

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: P866119

Luminaire Tested: PRLX-2001-M-940-45L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-940-45L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

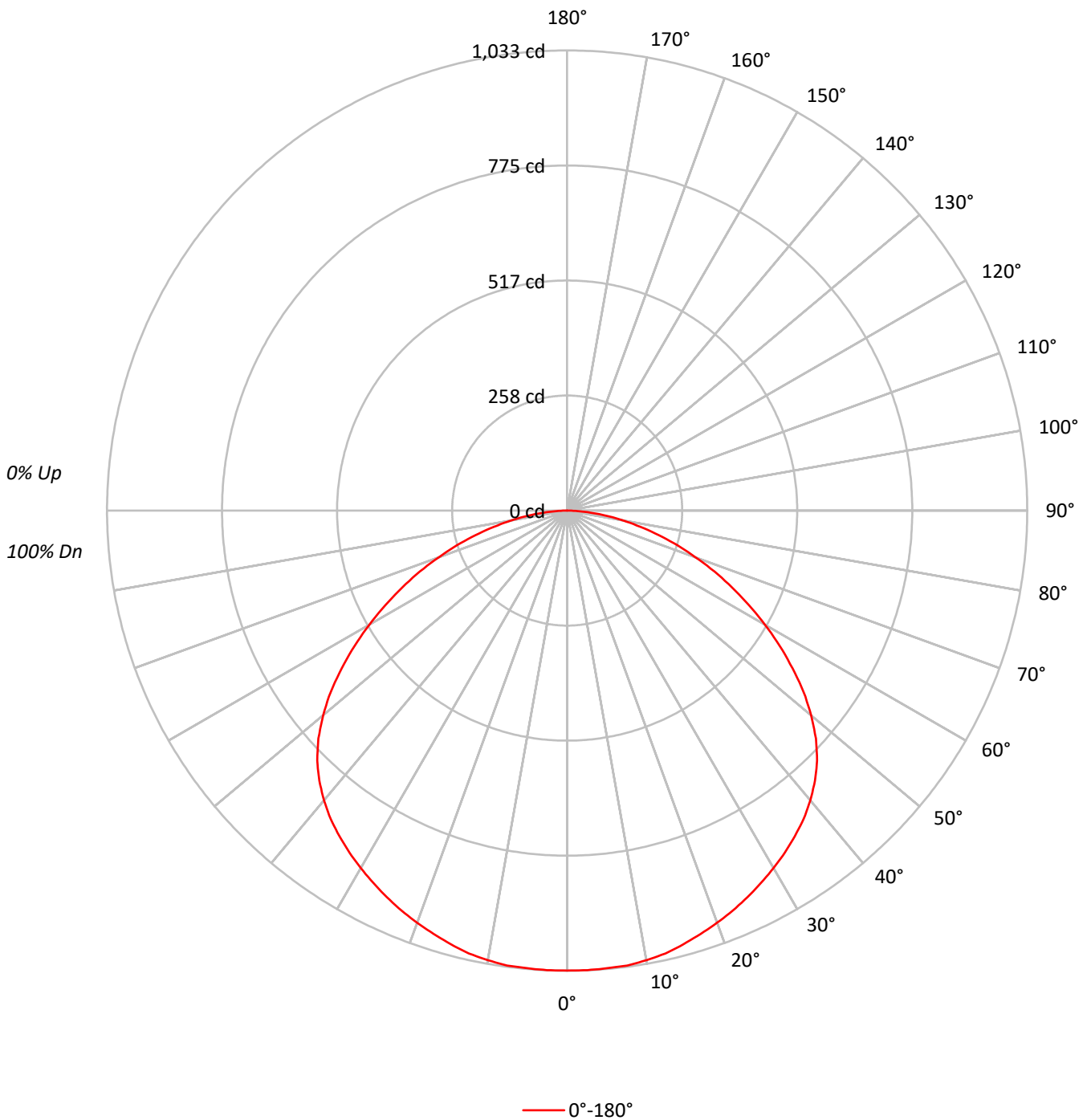
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3237.4 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.8  
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: P866119

CATALOG NUMBER: PRLX-2001-M-940-45L-G-U-S-X-X-WHHR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866119

CATALOG NUMBER: PRLX-2001-M-940-45L-G-U-S-X-X-WHHR-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	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

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

	0°
0°	8763
5°	8785
10°	8831
15°	8857
20°	8893
25°	8967
30°	9081
35°	9239
40°	9406
45°	9523
50°	9435
55°	9140
60°	8708
65°	8201
70°	7600
75°	6990
80°	6192
85°	5034

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9523 cd/sqm

TEST NUMBER: P866119

CATALOG NUMBER: PRLX-2001-M-940-45L-G-U-S-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.3	3.0
10°-20°	284.8	8.8
20°-30°	442.1	13.7
30°-40°	558.5	17.3
40°-50°	609.6	18.8
50°-60°	551.6	17.0
60°-70°	404.7	12.5
70°-80°	226.1	7.0
80°-90°	61.5	1.9
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
<hr/>		
0°-30°	825.2	25.5
0°-40°	1383.7	42.7
0°-60°	2545.0	78.6
0°-90°	3237.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3237.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1033	
5°	1031	98
15°	1008	285
25°	958	442
35°	892	558
45°	794	610
55°	618	552
65°	408	405
75°	213	226
85°	52	62
90°	0	

TEST NUMBER: P866119

CATALOG NUMBER: PRLX-2001-M-940-45L-G-U-S-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1032.6
2.5°	1032.6
5°	1031.3
7.5°	1030.1
10°	1024.9
12.5°	1018.4
15°	1008.1
17.5°	996.4
20°	984.8
22.5°	971.9
25°	957.7
27.5°	942.2
30°	926.7
32.5°	909.9
35°	891.8
37.5°	872.4
40°	849.1
42.5°	823.3
45°	793.5
47.5°	757.4
50°	714.7
52.5°	669.5
55°	617.8
57.5°	566.1
60°	513.1
62.5°	460.1
65°	408.4
67.5°	358.0
70°	306.3
72.5°	259.8
75°	213.2
77.5°	168.0
80°	126.7
82.5°	87.9
85°	51.7
87.5°	23.3
90°	0.0



TEST NUMBER: P866119  
 CATALOG NUMBER: PRLX-2001-M-940-45L-G-U-S-X-X-WHHR-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	19.94	21.60	20.30	21.92	22.23	19.94	21.60	20.30	21.92	22.23
	3H	21.63	23.14	22.01	23.46	23.82	21.63	23.14	22.01	23.46	23.82
	4H	22.26	23.68	22.66	24.02	24.40	22.26	23.68	22.66	24.02	24.40
	6H	22.71	24.03	23.12	24.39	24.78	22.71	24.03	23.12	24.39	24.78
	8H	22.86	24.11	23.28	24.50	24.90	22.86	24.11	23.28	24.50	24.90
	12H	22.95	24.15	23.38	24.53	24.96	22.95	24.15	23.38	24.53	24.96
4H	2H	20.54	21.96	20.94	22.31	22.68	20.54	21.96	20.94	22.31	22.68
	3H	22.45	23.64	22.86	24.04	24.44	22.45	23.64	22.86	24.04	24.44
	4H	23.21	24.28	23.64	24.70	25.13	23.21	24.28	23.64	24.70	25.13
	6H	23.79	24.73	24.24	25.17	25.62	23.79	24.73	24.24	25.17	25.62
	8H	23.98	24.86	24.44	25.30	25.77	23.98	24.86	24.44	25.30	25.77
	12H	24.11	24.90	24.59	25.38	25.85	24.11	24.90	24.59	25.38	25.85
8H	4H	23.50	24.39	23.96	24.83	25.29	23.50	24.39	23.96	24.83	25.29
	6H	24.20	24.93	24.69	25.42	25.90	24.20	24.93	24.69	25.42	25.90
	8H	24.46	25.12	24.97	25.62	26.11	24.46	25.12	24.97	25.62	26.11
	12H	24.66	25.24	25.16	25.73	26.29	24.66	25.24	25.16	25.73	26.29
12H	4H	23.54	24.33	24.02	24.80	25.27	23.54	24.33	24.02	24.80	25.27
	6H	24.25	24.91	24.76	25.42	25.90	24.25	24.91	24.76	25.42	25.90
	8H	24.57	25.15	25.07	25.64	26.20	24.57	25.15	25.07	25.64	26.20