

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: P867246

Luminaire Tested: PRLX-2004-L-930-117L-L-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-86)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2004-L-930-117L-L-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, BELL WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

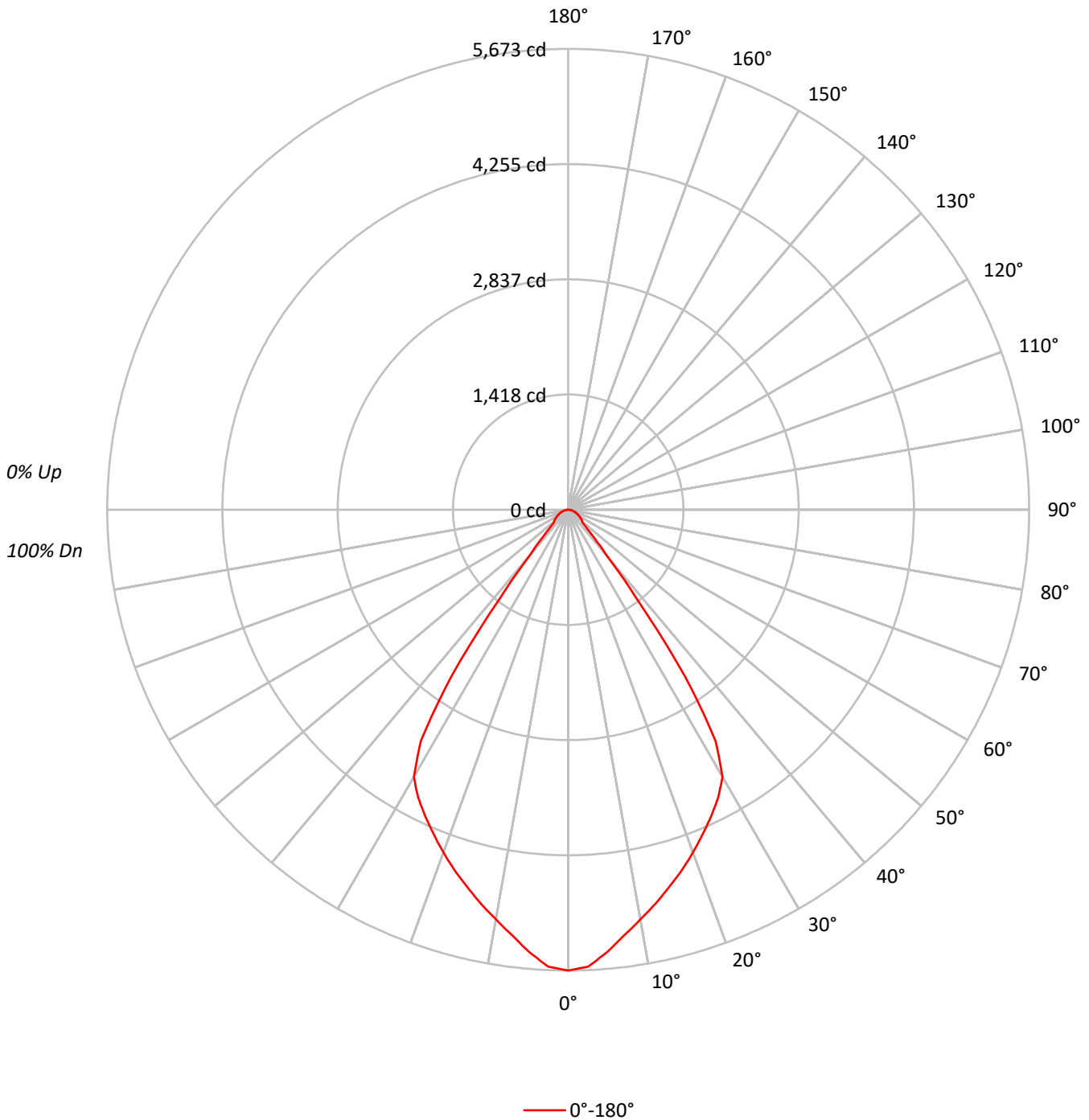
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5915.5 lumens  
Efficiency: N/A  
Efficacy: 62.1 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
Input Voltage (V): 120  
Input Current (Ain): 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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	72	62	56	51	71	62	55	51	61	55	51	60	55	51	59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46

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

	0°
0°	27989
5°	27078
10°	25661
15°	24547
20°	23572
25°	22653
30°	21630
35°	15152
40°	4767
45°	2312
50°	1724
55°	1664
60°	1550
65°	1435
70°	1337
75°	1249
80°	1173
85°	1081

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2312 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.7	8.6
10°-20°	1353.7	22.9
20°-30°	1914.6	32.4
30°-40°	1457.9	24.6
40°-50°	293.1	5.0
50°-60°	171.9	2.9
60°-70°	122.3	2.1
70°-80°	69.8	1.2
80°-90°	21.5	0.4
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°	3779.0	63.9
0°-40°	5236.9	88.5
0°-60°	5701.9	96.4
0°-90°	5915.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5915.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5673	
5°	5467	511
15°	4806	1354
25°	4161	1915
35°	2516	1458
45°	331	293
55°	193	172
65°	123	122
75°	66	70
85°	19	22
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5672.9
2.5°	5630.6
5°	5467.4
7.5°	5284.1
10°	5122.0
12.5°	4965.9
15°	4805.8
17.5°	4652.7
20°	4489.6
22.5°	4324.4
25°	4161.2
27.5°	3996.1
30°	3796.7
32.5°	3374.7
35°	2515.7
37.5°	1390.8
40°	740.2
42.5°	489.4
45°	331.3
47.5°	238.7
50°	224.6
52.5°	210.5
55°	193.4
57.5°	174.2
60°	157.1
62.5°	139.0
65°	122.9
67.5°	107.8
70°	92.7
72.5°	78.6
75°	65.5
77.5°	53.4
80°	41.3
82.5°	30.2
85°	19.1
87.5°	9.1
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	8.55	9.60	8.91	9.91	10.23	8.55	9.60	8.91	9.91	10.23
	3H	10.11	11.04	10.49	11.37	11.74	10.11	11.04	10.49	11.37	11.74
	4H	10.70	11.57	11.11	11.92	12.31	10.70	11.57	11.11	11.92	12.31
	6H	11.16	11.95	11.58	12.32	12.72	11.16	11.95	11.58	12.32	12.72
	8H	11.32	12.06	11.75	12.45	12.86	11.32	12.06	11.75	12.45	12.86
	12H	11.42	12.12	11.85	12.51	12.94	11.42	12.12	11.85	12.51	12.94
4H	2H	9.01	9.87	9.42	10.23	10.62	9.01	9.87	9.42	10.23	10.62
	3H	10.79	11.49	11.20	11.90	12.31	10.79	11.49	11.20	11.90	12.31
	4H	11.50	12.13	11.94	12.56	13.00	11.50	12.13	11.94	12.56	13.00
	6H	12.09	12.63	12.56	13.08	13.55	12.09	12.63	12.56	13.08	13.55
	8H	12.29	12.80	12.77	13.25	13.72	12.29	12.80	12.77	13.25	13.72
	12H	12.44	12.87	12.93	13.36	13.84	12.44	12.87	12.93	13.36	13.84
8H	4H	11.72	12.23	12.20	12.68	13.15	11.72	12.23	12.20	12.68	13.15
	6H	12.45	12.85	12.96	13.35	13.84	12.45	12.85	12.96	13.35	13.84
	8H	12.74	13.10	13.27	13.62	14.11	12.74	13.10	13.27	13.62	14.11
	12H	12.97	13.28	13.50	13.78	14.36	12.97	13.28	13.50	13.78	14.36
12H	4H	11.73	12.16	12.22	12.65	13.13	11.73	12.16	12.22	12.65	13.13
	6H	12.49	12.85	13.02	13.37	13.86	12.49	12.85	13.02	13.37	13.86
	8H	12.84	13.15	13.36	13.64	14.22	12.84	13.15	13.36	13.64	14.22