

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: P865690

Luminaire Tested: PRLX-2002-S-935-25L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-S-935-25L-L-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

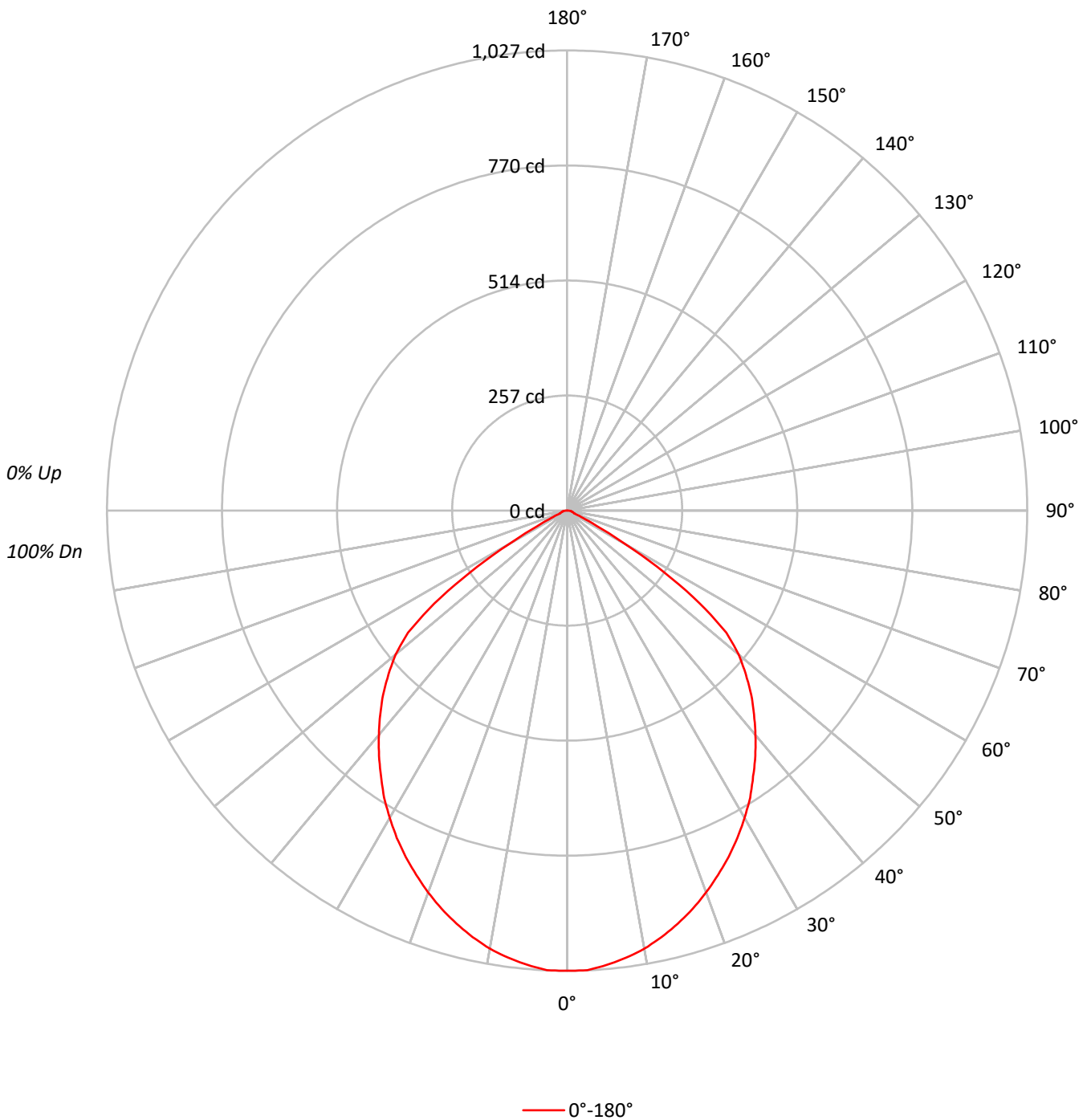
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2039.3 lumens  
Efficiency: N/A  
Efficacy: 70.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.1  
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: P865690

CATALOG NUMBER: PRLX-2002-S-935-25L-L-U-S-X-X-GREY-X

### Luminous Intensity Polar Plot





TEST NUMBER: P865690

CATALOG NUMBER: PRLX-2002-S-935-25L-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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54
6	76	65	57	51	75	64	56	51	62	55	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

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

	0°
0°	19290
5°	19194
10°	18941
15°	18562
20°	18131
25°	17673
30°	17172
35°	16598
40°	16029
45°	15442
50°	14609
55°	11852
60°	5609
65°	1711
70°	868
75°	987
80°	974
85°	1466

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15442 cd/sqm

TEST NUMBER: P865690

CATALOG NUMBER: PRLX-2002-S-935-25L-L-U-S-X-X-GREY-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.4	4.7
10°-20°	268.9	13.2
20°-30°	392.5	19.2
30°-40°	453.2	22.2
40°-50°	446.8	21.9
50°-60°	309.2	15.2
60°-70°	52.8	2.6
70°-80°	13.4	0.7
80°-90°	6.2	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°	757.7	37.2
0°-40°	1210.9	59.4
0°-60°	1966.9	96.5
0°-90°	2039.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2039.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1027	
5°	1018	96
15°	954	269
25°	853	392
35°	724	453
45°	581	447
55°	362	309
65°	38	53
75°	14	13
85°	7	6
90°	0	

TEST NUMBER: P865690

CATALOG NUMBER: PRLX-2002-S-935-25L-L-U-S-X-X-GREY-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1026.9
2.5°	1026.9
5°	1017.9
7.5°	1006.6
10°	993.0
12.5°	974.9
15°	954.5
17.5°	931.9
20°	907.0
22.5°	879.9
25°	852.7
27.5°	823.3
30°	791.7
32.5°	760.0
35°	723.8
37.5°	689.9
40°	653.7
42.5°	617.5
45°	581.3
47.5°	540.6
50°	499.9
52.5°	447.9
55°	361.9
57.5°	257.9
60°	149.3
62.5°	76.9
65°	38.5
67.5°	18.1
70°	15.8
72.5°	13.6
75°	13.6
77.5°	11.3
80°	9.0
82.5°	9.0
85°	6.8
87.5°	2.3
90°	0.0



TEST NUMBER: P865690  
 CATALOG NUMBER: PRLX-2002-S-935-25L-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	18.98	20.40	19.35	20.71	21.03	18.98	20.40	19.35	20.71	21.03
	3H	18.89	20.14	19.27	20.47	20.83	18.89	20.14	19.27	20.47	20.83
	4H	18.85	20.01	19.25	20.36	20.74	18.85	20.01	19.25	20.36	20.74
	6H	18.80	19.87	19.21	20.23	20.63	18.80	19.87	19.21	20.23	20.63
	8H	18.78	19.79	19.21	20.18	20.58	18.78	19.79	19.21	20.18	20.58
	12H	18.76	19.72	19.19	20.11	20.54	18.76	19.72	19.19	20.11	20.54
4H	2H	18.84	20.00	19.24	20.35	20.73	18.84	20.00	19.24	20.35	20.73
	3H	18.76	19.70	19.18	20.10	20.51	18.76	19.70	19.18	20.10	20.51
	4H	18.72	19.55	19.16	19.97	20.41	18.72	19.55	19.16	19.97	20.41
	6H	18.69	19.41	19.15	19.85	20.32	18.69	19.41	19.15	19.85	20.32
	8H	18.67	19.34	19.14	19.79	20.26	18.67	19.34	19.14	19.79	20.26
	12H	18.66	19.26	19.15	19.74	20.21	18.66	19.26	19.15	19.74	20.21
8H	4H	18.61	19.28	19.08	19.73	20.20	18.61	19.28	19.08	19.73	20.20
	6H	18.57	19.13	19.07	19.62	20.10	18.57	19.13	19.07	19.62	20.10
	8H	18.56	19.06	19.08	19.58	20.07	18.56	19.06	19.08	19.58	20.07
	12H	18.57	19.03	19.09	19.52	20.09	18.57	19.03	19.09	19.52	20.09
12H	4H	18.57	19.17	19.06	19.65	20.12	18.57	19.17	19.06	19.65	20.12
	6H	18.52	19.02	19.04	19.54	20.03	18.52	19.02	19.04	19.54	20.03
	8H	18.53	18.99	19.05	19.48	20.05	18.53	18.99	19.05	19.48	20.05