

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: P866988

Luminaire Tested: PRLX-2002-L-930-117L-L-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866988  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-83)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-L-930-117L-L-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

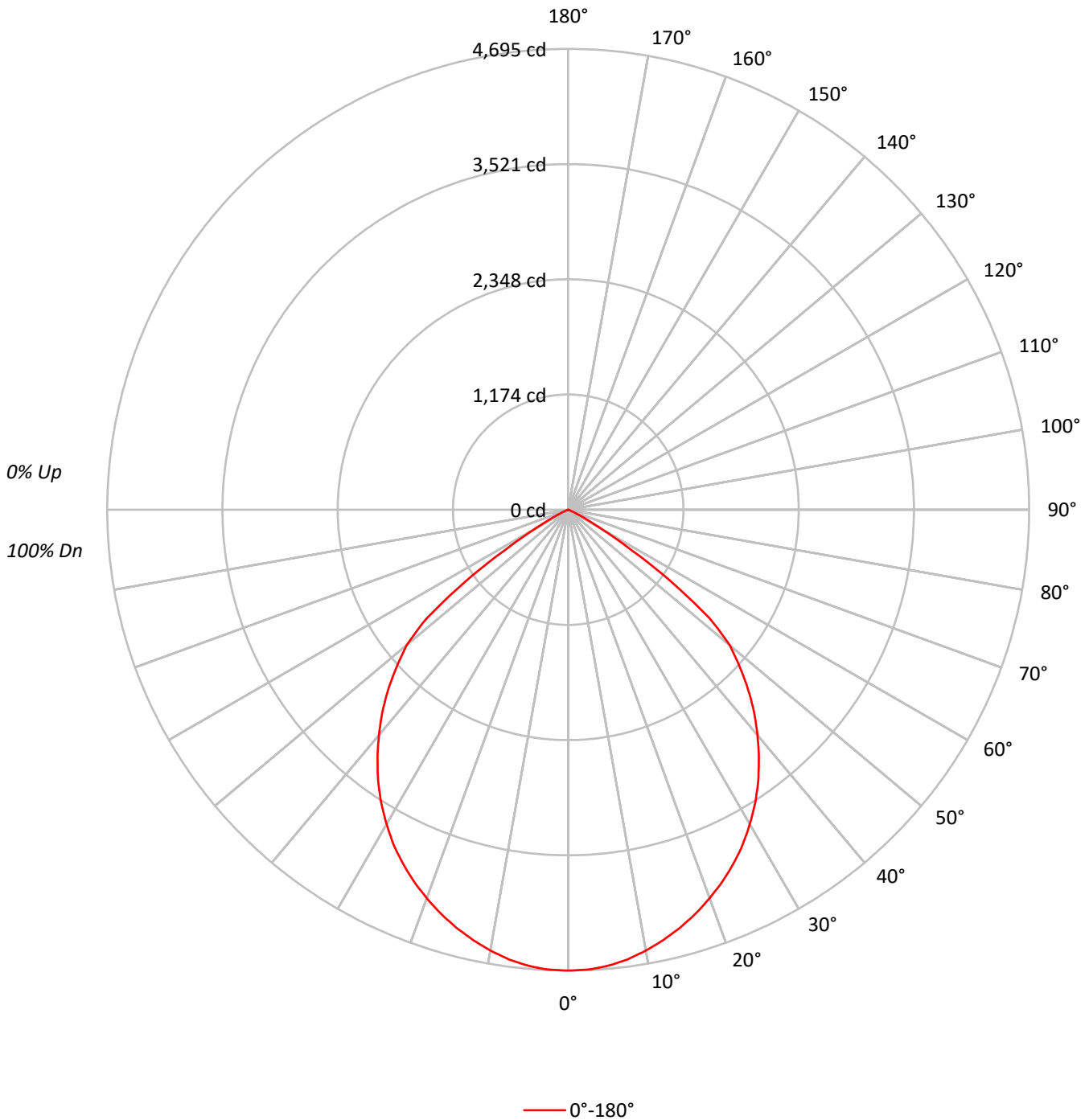
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8879.9 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	34

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

	0°
0°	23164
5°	23098
10°	22851
15°	22510
20°	22118
25°	21667
30°	21079
35°	20320
40°	19310
45°	18080
50°	16480
55°	11019
60°	3915
65°	905
70°	146
75°	154
80°	199
85°	226

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18080 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.9	5.0
10°-20°	1242.0	14.0
20°-30°	1831.5	20.6
30°-40°	2104.7	23.7
40°-50°	1992.5	22.4
50°-60°	1134.4	12.8
60°-70°	120.3	1.4
70°-80°	8.6	0.1
80°-90°	3.9	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°	3515.4	39.6
0°-40°	5620.1	63.3
0°-60°	8747.0	98.5
0°-90°	8879.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8879.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4695	
5°	4664	442
15°	4407	1242
25°	3980	1831
35°	3374	2105
45°	2591	1993
55°	1281	1134
65°	78	120
75°	8	9
85°	4	4
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4695.0
2.5°	4690.0
5°	4663.8
7.5°	4620.5
10°	4561.1
12.5°	4488.5
15°	4407.0
17.5°	4314.3
20°	4212.6
22.5°	4101.8
25°	3980.0
27.5°	3849.0
30°	3700.0
32.5°	3542.9
35°	3373.7
37.5°	3190.4
40°	2998.1
42.5°	2803.7
45°	2591.2
47.5°	2370.7
50°	2147.1
52.5°	1812.7
55°	1281.0
57.5°	764.4
60°	396.8
62.5°	198.4
65°	77.5
67.5°	15.1
70°	10.1
72.5°	9.1
75°	8.1
77.5°	7.0
80°	7.0
82.5°	5.0
85°	4.0
87.5°	2.0
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	16.81	18.18	17.18	18.49	18.80	16.81	18.18	17.18	18.49	18.80
	3H	16.69	17.88	17.07	18.21	18.58	16.69	17.88	17.07	18.21	18.58
	4H	16.62	17.73	17.02	18.08	18.46	16.62	17.73	17.02	18.08	18.46
	6H	16.54	17.56	16.96	17.93	18.32	16.54	17.56	16.96	17.93	18.32
	8H	16.50	17.46	16.93	17.85	18.26	16.50	17.46	16.93	17.85	18.26
	12H	16.46	17.38	16.89	17.76	18.19	16.46	17.38	16.89	17.76	18.19
4H	2H	16.64	17.75	17.04	18.10	18.48	16.64	17.75	17.04	18.10	18.48
	3H	16.52	17.41	16.93	17.81	18.21	16.52	17.41	16.93	17.81	18.21
	4H	16.43	17.22	16.87	17.64	18.08	16.43	17.22	16.87	17.64	18.08
	6H	16.35	17.03	16.82	17.48	17.95	16.35	17.03	16.82	17.48	17.95
	8H	16.30	16.93	16.77	17.38	17.85	16.30	16.93	16.77	17.38	17.85
	12H	16.25	16.81	16.74	17.29	17.77	16.25	16.81	16.74	17.29	17.77
8H	4H	16.29	16.93	16.76	17.37	17.85	16.29	16.93	16.76	17.37	17.85
	6H	16.19	16.71	16.69	17.21	17.69	16.19	16.71	16.69	17.21	17.69
	8H	16.12	16.60	16.64	17.11	17.60	16.12	16.60	16.64	17.11	17.60
	12H	16.07	16.50	16.59	16.99	17.56	16.07	16.50	16.59	16.99	17.56
12H	4H	16.25	16.81	16.73	17.29	17.76	16.25	16.81	16.73	17.29	17.76
	6H	16.12	16.59	16.64	17.11	17.60	16.12	16.59	16.64	17.11	17.60
	8H	16.07	16.50	16.58	16.99	17.56	16.07	16.50	16.58	16.99	17.56