

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: P866068

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-935-65L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

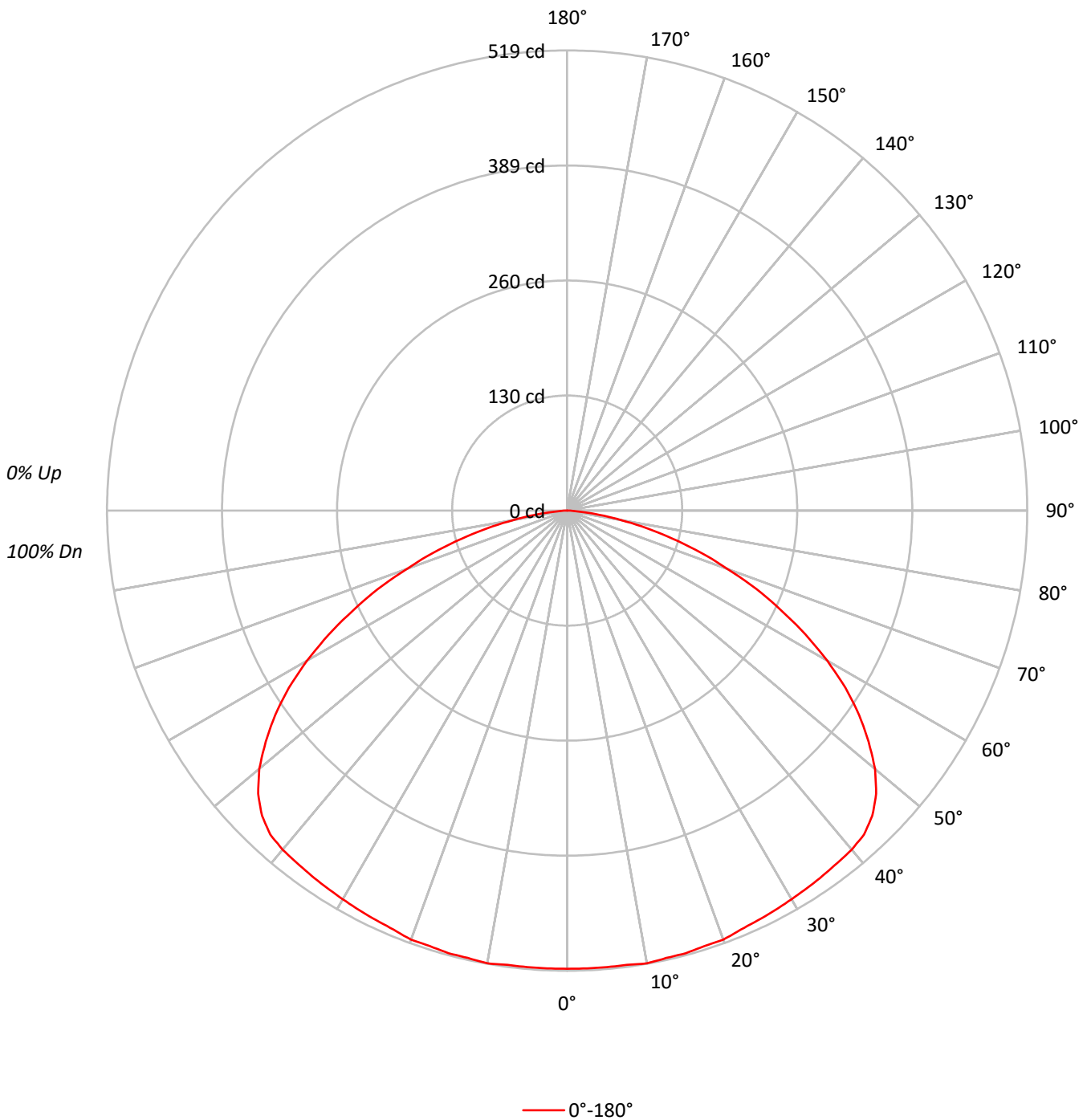
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1897.8 lumens  
Efficiency: N/A  
Efficacy: 32.4 lumens/watt  
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.6  
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: P866068

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

### Luminous Intensity Polar Plot





TEST NUMBER: P866068

CATALOG NUMBER: PRLX-2001-M-935-65L-G-U-S-X-X-BLAK-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	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90	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	76	69	62	73	67	61		71	65	60		68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44		55	49	43		54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29		41	34	29		40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

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

	0°
0°	4386
5°	4402
10°	4469
15°	4540
20°	4651
25°	4772
30°	4960
35°	5208
40°	5530
45°	5842
50°	5984
55°	5951
60°	5748
65°	5347
70°	4771
75°	4049
80°	3015
85°	1548

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 5984 cd/sqm

TEST NUMBER: P866068

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.4	2.6
10°-20°	146.3	7.7
20°-30°	235.9	12.4
30°-40°	315.7	16.6
40°-50°	373.4	19.7
50°-60°	357.7	18.8
60°-70°	263.7	13.9
70°-80°	132.0	7.0
80°-90°	23.7	1.2
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°	431.6	22.7
0°-40°	747.3	39.4
0°-60°	1478.4	77.9
0°-90°	1897.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1897.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	517	
5°	517	49
15°	517	146
25°	510	236
35°	503	316
45°	487	373
55°	402	358
65°	266	264
75°	124	132
85°	16	24
90°	0	

TEST NUMBER: P866068

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

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	516.8
2.5°	516.8
5°	516.8
7.5°	516.8
10°	518.6
12.5°	516.8
15°	516.8
17.5°	515.0
20°	515.0
22.5°	511.5
25°	509.7
27.5°	508.0
30°	506.2
32.5°	504.5
35°	502.7
37.5°	500.9
40°	499.2
42.5°	495.6
45°	486.8
47.5°	472.7
50°	453.3
52.5°	428.6
55°	402.2
57.5°	372.2
60°	338.7
62.5°	303.4
65°	266.3
67.5°	231.1
70°	192.3
72.5°	158.7
75°	123.5
77.5°	91.7
80°	61.7
82.5°	37.0
85°	15.9
87.5°	3.5
90°	0.0



TEST NUMBER: P866068  
 CATALOG NUMBER: PRLX-2001-M-935-65L-G-U-S-X-X-BLAK-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	18.84	20.54	19.20	20.85	21.16	18.84	20.54	19.20	20.85	21.16
	3H	20.45	21.99	20.83	22.31	22.67	20.45	21.99	20.83	22.31	22.67
	4H	20.97	22.42	21.37	22.77	23.14	20.97	22.42	21.37	22.77	23.14
	6H	21.27	22.62	21.68	22.98	23.37	21.27	22.62	21.68	22.98	23.37
	8H	21.33	22.62	21.75	23.00	23.40	21.33	22.62	21.75	23.00	23.40
	12H	21.35	22.58	21.78	22.96	23.39	21.35	22.58	21.78	22.96	23.39
4H	2H	19.44	20.89	19.83	21.23	21.61	19.44	20.89	19.83	21.23	21.61
	3H	21.25	22.46	21.66	22.86	23.26	21.25	22.46	21.66	22.86	23.26
	4H	21.87	22.97	22.30	23.38	23.82	21.87	22.97	22.30	23.38	23.82
	6H	22.27	23.23	22.72	23.66	24.12	22.27	23.23	22.72	23.66	24.12
	8H	22.35	23.25	22.81	23.69	24.15	22.35	23.25	22.81	23.69	24.15
	12H	22.39	23.20	22.87	23.67	24.14	22.39	23.20	22.87	23.67	24.14
8H	4H	22.11	23.01	22.57	23.45	23.91	22.11	23.01	22.57	23.45	23.91
	6H	22.58	23.32	23.07	23.81	24.28	22.58	23.32	23.07	23.81	24.28
	8H	22.70	23.36	23.21	23.87	24.35	22.70	23.36	23.21	23.87	24.35
	12H	22.76	23.35	23.27	23.84	24.40	22.76	23.35	23.27	23.84	24.40
12H	4H	22.13	22.93	22.60	23.41	23.87	22.13	22.93	22.60	23.41	23.87
	6H	22.59	23.26	23.10	23.77	24.25	22.59	23.26	23.10	23.77	24.25
	8H	22.75	23.34	23.26	23.83	24.39	22.75	23.34	23.26	23.83	24.39