

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: P866107

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866107  
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-940-25L-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 3  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

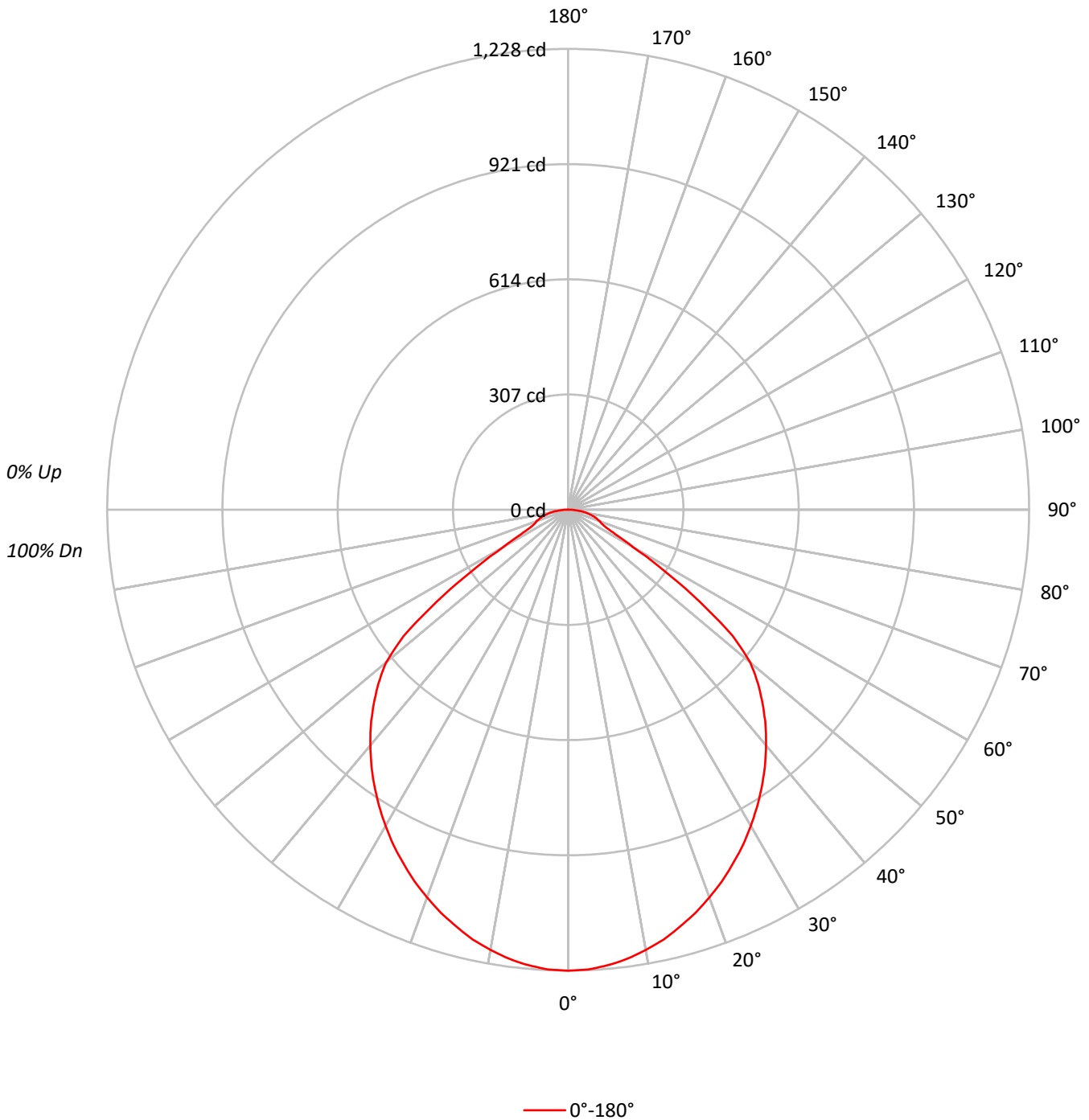
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2646.0 lumens  
Efficiency: N/A  
Efficacy: 121.9 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): 21.7  
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

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### Luminous Intensity Polar Plot





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**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°	10425
5°	10380
10°	10264
15°	10105
20°	9927
25°	9735
30°	9533
35°	9320
40°	9084
45°	8790
50°	8361
55°	6331
60°	3399
65°	2191
70°	2208
75°	2331
80°	2419
85°	2444

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8790 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.5	4.4
10°-20°	324.3	12.3
20°-30°	479.1	18.1
30°-40°	562.6	21.3
40°-50°	564.0	21.3
50°-60°	377.7	14.3
60°-70°	121.3	4.6
70°-80°	74.2	2.8
80°-90°	27.4	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°	918.9	34.7
0°-40°	1481.5	56.0
0°-60°	2423.1	91.6
0°-90°	2646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2646.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1228	
5°	1218	115
15°	1150	324
25°	1040	479
35°	900	563
45°	732	564
55°	428	378
65°	109	121
75°	71	74
85°	25	27
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1228.5
2.5°	1226.4
5°	1218.5
7.5°	1207.0
10°	1191.2
12.5°	1173.2
15°	1150.2
17.5°	1126.6
20°	1099.3
22.5°	1071.3
25°	1039.7
27.5°	1008.1
30°	972.9
32.5°	937.0
35°	899.7
37.5°	860.9
40°	820.0
42.5°	778.3
45°	732.4
47.5°	685.7
50°	633.3
52.5°	552.9
55°	427.9
57.5°	303.7
60°	200.3
62.5°	141.4
65°	109.1
67.5°	96.2
70°	89.0
72.5°	80.4
75°	71.1
77.5°	60.3
80°	49.5
82.5°	38.1
85°	25.1
87.5°	12.9
90°	0.0



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**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	16.42	17.90	16.79	18.21	18.53	16.42	17.90	16.79	18.21	18.53
	3H	16.90	18.21	17.28	18.54	18.91	16.90	18.21	17.28	18.54	18.91
	4H	17.23	18.45	17.63	18.80	19.18	17.23	18.45	17.63	18.80	19.18
	6H	17.55	18.68	17.97	19.05	19.44	17.55	18.68	17.97	19.05	19.44
	8H	17.69	18.76	18.12	19.15	19.55	17.69	18.76	18.12	19.15	19.55
	12H	17.80	18.82	18.23	19.20	19.63	17.80	18.82	18.23	19.20	19.63
4H	2H	16.46	17.68	16.86	18.03	18.41	16.46	17.68	16.86	18.03	18.41
	3H	17.17	18.17	17.58	18.57	18.97	17.17	18.17	17.58	18.57	18.97
	4H	17.64	18.54	18.08	18.96	19.40	17.64	18.54	18.08	18.96	19.40
	6H	18.14	18.92	18.60	19.36	19.82	18.14	18.92	18.60	19.36	19.82
	8H	18.35	19.08	18.81	19.52	19.99	18.35	19.08	18.81	19.52	19.99
	12H	18.52	19.17	19.01	19.65	20.12	18.52	19.17	19.01	19.65	20.12
8H	4H	17.81	18.53	18.27	18.98	19.45	17.81	18.53	18.27	18.98	19.45
	6H	18.44	19.04	18.94	19.54	20.01	18.44	19.04	18.94	19.54	20.01
	8H	18.73	19.28	19.25	19.79	20.28	18.73	19.28	19.25	19.79	20.28
	12H	19.00	19.49	19.51	19.98	20.55	19.00	19.49	19.51	19.98	20.55
12H	4H	17.82	18.47	18.30	18.95	19.42	17.82	18.47	18.30	18.95	19.42
	6H	18.48	19.03	19.00	19.54	20.03	18.48	19.03	19.00	19.54	20.03
	8H	18.84	19.33	19.35	19.82	20.39	18.84	19.33	19.35	19.82	20.39