

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: P866651

Luminaire Tested: PRLX-2004-M-940-65L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866651  
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: Pentalux  
Catalog Number: PRLX-2004-M-940-65L-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 7  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

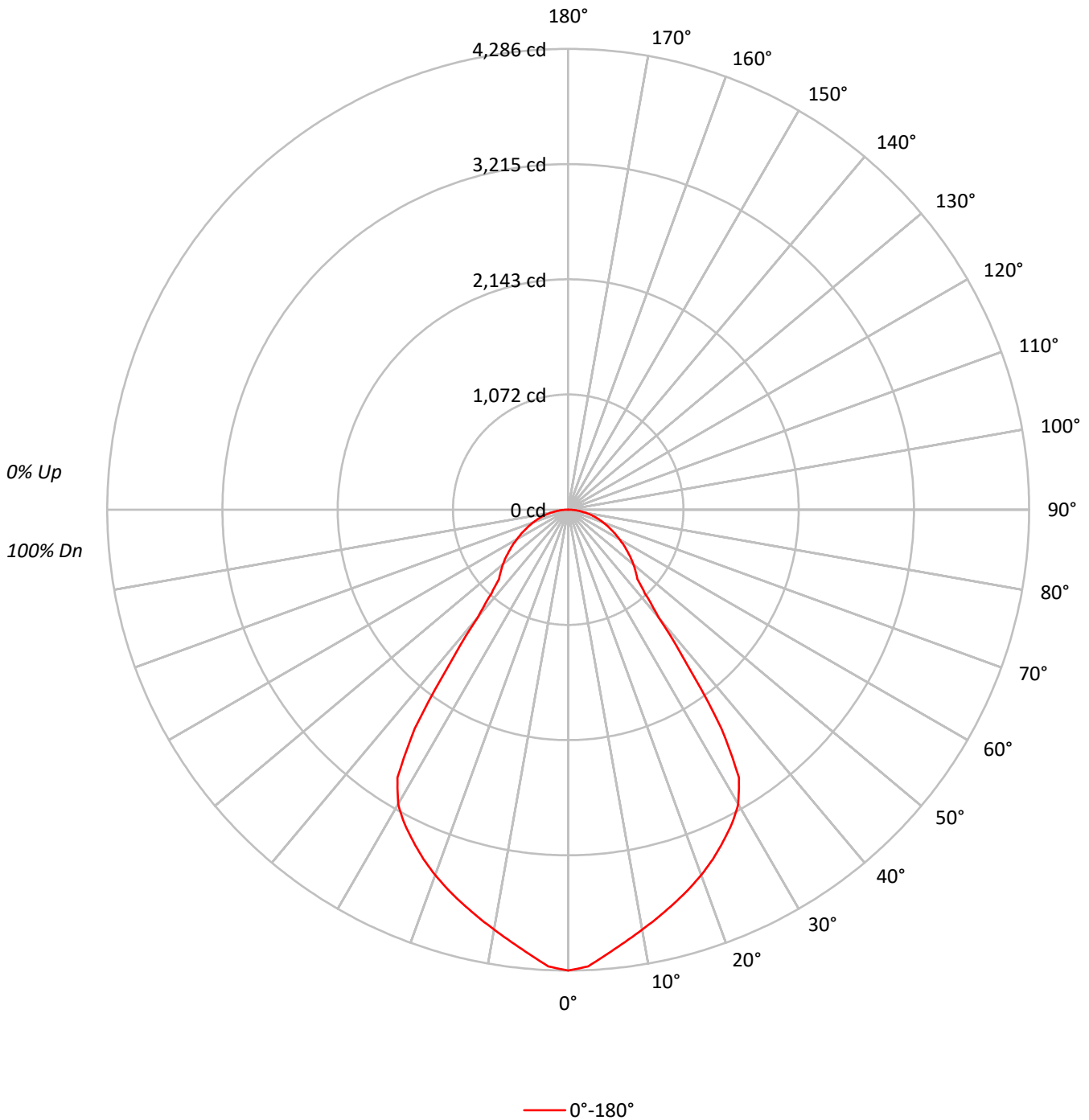
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6636.8 lumens  
Efficiency: N/A  
Efficacy: 113.3 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): 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: 0.5 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°	34100
5°	33127
10°	32032
15°	31244
20°	30614
25°	29906
30°	29051
35°	24150
40°	13590
45°	10228
50°	9820
55°	9296
60°	8762
65°	8328
70°	8034
75°	7805
80°	7610
85°	7494

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10228 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.4	5.9
10°-20°	1070.1	16.1
20°-30°	1568.6	23.6
30°-40°	1465.4	22.1
40°-50°	743.1	11.2
50°-60°	600.0	9.0
60°-70°	441.1	6.6
70°-80°	268.4	4.0
80°-90°	89.6	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°	3029.1	45.6
0°-40°	4494.5	67.7
0°-60°	5837.6	88.0
0°-90°	6636.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6636.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4286	
5°	4148	390
15°	3793	1070
25°	3407	1569
35°	2487	1465
45°	909	743
55°	670	600
65°	442	441
75°	254	268
85°	82	90
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4286.2
2.5°	4250.7
5°	4148.1
7.5°	4054.7
10°	3965.1
12.5°	3879.2
15°	3793.4
17.5°	3707.5
20°	3616.0
22.5°	3517.1
25°	3406.9
27.5°	3294.9
30°	3162.4
32.5°	2953.3
35°	2486.6
37.5°	1812.7
40°	1308.6
42.5°	1054.8
45°	909.1
47.5°	849.4
50°	793.4
52.5°	731.8
55°	670.2
57.5°	610.4
60°	550.7
62.5°	498.4
65°	442.4
67.5°	393.9
70°	345.4
72.5°	298.7
75°	253.9
77.5°	209.1
80°	166.1
82.5°	123.2
85°	82.1
87.5°	41.1
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	18.14	19.49	18.51	19.81	20.12	18.14	19.49	18.51	19.81	20.12
	3H	19.88	21.10	20.26	21.42	21.79	19.88	21.10	20.26	21.42	21.79
	4H	20.59	21.73	20.99	22.08	22.46	20.59	21.73	20.99	22.08	22.46
	6H	21.17	22.21	21.58	22.58	22.98	21.17	22.21	21.58	22.58	22.98
	8H	21.38	22.37	21.81	22.76	23.17	21.38	22.37	21.81	22.76	23.17
	12H	21.54	22.49	21.97	22.87	23.30	21.54	22.49	21.97	22.87	23.30
4H	2H	18.70	19.83	19.10	20.18	20.56	18.70	19.83	19.10	20.18	20.56
	3H	20.67	21.62	21.09	22.02	22.42	20.67	21.62	21.09	22.02	22.42
	4H	21.52	22.37	21.96	22.79	23.23	21.52	22.37	21.96	22.79	23.23
	6H	22.24	22.98	22.70	23.42	23.89	22.24	22.98	22.70	23.42	23.89
	8H	22.51	23.20	22.98	23.64	24.11	22.51	23.20	22.98	23.64	24.11
	12H	22.72	23.33	23.21	23.82	24.29	22.72	23.33	23.21	23.82	24.29
8H	4H	21.83	22.52	22.30	22.96	23.43	21.83	22.52	22.30	22.96	23.43
	6H	22.70	23.27	23.20	23.76	24.24	22.70	23.27	23.20	23.76	24.24
	8H	23.06	23.57	23.58	24.08	24.57	23.06	23.57	23.58	24.08	24.57
	12H	23.38	23.82	23.89	24.32	24.89	23.38	23.82	23.89	24.32	24.89
12H	4H	21.86	22.47	22.35	22.95	23.43	21.86	22.47	22.35	22.95	23.43
	6H	22.77	23.28	23.29	23.79	24.28	22.77	23.28	23.29	23.79	24.28
	8H	23.20	23.64	23.71	24.14	24.71	23.20	23.64	23.71	24.14	24.71