

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: P866495

Luminaire Tested: PRLX-2004-M-930-35L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-42)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-M-930-35L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

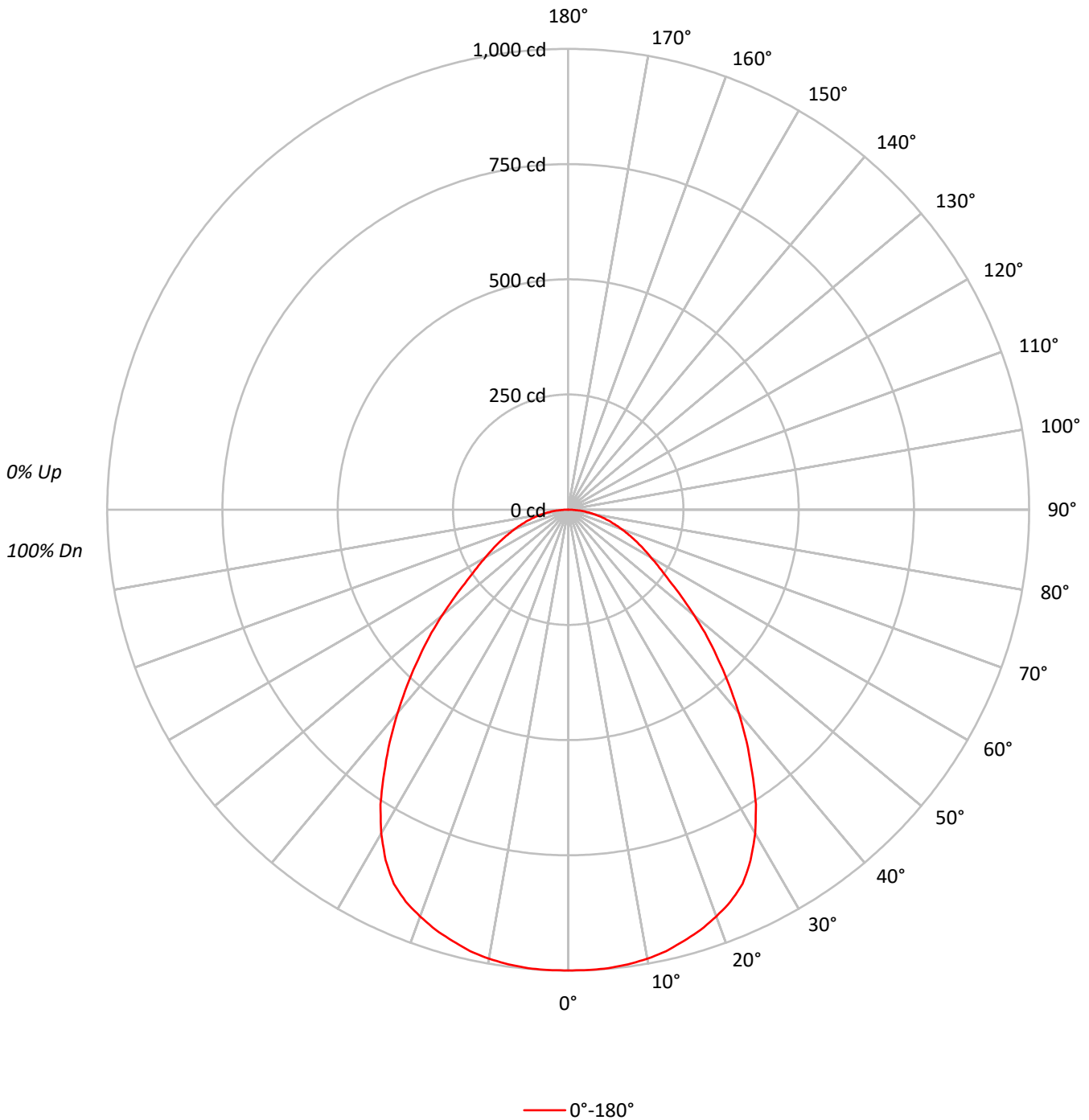
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2099.7 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 30  
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: 0.5 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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	53	64	58	53	62	57	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

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

	0°
0°	7954
5°	7977
10°	7994
15°	7981
20°	7952
25°	7861
30°	7448
35°	6754
40°	5975
45°	5185
50°	4412
55°	3706
60°	3303
65°	3067
70°	2880
75°	2748
80°	2644
85°	2547

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5185 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.0	4.5
10°-20°	273.6	13.0
20°-30°	408.9	19.5
30°-40°	434.0	20.7
40°-50°	356.5	17.0
50°-60°	243.9	11.6
60°-70°	162.1	7.7
70°-80°	94.9	4.5
80°-90°	30.9	1.5
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°	777.5	37.0
0°-40°	1211.5	57.7
0°-60°	1811.8	86.3
0°-90°	2099.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2099.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1000	
5°	999	95
15°	969	274
25°	896	409
35°	695	434
45°	461	356
55°	267	244
65°	163	162
75°	89	95
85°	28	31
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	999.8
2.5°	999.8
5°	998.8
7.5°	995.1
10°	989.5
12.5°	981.2
15°	969.0
17.5°	956.0
20°	939.3
22.5°	920.6
25°	895.5
27.5°	857.3
30°	810.8
32.5°	757.7
35°	695.4
37.5°	635.8
40°	575.3
42.5°	516.6
45°	460.8
47.5°	409.6
50°	356.5
52.5°	309.1
55°	267.2
57.5°	234.6
60°	207.6
62.5°	184.3
65°	162.9
67.5°	142.4
70°	123.8
72.5°	106.1
75°	89.4
77.5°	73.5
80°	57.7
82.5°	42.8
85°	27.9
87.5°	14.0
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	15.33	16.81	15.70	17.12	17.43	15.33	16.81	15.70	17.12	17.43
	3H	16.92	18.24	17.29	18.56	18.93	16.92	18.24	17.29	18.56	18.93
	4H	17.55	18.79	17.96	19.14	19.52	17.55	18.79	17.96	19.14	19.52
	6H	18.08	19.22	18.49	19.59	19.98	18.08	19.22	18.49	19.59	19.98
	8H	18.27	19.36	18.69	19.75	20.15	18.27	19.36	18.69	19.75	20.15
	12H	18.41	19.45	18.84	19.83	20.26	18.41	19.45	18.84	19.83	20.26
4H	2H	15.86	17.10	16.26	17.45	17.83	15.86	17.10	16.26	17.45	17.83
	3H	17.68	18.71	18.09	19.11	19.51	17.68	18.71	18.09	19.11	19.51
	4H	18.46	19.38	18.89	19.80	20.24	18.46	19.38	18.89	19.80	20.24
	6H	19.12	19.93	19.58	20.37	20.83	19.12	19.93	19.58	20.37	20.83
	8H	19.37	20.12	19.84	20.57	21.04	19.37	20.12	19.84	20.57	21.04
	12H	19.57	20.24	20.05	20.72	21.19	19.57	20.24	20.05	20.72	21.19
8H	4H	18.75	19.51	19.22	19.95	20.42	18.75	19.51	19.22	19.95	20.42
	6H	19.56	20.18	20.05	20.67	21.15	19.56	20.18	20.05	20.67	21.15
	8H	19.89	20.45	20.41	20.96	21.45	19.89	20.45	20.41	20.96	21.45
	12H	20.18	20.68	20.69	21.17	21.74	20.18	20.68	20.69	21.17	21.74
12H	4H	18.78	19.46	19.27	19.93	20.41	18.78	19.46	19.27	19.93	20.41
	6H	19.62	20.18	20.14	20.69	21.18	19.62	20.18	20.14	20.69	21.18
	8H	20.02	20.52	20.53	21.01	21.57	20.02	20.52	20.53	21.01	21.57