

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: P866074

Luminaire Tested: PRLX-2001-M-935-65L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866074  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-935-65L-L-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

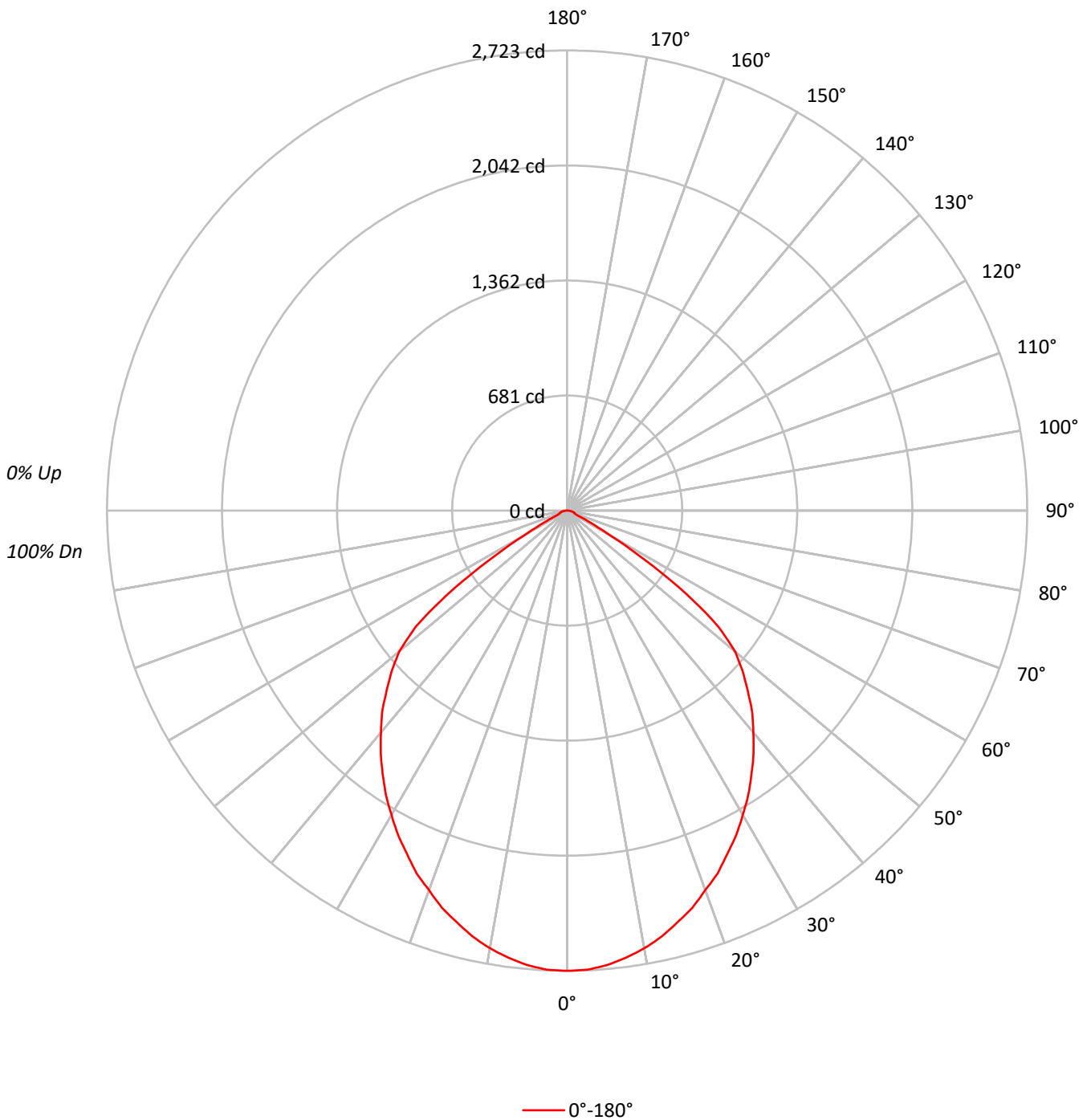
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5261.2 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.6  
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: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P866074

CATALOG NUMBER: PRLX-2001-M-935-65L-L-U-S-X-X-GREY-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866074

CATALOG NUMBER: PRLX-2001-M-935-65L-L-U-S-X-X-GREY-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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

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

	0°
0°	23110
5°	23003
10°	22661
15°	22159
20°	21583
25°	20991
30°	20377
35°	19716
40°	18992
45°	18141
50°	17115
55°	12812
60°	5059
65°	1381
70°	1181
75°	1272
80°	1378
85°	1373

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18141 cd/sqm



TEST NUMBER: P866074

CATALOG NUMBER: PRLX-2001-M-935-65L-L-U-S-X-X-GREY-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.5	4.9
10°-20°	710.8	13.5
20°-30°	1033.4	19.6
30°-40°	1190.1	22.6
40°-50°	1166.4	22.2
50°-60°	741.0	14.1
60°-70°	107.9	2.1
70°-80°	40.7	0.8
80°-90°	15.4	0.3
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°	1999.7	38.0
0°-40°	3189.8	60.6
0°-60°	5097.1	96.9
0°-90°	5261.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5261.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2723	
5°	2700	255
15°	2522	711
25°	2242	1033
35°	1903	1190
45°	1512	1166
55°	866	741
65°	69	108
75°	39	41
85°	14	15
90°	0	

TEST NUMBER: P866074

CATALOG NUMBER: PRLX-2001-M-935-65L-L-U-S-X-X-GREY-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2723.3
2.5°	2719.8
5°	2700.4
7.5°	2668.7
10°	2629.8
12.5°	2582.2
15°	2522.3
17.5°	2464.0
20°	2390.0
22.5°	2324.7
25°	2241.8
27.5°	2166.0
30°	2079.5
32.5°	1994.9
35°	1903.2
37.5°	1811.4
40°	1714.4
42.5°	1620.9
45°	1511.6
47.5°	1409.3
50°	1296.4
52.5°	1128.8
55°	866.0
57.5°	552.1
60°	298.1
62.5°	149.9
65°	68.8
67.5°	49.4
70°	47.6
72.5°	44.1
75°	38.8
77.5°	33.5
80°	28.2
82.5°	21.2
85°	14.1
87.5°	7.1
90°	0.0



TEST NUMBER: P866074  
 CATALOG NUMBER: PRLX-2001-M-935-65L-L-U-S-X-X-GREY-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	18.22	19.62	18.58	19.93	20.25	18.22	19.62	18.58	19.93	20.25
	3H	18.15	19.38	18.53	19.71	20.08	18.15	19.38	18.53	19.71	20.08
	4H	18.12	19.27	18.53	19.62	20.00	18.12	19.27	18.53	19.62	20.00
	6H	18.10	19.15	18.52	19.52	19.92	18.10	19.15	18.52	19.52	19.92
	8H	18.09	19.08	18.52	19.47	19.88	18.09	19.08	18.52	19.47	19.88
	12H	18.07	19.02	18.50	19.40	19.83	18.07	19.02	18.50	19.40	19.83
4H	2H	18.06	19.20	18.46	19.55	19.94	18.06	19.20	18.46	19.55	19.94
	3H	18.02	18.94	18.43	19.35	19.75	18.02	18.94	18.43	19.35	19.75
	4H	18.01	18.83	18.44	19.25	19.69	18.01	18.83	18.44	19.25	19.69
	6H	18.02	18.73	18.48	19.17	19.64	18.02	18.73	18.48	19.17	19.64
	8H	18.01	18.67	18.48	19.12	19.59	18.01	18.67	18.48	19.12	19.59
	12H	18.00	18.59	18.49	19.07	19.55	18.00	18.59	18.49	19.07	19.55
8H	4H	17.92	18.58	18.38	19.03	19.50	17.92	18.58	18.38	19.03	19.50
	6H	17.94	18.48	18.44	18.98	19.46	17.94	18.48	18.44	18.98	19.46
	8H	17.94	18.44	18.46	18.95	19.44	17.94	18.44	18.46	18.95	19.44
	12H	17.95	18.40	18.46	18.89	19.46	17.95	18.40	18.46	18.89	19.46
12H	4H	17.88	18.47	18.36	18.95	19.42	17.88	18.47	18.36	18.95	19.42
	6H	17.89	18.39	18.41	18.90	19.39	17.89	18.39	18.41	18.90	19.39
	8H	17.92	18.37	18.43	18.86	19.43	17.92	18.37	18.43	18.86	19.43