

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: P866139

Luminaire Tested: PRLX-2001-M-940-65L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-940-65L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

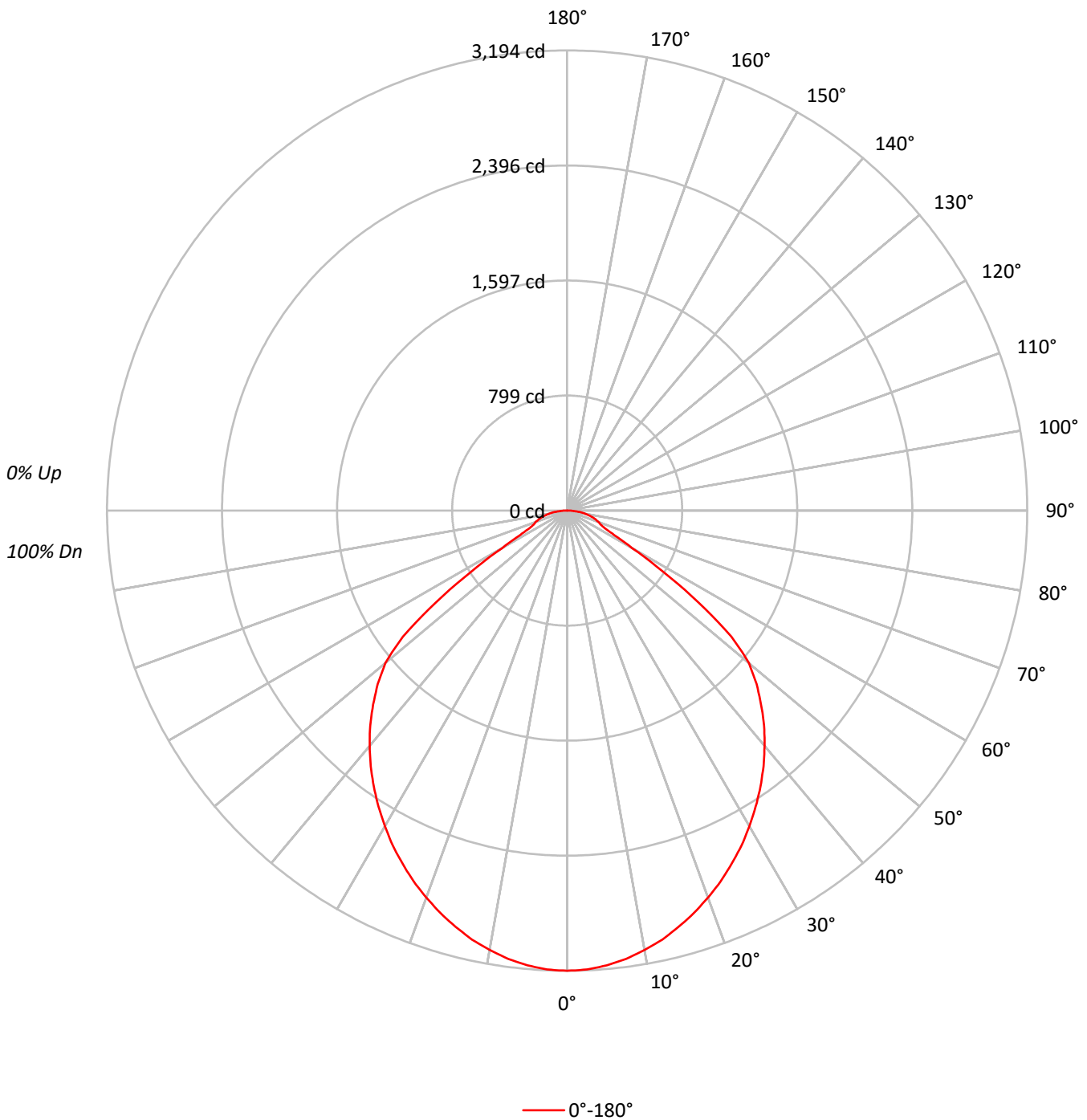
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6879.6 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.6  
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: P866139

CATALOG NUMBER: PRLX-2001-M-940-65L-L-U-S-X-X-WHHR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866139

CATALOG NUMBER: PRLX-2001-M-940-65L-L-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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	44	39	64	52	44	39	50	44	39	49	43	38	48	42	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

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

	0°
0°	27105
5°	26986
10°	26687
15°	26274
20°	25810
25°	25310
30°	24786
35°	24232
40°	23617
45°	22852
50°	21737
55°	16461
60°	8839
65°	5699
70°	5744
75°	6059
80°	6294
85°	6358

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22852 cd/sqm

TEST NUMBER: P866139

CATALOG NUMBER: PRLX-2001-M-940-65L-L-U-S-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.2	4.4
10°-20°	843.2	12.3
20°-30°	1245.7	18.1
30°-40°	1462.7	21.3
40°-50°	1466.3	21.3
50°-60°	981.9	14.3
60°-70°	315.4	4.6
70°-80°	192.9	2.8
80°-90°	71.4	1.0
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°	2389.0	34.7
0°-40°	3851.7	56.0
0°-60°	6299.9	91.6
0°-90°	6879.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6879.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3194	
5°	3168	300
15°	2991	843
25°	2703	1246
35°	2339	1463
45°	1904	1466
55°	1113	982
65°	284	315
75°	185	193
85°	65	71
90°	0	

TEST NUMBER: P866139

CATALOG NUMBER: PRLX-2001-M-940-65L-L-U-S-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3194.1
2.5°	3188.5
5°	3168.0
7.5°	3138.1
10°	3097.0
12.5°	3050.4
15°	2990.6
17.5°	2929.0
20°	2858.1
22.5°	2785.3
25°	2703.1
27.5°	2621.0
30°	2529.5
32.5°	2436.2
35°	2339.1
37.5°	2238.3
40°	2131.9
42.5°	2023.6
45°	1904.2
47.5°	1782.8
50°	1646.5
52.5°	1437.4
55°	1112.6
57.5°	789.7
60°	520.8
62.5°	367.8
65°	283.8
67.5°	250.2
70°	231.5
72.5°	209.1
75°	184.8
77.5°	156.8
80°	128.8
82.5°	98.9
85°	65.3
87.5°	33.6
90°	0.0



TEST NUMBER: P866139  
 CATALOG NUMBER: PRLX-2001-M-940-65L-L-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	19.74	21.22	20.11	21.53	21.85	19.74	21.22	20.11	21.53	21.85
	3H	20.23	21.54	20.60	21.86	22.23	20.23	21.54	20.60	21.86	22.23
	4H	20.55	21.77	20.95	22.12	22.50	20.55	21.77	20.95	22.12	22.50
	6H	20.87	22.00	21.29	22.37	22.76	20.87	22.00	21.29	22.37	22.76
	8H	21.01	22.08	21.44	22.47	22.87	21.01	22.08	21.44	22.47	22.87
	12H	21.12	22.14	21.55	22.53	22.95	21.12	22.14	21.55	22.53	22.95
4H	2H	19.78	21.00	20.18	21.35	21.73	19.78	21.00	20.18	21.35	21.73
	3H	20.49	21.49	20.90	21.89	22.29	20.49	21.49	20.90	21.89	22.29
	4H	20.96	21.86	21.40	22.28	22.72	20.96	21.86	21.40	22.28	22.72
	6H	21.46	22.24	21.92	22.68	23.15	21.46	22.24	21.92	22.68	23.15
	8H	21.67	22.40	22.13	22.84	23.31	21.67	22.40	22.13	22.84	23.31
	12H	21.84	22.49	22.33	22.97	23.44	21.84	22.49	22.33	22.97	23.44
8H	4H	21.13	21.85	21.59	22.30	22.77	21.13	21.85	21.59	22.30	22.77
	6H	21.76	22.36	22.26	22.86	23.33	21.76	22.36	22.26	22.86	23.33
	8H	22.05	22.60	22.57	23.11	23.60	22.05	22.60	22.57	23.11	23.60
	12H	22.32	22.81	22.83	23.30	23.87	22.32	22.81	22.83	23.30	23.87
12H	4H	21.14	21.79	21.62	22.27	22.74	21.14	21.79	21.62	22.27	22.74
	6H	21.80	22.35	22.32	22.86	23.35	21.80	22.35	22.32	22.86	23.35
	8H	22.16	22.65	22.67	23.14	23.71	22.16	22.65	22.67	23.14	23.71