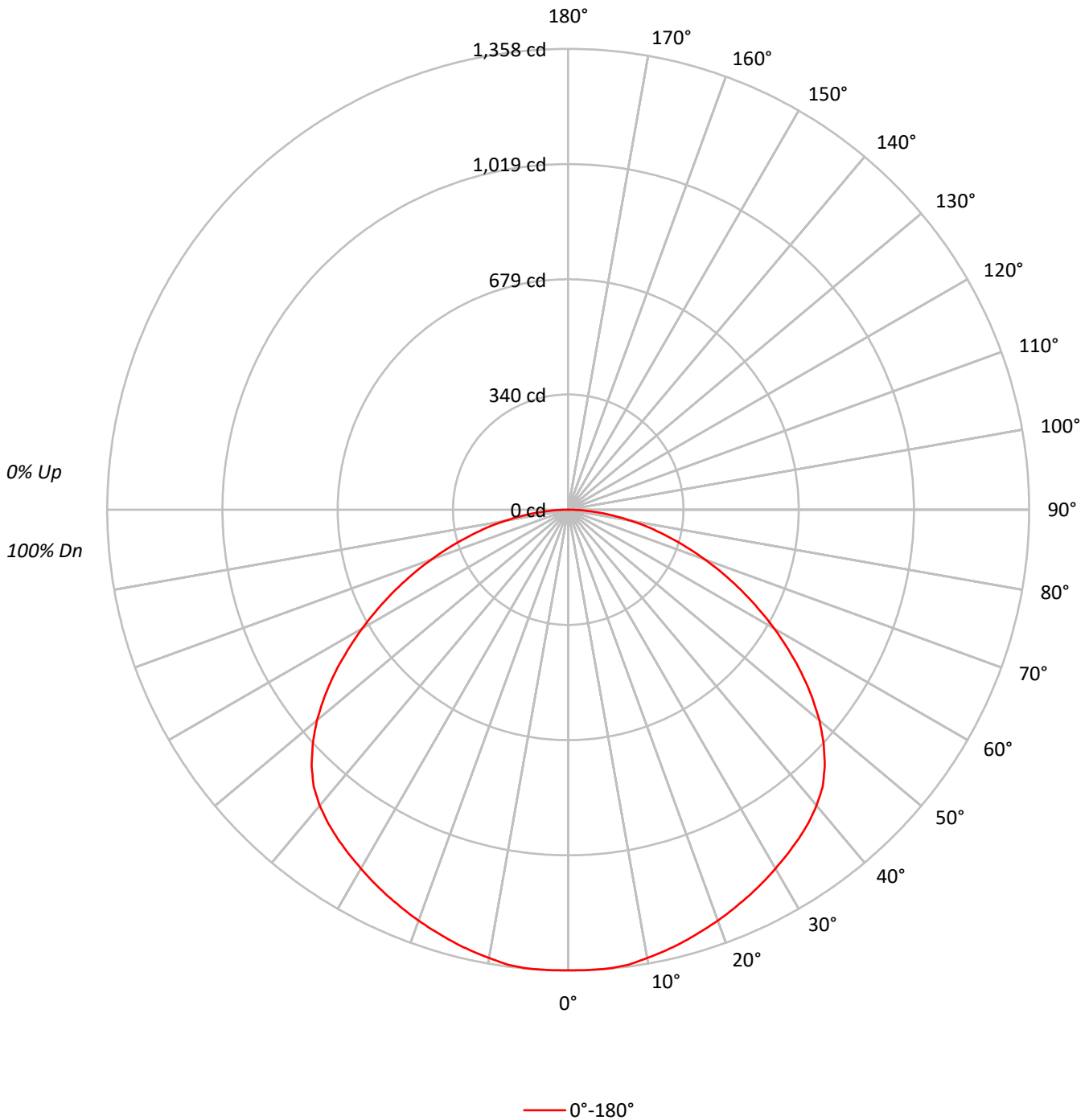
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4368.0 lumens  
Efficiency: N/A  
Efficacy: 86.7 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

TEST NUMBER: P867099

CATALOG NUMBER: PRLX-2002-L-935-67L-G-X-X-WHHR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P867099

CATALOG NUMBER: PRLX-2002-L-935-67L-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°	6697
5°	6723
10°	6721
15°	6730
20°	6766
25°	6840
30°	6957
35°	7128
40°	7331
45°	7458
50°	7415
55°	7218
60°	6917
65°	6566
70°	6171
75°	5757
80°	5342
85°	4755

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7458 cd/sqm

TEST NUMBER: P867099

CATALOG NUMBER: PRLX-2002-L-935-67L-G-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.1	3.0
10°-20°	372.4	8.5
20°-30°	580.4	13.3
30°-40°	741.7	17.0
40°-50°	821.1	18.8
50°-60°	748.4	17.1
60°-70°	557.6	12.8
70°-80°	321.8	7.4
80°-90°	95.4	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°	1081.9	24.8
0°-40°	1823.6	41.7
0°-60°	3393.1	77.7
0°-90°	4368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1357	
5°	1357	129
15°	1318	372
25°	1256	580
35°	1184	742
45°	1069	821
55°	839	748
65°	562	558
75°	302	322
85°	84	95
90°	0	

TEST NUMBER: P867099

CATALOG NUMBER: PRLX-2002-L-935-67L-G-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1357.4
2.5°	1358.0
5°	1357.4
7.5°	1352.7
10°	1341.6
12.5°	1330.4
15°	1317.5
17.5°	1303.4
20°	1288.7
22.5°	1272.8
25°	1256.4
27.5°	1239.3
30°	1221.1
32.5°	1202.9
35°	1183.5
37.5°	1162.9
40°	1138.3
42.5°	1108.9
45°	1068.9
47.5°	1020.7
50°	966.1
52.5°	904.4
55°	839.1
57.5°	769.8
60°	701.0
62.5°	631.7
65°	562.4
67.5°	495.4
70°	427.8
72.5°	364.9
75°	302.0
77.5°	245.6
80°	188.0
82.5°	134.0
85°	84.0
87.5°	38.8
90°	0.0



TEST NUMBER: P867099  
 CATALOG NUMBER: PRLX-2002-L-935-67L-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	19.14	20.81	19.50	21.13	21.44	19.14	20.81	19.50	21.13	21.44
	3H	20.88	22.40	21.26	22.73	23.09	20.88	22.40	21.26	22.73	23.09
	4H	21.55	22.98	21.95	23.33	23.70	21.55	22.98	21.95	23.33	23.70
	6H	22.07	23.40	22.48	23.76	24.15	22.07	23.40	22.48	23.76	24.15
	8H	22.24	23.51	22.67	23.90	24.30	22.24	23.51	22.67	23.90	24.30
	12H	22.37	23.58	22.79	23.97	24.39	22.37	23.58	22.79	23.97	24.39
4H	2H	19.75	21.19	20.15	21.53	21.91	19.75	21.19	20.15	21.53	21.91
	3H	21.73	22.93	22.14	23.33	23.73	21.73	22.93	22.14	23.33	23.73
	4H	22.53	23.62	22.96	24.03	24.46	22.53	23.62	22.96	24.03	24.46
	6H	23.18	24.14	23.63	24.58	25.03	23.18	24.14	23.63	24.58	25.03
	8H	23.41	24.30	23.87	24.74	25.21	23.41	24.30	23.87	24.74	25.21
	12H	23.58	24.39	24.06	24.86	25.33	23.58	24.39	24.06	24.86	25.33
8H	4H	22.85	23.74	23.31	24.19	24.65	22.85	23.74	23.31	24.19	24.65
	6H	23.63	24.38	24.13	24.87	25.34	23.63	24.38	24.13	24.87	25.34
	8H	23.94	24.61	24.45	25.11	25.60	23.94	24.61	24.45	25.11	25.60
	12H	24.19	24.79	24.70	25.28	25.83	24.19	24.79	24.70	25.28	25.83
12H	4H	22.89	23.70	23.37	24.17	24.64	22.89	23.70	23.37	24.17	24.64
	6H	23.70	24.37	24.20	24.87	25.36	23.70	24.37	24.20	24.87	25.36
	8H	24.06	24.66	24.57	25.15	25.71	24.06	24.66	24.57	25.15	25.71