

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: P867263

Luminaire Tested: PRLX-2004-L-930-15L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-L-930-15L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

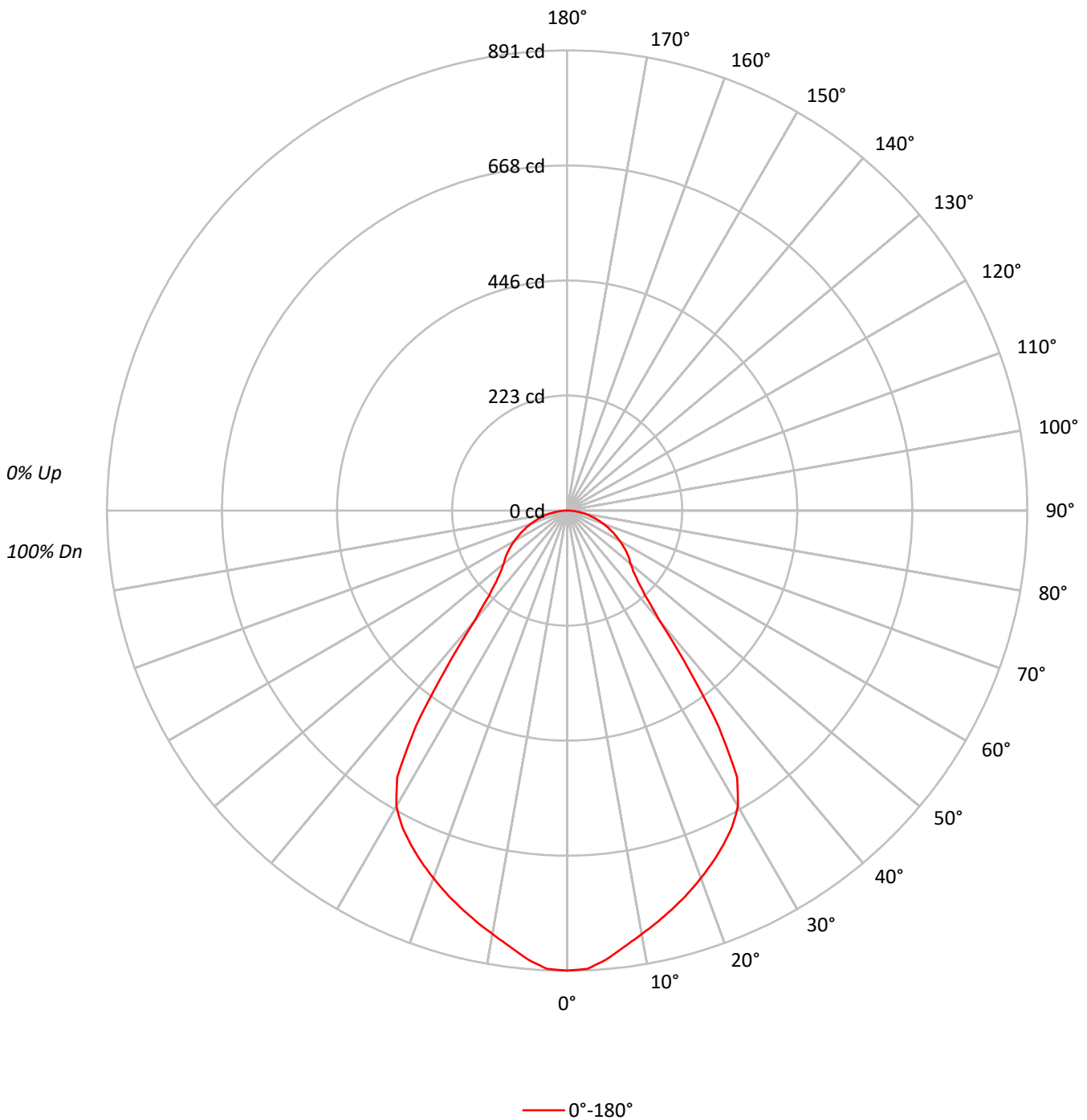
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1392.7 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.4  
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: 0.5 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	82		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	70	65	75	69	64		73	68	63		71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58		67	61	57		65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	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		53	48	43		52	47	43	41
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°	4395
5°	4321
10°	4171
15°	4066
20°	3976
25°	3890
30°	3767
35°	3085
40°	1791
45°	1354
50°	1231
55°	1210
60°	1167
65°	1121
70°	1076
75°	1029
80°	986
85°	945

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1354 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.9	5.9
10°-20°	224.5	16.1
20°-30°	328.7	23.6
30°-40°	305.7	21.9
40°-50°	155.7	11.2
50°-60°	125.3	9.0
60°-70°	95.1	6.8
70°-80°	57.3	4.1
80°-90°	18.4	1.3
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°	635.2	45.6
0°-40°	940.9	67.6
0°-60°	1221.9	87.7
0°-90°	1392.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1392.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	891	
5°	872	82
15°	796	224
25°	715	329
35°	512	306
45°	194	156
55°	141	125
65°	96	95
75°	54	57
85°	17	18
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	890.8
2.5°	888.2
5°	872.4
7.5°	851.3
10°	832.5
12.5°	814.7
15°	796.1
17.5°	777.4
20°	757.3
22.5°	736.9
25°	714.6
27.5°	691.2
30°	661.3
32.5°	612.2
35°	512.2
37.5°	384.4
40°	278.1
42.5°	223.6
45°	194.1
47.5°	173.4
50°	160.4
52.5°	151.0
55°	140.7
57.5°	129.2
60°	118.3
62.5°	106.9
65°	96.0
67.5°	85.1
70°	74.6
72.5°	64.3
75°	54.0
77.5°	44.3
80°	34.7
82.5°	25.7
85°	16.7
87.5°	8.0
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	11.12	12.48	11.49	12.79	13.10	11.12	12.48	11.49	12.79	13.10
	3H	12.92	14.13	13.30	14.46	14.83	12.92	14.13	13.30	14.46	14.83
	4H	13.63	14.76	14.03	15.12	15.50	13.63	14.76	14.03	15.12	15.50
	6H	14.19	15.24	14.60	15.61	16.00	14.19	15.24	14.60	15.61	16.00
	8H	14.39	15.38	14.82	15.78	16.18	14.39	15.38	14.82	15.78	16.18
	12H	14.53	15.49	14.97	15.87	16.30	14.53	15.49	14.97	15.87	16.30
4H	2H	11.71	12.85	12.11	13.20	13.58	11.71	12.85	12.11	13.20	13.58
	3H	13.73	14.68	14.14	15.08	15.48	13.73	14.68	14.14	15.08	15.48
	4H	14.57	15.42	15.01	15.84	16.28	14.57	15.42	15.01	15.84	16.28
	6H	15.27	16.01	15.73	16.45	16.92	15.27	16.01	15.73	16.45	16.92
	8H	15.52	16.21	15.99	16.66	17.13	15.52	16.21	15.99	16.66	17.13
	12H	15.72	16.33	16.21	16.82	17.29	15.72	16.33	16.21	16.82	17.29
8H	4H	14.88	15.57	15.34	16.01	16.48	14.88	15.57	15.34	16.01	16.48
	6H	15.72	16.28	16.22	16.78	17.26	15.72	16.28	16.22	16.78	17.26
	8H	16.07	16.57	16.58	17.09	17.58	16.07	16.57	16.58	17.09	17.58
	12H	16.36	16.81	16.87	17.30	17.87	16.36	16.81	16.87	17.30	17.87
12H	4H	14.90	15.52	15.39	16.00	16.47	14.90	15.52	15.39	16.00	16.47
	6H	15.78	16.29	16.30	16.80	17.29	15.78	16.29	16.30	16.80	17.29
	8H	16.20	16.64	16.71	17.13	17.70	16.20	16.64	16.71	17.13	17.70