

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: P866095

Luminaire Tested: PRLX-2001-M-940-15L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866095  
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-940-15L-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 2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

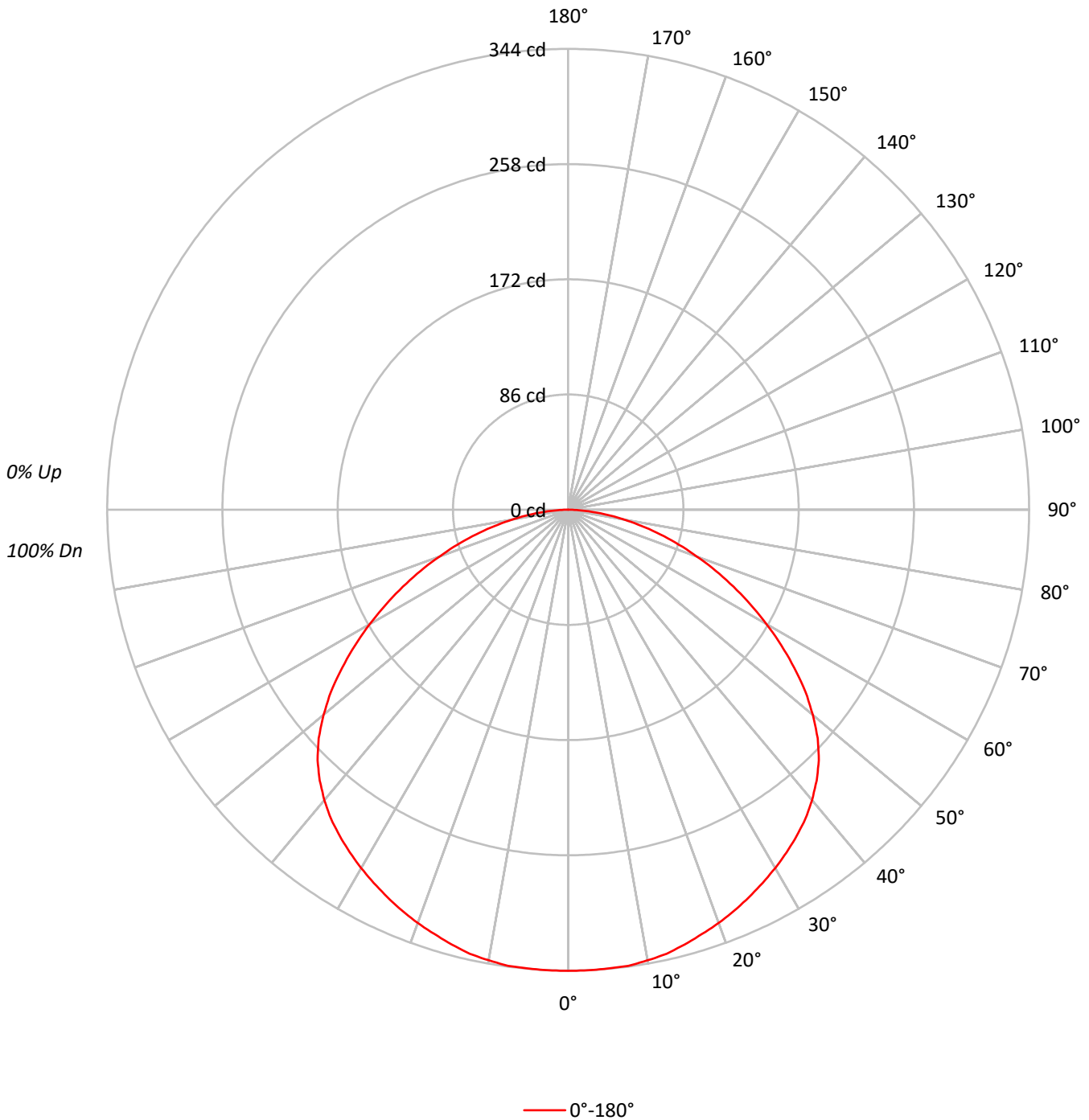
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1079.1 lumens  
Efficiency: N/A  
Efficacy: 77.1 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): 14  
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	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°	2921
5°	2929
10°	2944
15°	2952
20°	2965
25°	2989
30°	3027
35°	3080
40°	3135
45°	3174
50°	3145
55°	3046
60°	2902
65°	2733
70°	2533
75°	2331
80°	2062
85°	1675

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3174 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.8	3.0
10°-20°	94.9	8.8
20°-30°	147.4	13.7
30°-40°	186.2	17.3
40°-50°	203.2	18.8
50°-60°	183.9	17.0
60°-70°	134.9	12.5
70°-80°	75.4	7.0
80°-90°	20.5	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
0°-30°	275.1	25.5
0°-40°	461.2	42.7
0°-60°	848.3	78.6
0°-90°	1079.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1079.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	344	
5°	344	33
15°	336	95
25°	319	147
35°	297	186
45°	264	203
55°	206	184
65°	136	135
75°	71	75
85°	17	21
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	344.2
2.5°	344.2
5°	343.8
7.5°	343.4
10°	341.6
12.5°	339.5
15°	336.0
17.5°	332.1
20°	328.3
22.5°	324.0
25°	319.2
27.5°	314.1
30°	308.9
32.5°	303.3
35°	297.3
37.5°	290.8
40°	283.0
42.5°	274.4
45°	264.5
47.5°	252.5
50°	238.2
52.5°	223.2
55°	205.9
57.5°	188.7
60°	171.0
62.5°	153.4
65°	136.1
67.5°	119.3
70°	102.1
72.5°	86.6
75°	71.1
77.5°	56.0
80°	42.2
82.5°	29.3
85°	17.2
87.5°	7.8
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	16.12	17.79	16.49	18.10	18.41	16.12	17.79	16.49	18.10	18.41
	3H	17.81	19.32	18.19	19.64	20.00	17.81	19.32	18.19	19.64	20.00
	4H	18.44	19.86	18.84	20.21	20.58	18.44	19.86	18.84	20.21	20.58
	6H	18.89	20.21	19.30	20.57	20.96	18.89	20.21	19.30	20.57	20.96
	8H	19.04	20.30	19.46	20.68	21.08	19.04	20.30	19.46	20.68	21.08
	12H	19.13	20.33	19.56	20.72	21.14	19.13	20.33	19.56	20.72	21.14
4H	2H	16.72	18.14	17.12	18.49	18.87	16.72	18.14	17.12	18.49	18.87
	3H	18.64	19.82	19.04	20.22	20.62	18.64	19.82	19.04	20.22	20.62
	4H	19.39	20.47	19.82	20.88	21.32	19.39	20.47	19.82	20.88	21.32
	6H	19.97	20.91	20.42	21.35	21.81	19.97	20.91	20.42	21.35	21.81
	8H	20.16	21.04	20.62	21.48	21.95	20.16	21.04	20.62	21.48	21.95
	12H	20.29	21.09	20.77	21.56	22.03	20.29	21.09	20.77	21.56	22.03
8H	4H	19.69	20.57	20.15	21.01	21.48	19.69	20.57	20.15	21.01	21.48
	6H	20.38	21.12	20.88	21.60	22.08	20.38	21.12	20.88	21.60	22.08
	8H	20.64	21.30	21.15	21.81	22.29	20.64	21.30	21.15	21.81	22.29
	12H	20.84	21.42	21.35	21.91	22.47	20.84	21.42	21.35	21.91	22.47
12H	4H	19.72	20.51	20.20	20.99	21.46	19.72	20.51	20.20	20.99	21.46
	6H	20.44	21.10	20.94	21.60	22.09	20.44	21.10	20.94	21.60	22.09
	8H	20.75	21.33	21.26	21.82	22.38	20.75	21.33	21.26	21.82	22.38