

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: P865808

Luminaire Tested: PRLX-2004-S-930-25L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2004-S-930-25L-L-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

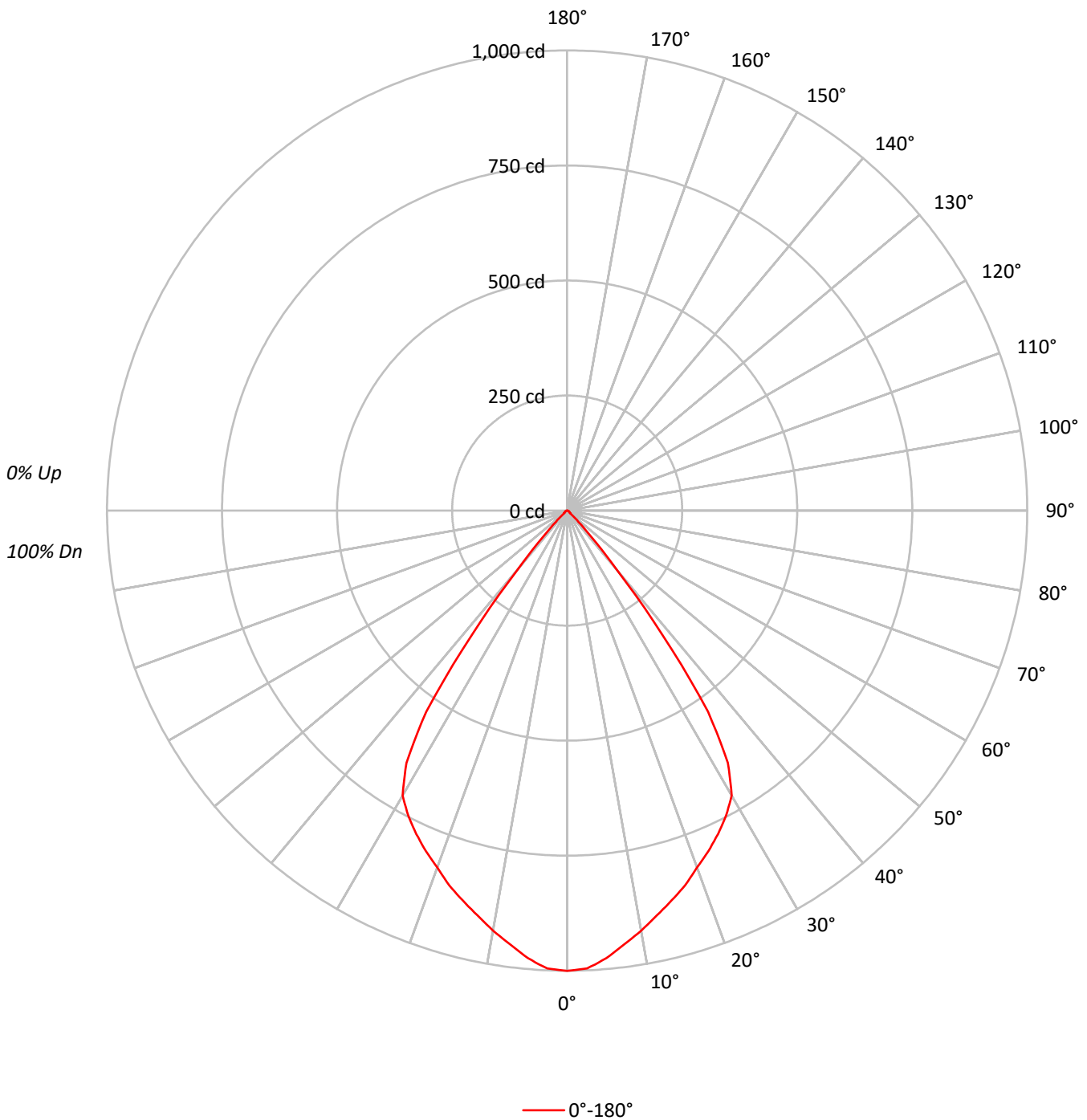
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1048.3 lumens  
Efficiency: N/A  
Efficacy: 36.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.02  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.1  
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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	59
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	63	58	54	63	57	53	62	57	53	61	56	53	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48

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

	0°
0°	16315
5°	15988
10°	15349
15°	14810
20°	14325
25°	13958
30°	13468
35°	10624
40°	3543
45°	798
50°	218
55°	185
60°	140
65°	166
70°	105
75°	139
80°	207
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 798 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.6	8.7
10°-20°	247.1	23.6
20°-30°	356.6	34.0
30°-40°	301.4	28.7
40°-50°	39.2	3.7
50°-60°	5.8	0.6
60°-70°	4.0	0.4
70°-80°	2.3	0.2
80°-90°	0.3	0.0
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°	695.3	66.3
0°-40°	996.7	95.1
0°-60°	1041.7	99.4
0°-90°	1048.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1000	
5°	976	92
15°	877	247
25°	776	357
35°	534	301
45°	35	39
55°	6	6
65°	4	4
75°	2	2
85°	0	0
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1000.3
2.5°	996.0
5°	976.5
7.5°	950.6
10°	926.8
12.5°	900.9
15°	877.1
17.5°	853.4
20°	825.3
22.5°	801.5
25°	775.6
27.5°	747.5
30°	715.1
32.5°	650.3
35°	533.6
37.5°	339.2
40°	166.4
42.5°	77.8
45°	34.6
47.5°	10.8
50°	8.6
52.5°	6.5
55°	6.5
57.5°	6.5
60°	4.3
62.5°	4.3
65°	4.3
67.5°	4.3
70°	2.2
72.5°	2.2
75°	2.2
77.5°	2.2
80°	2.2
82.5°	0.0
85°	0.0
87.5°	0.0
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.24	0.72	0.00	0.00	0.00	0.24	0.72
	8H	0.00	0.00	0.00	0.23	0.71	0.00	0.00	0.00	0.23	0.71
	12H	0.00	0.00	0.00	0.14	0.62	0.00	0.00	0.00	0.14	0.62
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.11	0.27	0.61	1.10	0.00	0.11	0.27	0.61	1.10
	8H	0.00	0.09	0.32	0.61	1.11	0.00	0.09	0.32	0.61	1.11
	12H	0.00	0.00	0.25	0.49	1.07	0.00	0.00	0.25	0.49	1.07
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.09	0.32	0.61	1.11	0.00	0.09	0.32	0.61	1.11
	8H	0.00	0.08	0.34	0.58	1.16	0.00	0.08	0.34	0.58	1.16