

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: P866854

Luminaire Tested: PRLX-2001-L-940-100L-L-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-940-100L-L-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

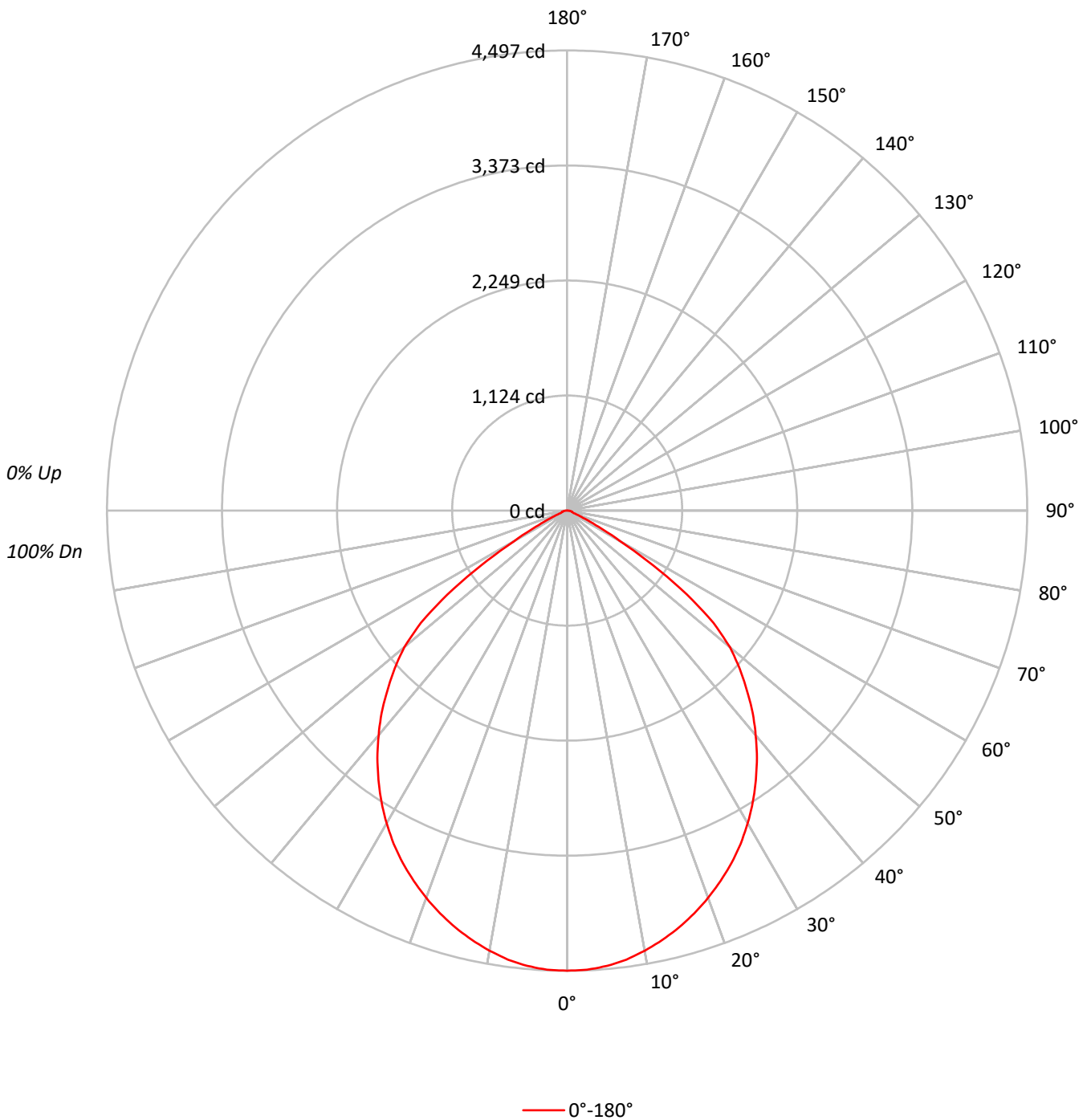
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8831.9 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 79.4  
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: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P866854

CATALOG NUMBER: PRLX-2001-L-940-100L-L-X-X-GREY-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866854

CATALOG NUMBER: PRLX-2001-L-940-100L-L-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	84	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	69
4	89	79	72	66	87	78	71	66	75	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	54
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	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33

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

	0°
0°	24583
5°	24514
10°	24246
15°	23879
20°	23433
25°	22923
30°	22278
35°	21458
40°	20460
45°	19214
50°	17653
55°	13631
60°	6590
65°	2486
70°	980
75°	1079
80°	1228
85°	1399

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19214 cd/sqm

TEST NUMBER: P866854

CATALOG NUMBER: PRLX-2001-L-940-100L-L-X-X-GREY-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.2	4.8
10°-20°	1188.7	13.5
20°-30°	1748.4	19.8
30°-40°	2008.0	22.7
40°-50°	1914.1	21.7
50°-60°	1235.7	14.0
60°-70°	237.4	2.7
70°-80°	53.5	0.6
80°-90°	23.0	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°	3360.3	38.0
0°-40°	5368.3	60.8
0°-60°	8518.0	96.4
0°-90°	8831.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8831.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4497	
5°	4467	423
15°	4219	1189
25°	3800	1748
35°	3215	2008
45°	2485	1914
55°	1430	1236
65°	192	237
75°	51	53
85°	22	23
90°	0	

TEST NUMBER: P866854

CATALOG NUMBER: PRLX-2001-L-940-100L-L-X-X-GREY-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4496.8
2.5°	4491.2
5°	4467.0
7.5°	4426.2
10°	4367.7
12.5°	4298.0
15°	4219.1
17.5°	4128.1
20°	4027.8
22.5°	3917.3
25°	3800.2
27.5°	3671.1
30°	3529.1
32.5°	3376.7
35°	3215.2
37.5°	3047.1
40°	2866.9
42.5°	2685.8
45°	2485.2
47.5°	2287.4
50°	2075.6
52.5°	1801.7
55°	1430.2
57.5°	996.5
60°	602.7
62.5°	345.5
65°	192.2
67.5°	100.3
70°	61.3
72.5°	55.7
75°	51.1
77.5°	45.5
80°	39.0
82.5°	31.6
85°	22.3
87.5°	11.1
90°	0.0



TEST NUMBER: P866854  
 CATALOG NUMBER: PRLX-2001-L-940-100L-L-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	19.03	20.43	19.39	20.74	21.06	19.03	20.43	19.39	20.74	21.06
	3H	18.95	20.19	19.33	20.52	20.88	18.95	20.19	19.33	20.52	20.88
	4H	18.91	20.05	19.31	20.40	20.79	18.91	20.05	19.31	20.40	20.79
	6H	18.86	19.92	19.28	20.28	20.68	18.86	19.92	19.28	20.28	20.68
	8H	18.84	19.84	19.27	20.23	20.63	18.84	19.84	19.27	20.23	20.63
	12H	18.81	19.77	19.25	20.15	20.58	18.81	19.77	19.25	20.15	20.58
4H	2H	18.91	20.06	19.31	20.41	20.79	18.91	20.06	19.31	20.41	20.79
	3H	18.85	19.77	19.26	20.18	20.58	18.85	19.77	19.26	20.18	20.58
	4H	18.80	19.63	19.24	20.04	20.49	18.80	19.63	19.24	20.04	20.49
	6H	18.78	19.49	19.24	19.93	20.40	18.78	19.49	19.24	19.93	20.40
	8H	18.75	19.41	19.22	19.86	20.33	18.75	19.41	19.22	19.86	20.33
	12H	18.73	19.32	19.22	19.80	20.28	18.73	19.32	19.22	19.80	20.28
8H	4H	18.69	19.36	19.16	19.80	20.27	18.69	19.36	19.16	19.80	20.27
	6H	18.66	19.21	19.16	19.70	20.18	18.66	19.21	19.16	19.70	20.18
	8H	18.64	19.14	19.16	19.65	20.14	18.64	19.14	19.16	19.65	20.14
	12H	18.64	19.09	19.16	19.58	20.15	18.64	19.09	19.16	19.58	20.15
12H	4H	18.65	19.24	19.14	19.72	20.20	18.65	19.24	19.14	19.72	20.20
	6H	18.61	19.10	19.13	19.62	20.11	18.61	19.10	19.13	19.62	20.11
	8H	18.61	19.06	19.13	19.55	20.12	18.61	19.06	19.13	19.55	20.12