

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: P865570

Luminaire Tested: PRLX-2001-S-940-25L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-S-940-25L-L-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

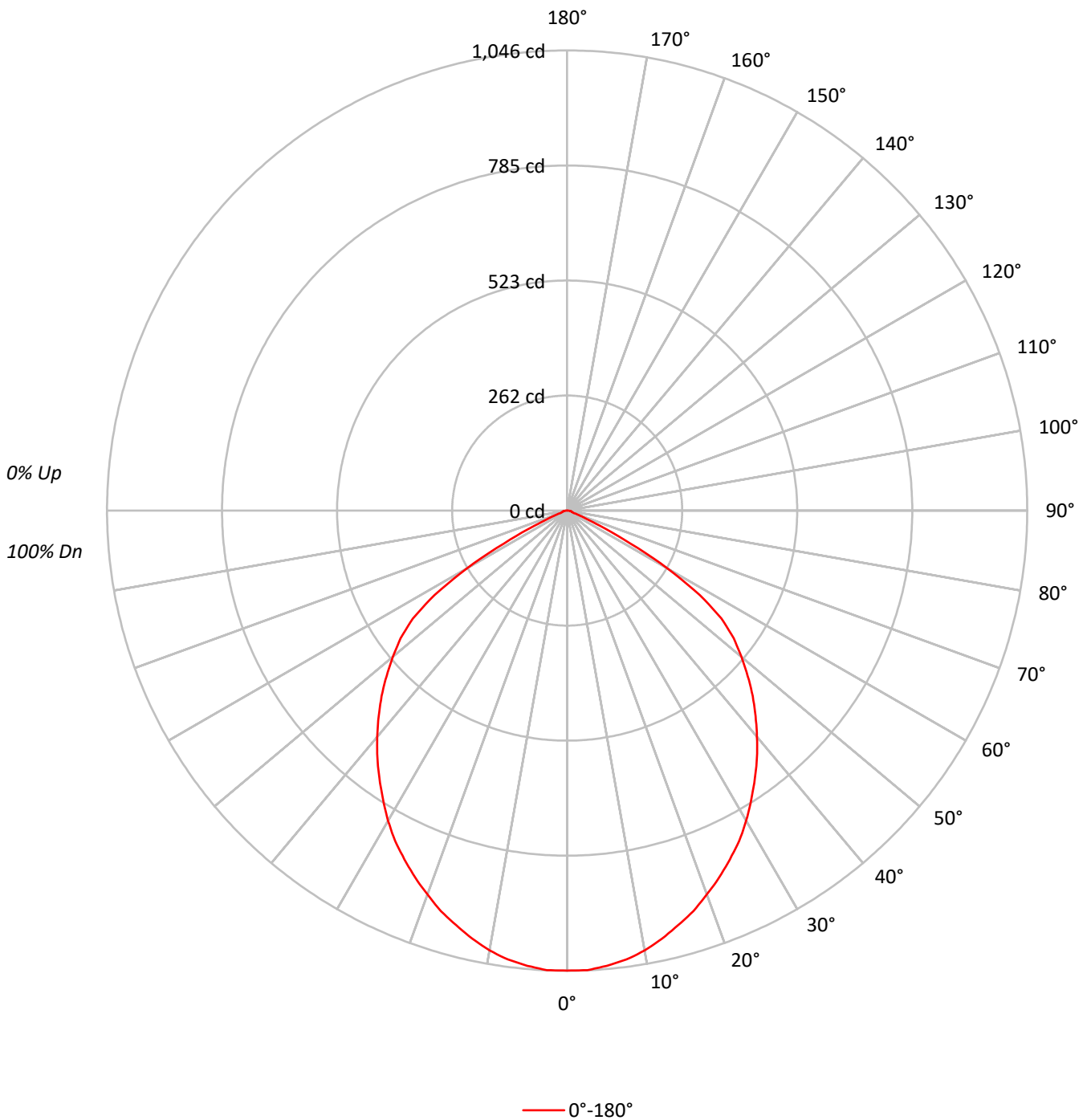
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2190.3 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28  
Luminous Opening: Circular (Dia: 0.92' 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: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P865570

CATALOG NUMBER: PRLX-2001-S-940-25L-L-U-S-X-X-GREY-X

### Luminous Intensity Polar Plot





TEST NUMBER: P865570

CATALOG NUMBER: PRLX-2001-S-940-25L-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	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

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

	0°
0°	17055
5°	17006
10°	16815
15°	16472
20°	16119
25°	15745
30°	15332
35°	14812
40°	14295
45°	13759
50°	13118
55°	12173
60°	8622
65°	3161
70°	782
75°	737
80°	883
85°	880

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13759 cd/sqm

TEST NUMBER: P865570

CATALOG NUMBER: PRLX-2001-S-940-25L-L-U-S-X-X-GREY-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.4	4.5
10°-20°	275.0	12.6
20°-30°	403.0	18.4
30°-40°	465.4	21.2
40°-50°	459.5	21.0
50°-60°	368.8	16.8
60°-70°	102.9	4.7
70°-80°	12.1	0.6
80°-90°	5.1	0.2
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°	776.5	35.5
0°-40°	1241.9	56.7
0°-60°	2070.2	94.5
0°-90°	2190.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2190.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1046	
5°	1039	98
15°	976	275
25°	875	403
35°	744	465
45°	596	459
55°	428	369
65°	82	103
75°	12	12
85°	5	5
90°	0	

TEST NUMBER: P865570

CATALOG NUMBER: PRLX-2001-S-940-25L-L-U-S-X-X-GREY-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1045.7
2.5°	1045.7
5°	1038.7
7.5°	1029.3
10°	1015.3
12.5°	996.6
15°	975.5
17.5°	954.5
20°	928.7
22.5°	903.0
25°	874.9
27.5°	846.9
30°	814.1
32.5°	779.0
35°	743.9
37.5°	708.8
40°	671.4
42.5°	634.0
45°	596.5
47.5°	556.8
50°	517.0
52.5°	477.2
55°	428.1
57.5°	357.9
60°	264.3
62.5°	161.4
65°	81.9
67.5°	37.4
70°	16.4
72.5°	11.7
75°	11.7
77.5°	9.4
80°	9.4
82.5°	7.0
85°	4.7
87.5°	2.3
90°	0.0



TEST NUMBER: P865570  
 CATALOG NUMBER: PRLX-2001-S-940-25L-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	20.56	22.01	20.92	22.33	22.64	20.56	22.01	20.92	22.33	22.64
	3H	20.48	21.77	20.86	22.10	22.46	20.48	21.77	20.86	22.10	22.46
	4H	20.42	21.62	20.83	21.97	22.35	20.42	21.62	20.83	21.97	22.35
	6H	20.37	21.47	20.78	21.83	22.23	20.37	21.47	20.78	21.83	22.23
	8H	20.33	21.38	20.76	21.77	22.17	20.33	21.38	20.76	21.77	22.17
	12H	20.30	21.30	20.73	21.68	22.11	20.30	21.30	20.73	21.68	22.11
4H	2H	20.48	21.68	20.88	22.03	22.41	20.48	21.68	20.88	22.03	22.41
	3H	20.41	21.38	20.82	21.78	22.19	20.41	21.38	20.82	21.78	22.19
	4H	20.35	21.21	20.78	21.63	22.07	20.35	21.21	20.78	21.63	22.07
	6H	20.30	21.04	20.76	21.49	21.95	20.30	21.04	20.76	21.49	21.95
	8H	20.26	20.95	20.72	21.40	21.87	20.26	20.95	20.72	21.40	21.87
	12H	20.23	20.84	20.71	21.32	21.80	20.23	20.84	20.71	21.32	21.80
8H	4H	20.23	20.93	20.70	21.37	21.84	20.23	20.93	20.70	21.37	21.84
	6H	20.17	20.74	20.67	21.23	21.71	20.17	20.74	20.67	21.23	21.71
	8H	20.12	20.64	20.64	21.15	21.64	20.12	20.64	20.64	21.15	21.64
	12H	20.10	20.56	20.61	21.05	21.62	20.10	20.56	20.61	21.05	21.62
12H	4H	20.19	20.81	20.68	21.29	21.77	20.19	20.81	20.68	21.29	21.77
	6H	20.11	20.63	20.63	21.14	21.63	20.11	20.63	20.63	21.14	21.63
	8H	20.09	20.55	20.60	21.04	21.61	20.09	20.55	20.60	21.04	21.61