

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: P867242

Luminaire Tested: PRLX-2004-L-930-100L-G-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867242  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-74)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-L-930-100L-G-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
BELL WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

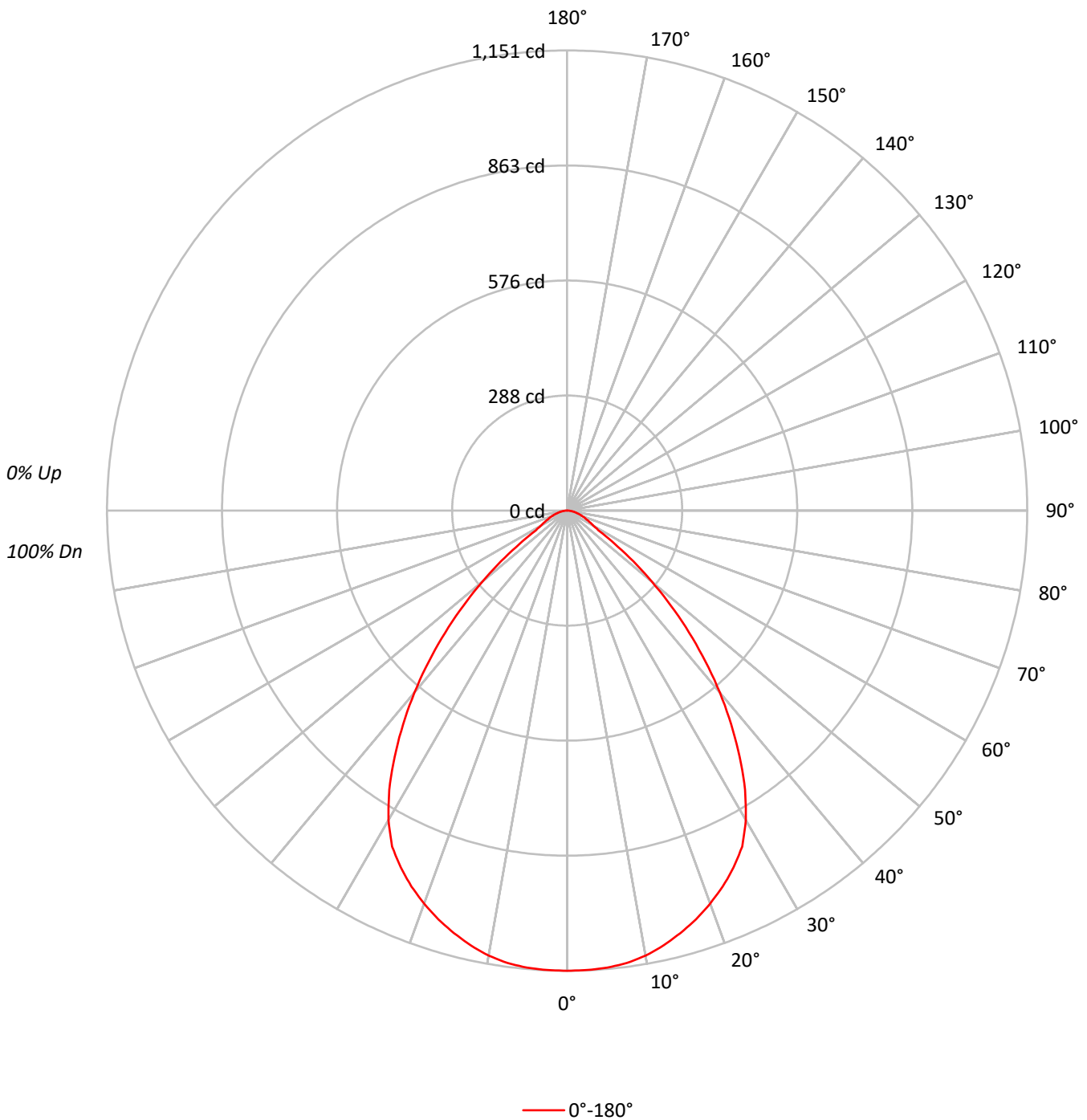
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1899.2 lumens  
Efficiency: N/A  
Efficacy: 23.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.15  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 79.4  
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: 0.333 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	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	85	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		74	70	66	64
5	85	75	67	62	83	73	67	62	72	66	61		70	64	60		68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55		64	59	55		63	58	54	53
7	74	63	56	51	73	62	55	50	61	55	50		60	54	50		58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46		55	50	45		54	49	45	44
9	66	54	47	42	64	54	47	42	53	46	42		52	46	42		51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39		48	42	39		47	42	38	37

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

	0°
0°	5679
5°	5684
10°	5663
15°	5590
20°	5493
25°	5362
30°	5091
35°	4532
40°	3826
45°	3009
50°	2122
55°	1237
60°	748
65°	643
70°	571
75°	509
80°	466
85°	436

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3009 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.0	5.7
10°-20°	308.4	16.2
20°-30°	451.7	23.8
30°-40°	467.2	24.6
40°-50°	331.8	17.5
50°-60°	138.1	7.3
60°-70°	55.8	2.9
70°-80°	28.7	1.5
80°-90°	8.5	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°	869.0	45.8
0°-40°	1336.3	70.4
0°-60°	1806.2	95.1
0°-90°	1899.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1899.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1151	
5°	1148	109
15°	1094	308
25°	985	452
35°	752	467
45°	431	332
55°	144	138
65°	55	56
75°	27	29
85°	8	9
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1151.1
2.5°	1150.2
5°	1147.7
7.5°	1141.6
10°	1130.4
12.5°	1114.1
15°	1094.3
17.5°	1071.9
20°	1046.1
22.5°	1017.7
25°	984.9
27.5°	947.9
30°	893.7
32.5°	828.2
35°	752.5
37.5°	674.1
40°	594.1
42.5°	512.3
45°	431.3
47.5°	352.1
50°	276.4
52.5°	208.4
55°	143.8
57.5°	95.6
60°	75.8
62.5°	65.4
65°	55.1
67.5°	47.4
70°	39.6
72.5°	32.7
75°	26.7
77.5°	21.5
80°	16.4
82.5°	12.1
85°	7.7
87.5°	3.4
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	7.97	9.26	8.34	9.57	9.89	7.97	9.26	8.34	9.57	9.89
	3H	9.04	10.18	9.42	10.51	10.87	9.04	10.18	9.42	10.51	10.87
	4H	9.43	10.49	9.84	10.84	11.23	9.43	10.49	9.84	10.84	11.23
	6H	9.74	10.71	10.15	11.08	11.47	9.74	10.71	10.15	11.08	11.47
	8H	9.84	10.76	10.27	11.15	11.56	9.84	10.76	10.27	11.15	11.56
	12H	9.91	10.79	10.34	11.17	11.60	9.91	10.79	10.34	11.17	11.60
4H	2H	8.28	9.33	8.68	9.69	10.07	8.28	9.33	8.68	9.69	10.07
	3H	9.56	10.42	9.98	10.83	11.23	9.56	10.42	9.98	10.83	11.23
	4H	10.07	10.84	10.51	11.26	11.71	10.07	10.84	10.51	11.26	11.71
	6H	10.50	11.16	10.96	11.61	12.08	10.50	11.16	10.96	11.61	12.08
	8H	10.65	11.26	11.12	11.71	12.18	10.65	11.26	11.12	11.71	12.18
	12H	10.76	11.30	11.24	11.79	12.26	10.76	11.30	11.24	11.79	12.26
8H	4H	10.23	10.85	10.70	11.29	11.77	10.23	10.85	10.70	11.29	11.77
	6H	10.76	11.27	11.27	11.77	12.25	10.76	11.27	11.27	11.77	12.25
	8H	10.98	11.44	11.50	11.95	12.44	10.98	11.44	11.50	11.95	12.44
	12H	11.17	11.57	11.68	12.07	12.64	11.17	11.57	11.68	12.07	12.64
12H	4H	10.23	10.77	10.71	11.25	11.73	10.23	10.77	10.71	11.25	11.73
	6H	10.78	11.24	11.31	11.75	12.25	10.78	11.24	11.31	11.75	12.25
	8H	11.05	11.46	11.57	11.95	12.52	11.05	11.46	11.57	11.95	12.52