

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: P866611

Luminaire Tested: PRLX-2004-M-940-15L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-M-940-15L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

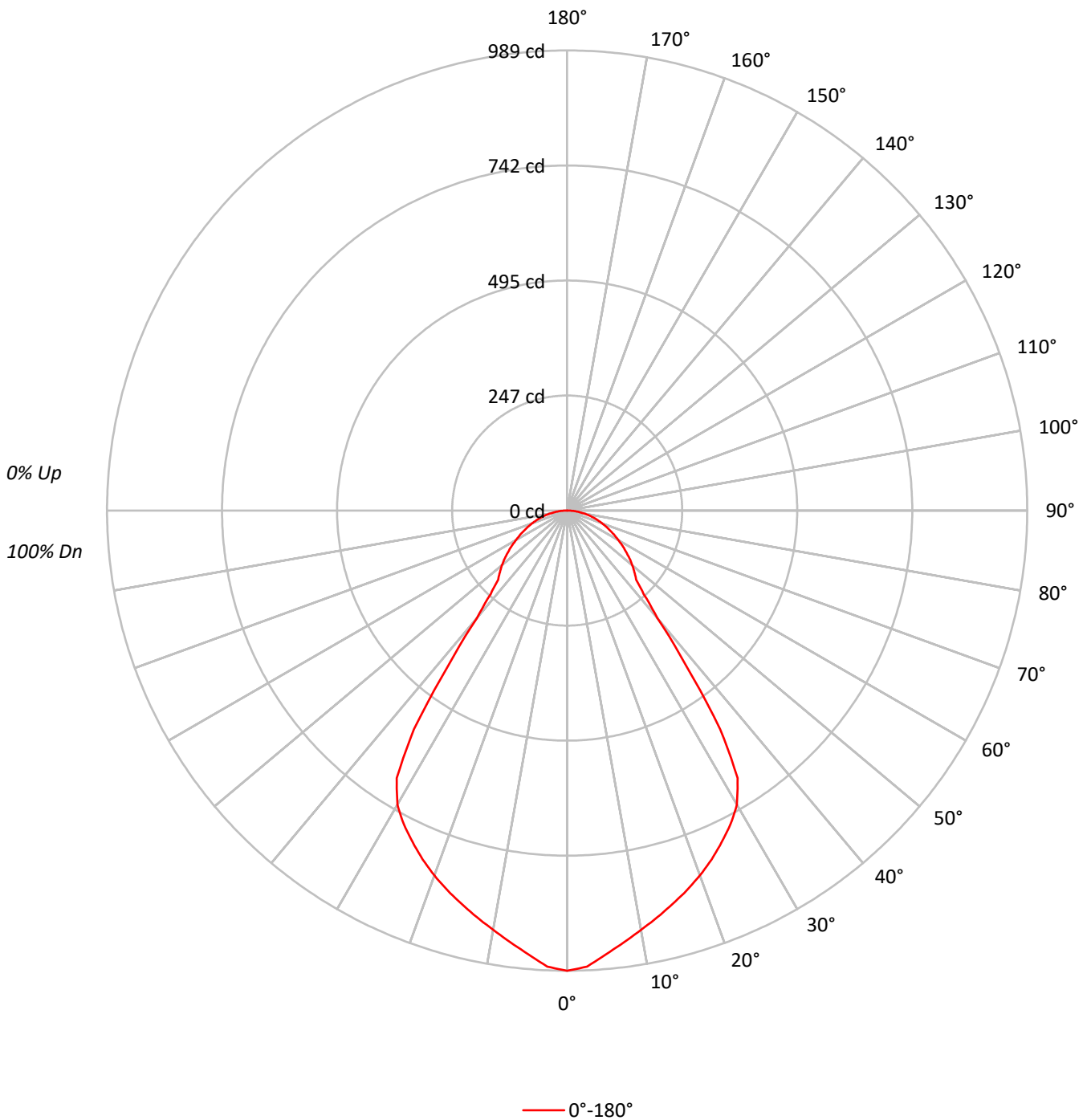
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1531.6 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 1.31' 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: 0.5 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	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

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

	0°
0°	7869
5°	7644
10°	7392
15°	7210
20°	7065
25°	6901
30°	6704
35°	5573
40°	3136
45°	2360
50°	2266
55°	2146
60°	2022
65°	1922
70°	1854
75°	1801
80°	1755
85°	1734

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2360 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.1	5.9
10°-20°	246.9	16.1
20°-30°	362.0	23.6
30°-40°	338.2	22.1
40°-50°	171.5	11.2
50°-60°	138.5	9.0
60°-70°	101.8	6.6
70°-80°	61.9	4.0
80°-90°	20.7	1.4
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°	699.0	45.6
0°-40°	1037.2	67.7
0°-60°	1347.2	88.0
0°-90°	1531.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1531.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	989	
5°	957	90
15°	875	247
25°	786	362
35°	574	338
45°	210	171
55°	155	138
65°	102	102
75°	59	62
85°	19	21
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	989.1
2.5°	980.9
5°	957.2
7.5°	935.7
10°	915.0
12.5°	895.2
15°	875.4
17.5°	855.6
20°	834.5
22.5°	811.6
25°	786.2
27.5°	760.4
30°	729.8
32.5°	681.5
35°	573.8
37.5°	418.3
40°	302.0
42.5°	243.4
45°	209.8
47.5°	196.0
50°	183.1
52.5°	168.9
55°	154.7
57.5°	140.9
60°	127.1
62.5°	115.0
65°	102.1
67.5°	90.9
70°	79.7
72.5°	68.9
75°	58.6
77.5°	48.3
80°	38.3
82.5°	28.4
85°	19.0
87.5°	9.5
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	13.05	14.40	13.42	14.71	15.03	13.05	14.40	13.42	14.71	15.03
	3H	14.79	16.00	15.17	16.33	16.70	14.79	16.00	15.17	16.33	16.70
	4H	15.50	16.63	15.90	16.98	17.36	15.50	16.63	15.90	16.98	17.36
	6H	16.07	17.12	16.49	17.49	17.88	16.07	17.12	16.49	17.49	17.88
	8H	16.28	17.28	16.71	17.67	18.07	16.28	17.28	16.71	17.67	18.07
	12H	16.44	17.39	16.87	17.78	18.21	16.44	17.39	16.87	17.78	18.21
4H	2H	13.60	14.74	14.01	15.09	15.47	13.60	14.74	14.01	15.09	15.47
	3H	15.58	16.52	15.99	16.92	17.33	15.58	16.52	15.99	16.92	17.33
	4H	16.43	17.28	16.86	17.69	18.14	16.43	17.28	16.86	17.69	18.14
	6H	17.15	17.88	17.61	18.33	18.79	17.15	17.88	17.61	18.33	18.79
	8H	17.42	18.10	17.88	18.55	19.02	17.42	18.10	17.88	18.55	19.02
	12H	17.63	18.24	18.12	18.72	19.20	17.63	18.24	18.12	18.72	19.20
8H	4H	16.74	17.42	17.20	17.87	18.34	16.74	17.42	17.20	17.87	18.34
	6H	17.61	18.17	18.11	18.67	19.15	17.61	18.17	18.11	18.67	19.15
	8H	17.97	18.47	18.49	18.99	19.48	17.97	18.47	18.49	18.99	19.48
	12H	18.29	18.73	18.80	19.22	19.79	18.29	18.73	18.80	19.22	19.79
12H	4H	16.77	17.38	17.25	17.86	18.33	16.77	17.38	17.25	17.86	18.33
	6H	17.68	18.18	18.19	18.69	19.19	17.68	18.18	18.19	18.69	19.19
	8H	18.11	18.55	18.62	19.04	19.61	18.11	18.55	18.62	19.04	19.61