

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: P866767

Luminaire Tested: PRLX-2001-L-930-48L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866767  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-76)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-930-48L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

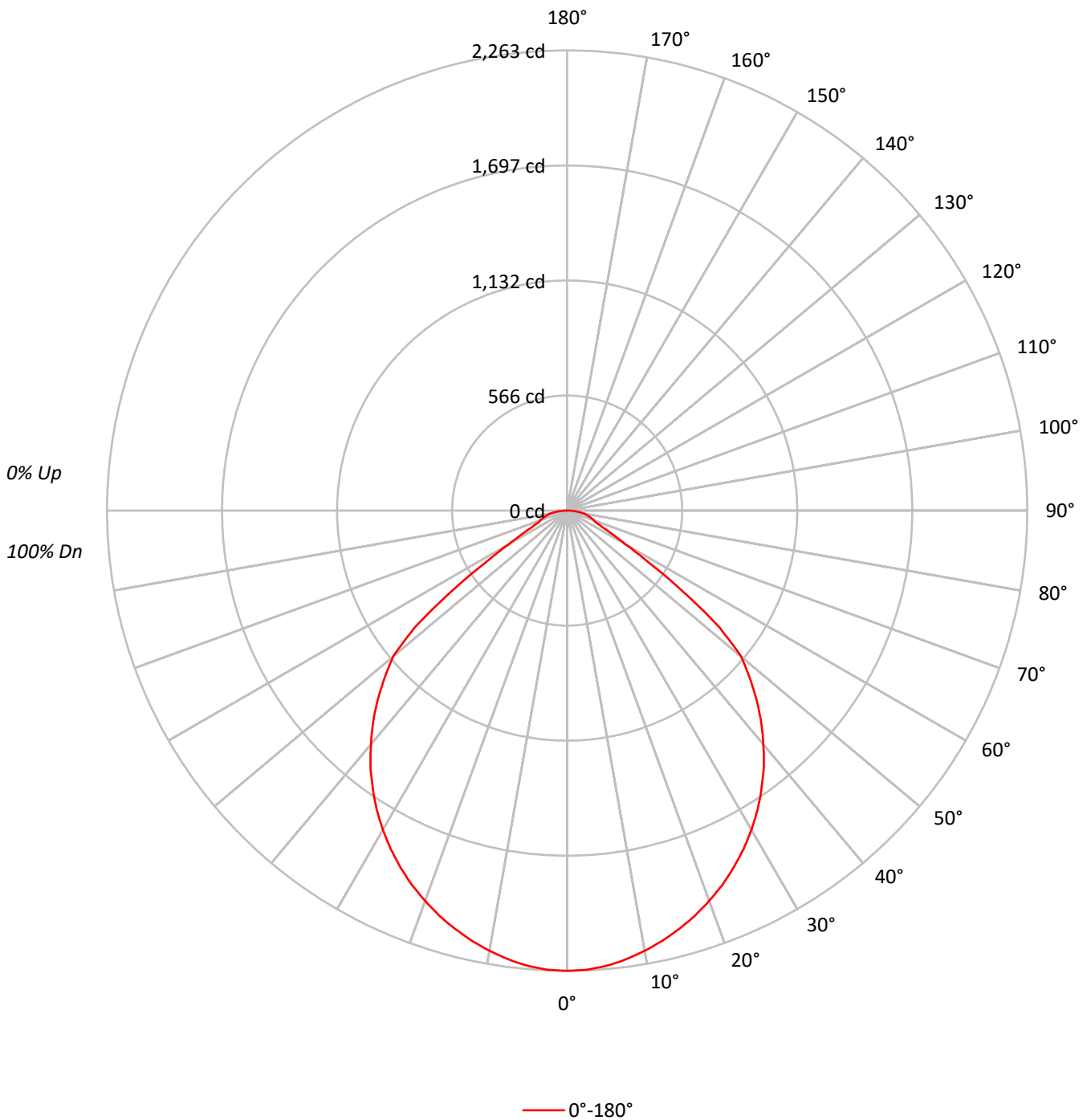
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4758.8 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.5  
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	111	107	103	100	108	105	101	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	32	31

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

	0°
0°	12372
5°	12329
10°	12202
15°	12053
20°	11883
25°	11686
30°	11440
35°	11124
40°	10716
45°	10184
50°	9503
55°	6675
60°	3614
65°	2460
70°	2236
75°	2374
80°	2553
85°	2729

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10184 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.9	4.5
10°-20°	600.5	12.6
20°-30°	892.0	18.7
30°-40°	1041.5	21.9
40°-50°	1013.7	21.3
50°-60°	630.8	13.3
60°-70°	203.3	4.3
70°-80°	118.0	2.5
80°-90°	46.1	1.0
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°	1705.4	35.8
0°-40°	2746.9	57.7
0°-60°	4391.4	92.3
0°-90°	4758.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4758.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2263	
5°	2247	213
15°	2130	601
25°	1937	892
35°	1667	1041
45°	1317	1014
55°	700	631
65°	190	203
75°	112	118
85°	44	46
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2263.1
2.5°	2260.6
5°	2246.6
7.5°	2225.5
10°	2198.0
12.5°	2166.8
15°	2129.6
17.5°	2089.0
20°	2042.5
22.5°	1993.5
25°	1937.3
27.5°	1877.3
30°	1812.2
32.5°	1743.3
35°	1666.8
37.5°	1588.6
40°	1501.6
42.5°	1413.2
45°	1317.3
47.5°	1217.1
50°	1117.4
52.5°	943.3
55°	700.3
57.5°	477.1
60°	330.5
62.5°	246.8
65°	190.2
67.5°	152.1
70°	139.9
72.5°	126.4
75°	112.4
77.5°	97.6
80°	81.1
82.5°	63.4
85°	43.5
87.5°	22.0
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	16.04	17.50	16.41	17.81	18.12	16.04	17.50	16.41	17.81	18.12
	3H	16.52	17.81	16.90	18.14	18.50	16.52	17.81	16.90	18.14	18.50
	4H	16.84	18.05	17.25	18.40	18.78	16.84	18.05	17.25	18.40	18.78
	6H	17.19	18.30	17.61	18.67	19.06	17.19	18.30	17.61	18.67	19.06
	8H	17.35	18.40	17.78	18.79	19.19	17.35	18.40	17.78	18.79	19.19
	12H	17.47	18.48	17.91	18.86	19.29	17.47	18.48	17.91	18.86	19.29
4H	2H	16.12	17.33	16.52	17.68	18.06	16.12	17.33	16.52	17.68	18.06
	3H	16.82	17.80	17.23	18.20	18.61	16.82	17.80	17.23	18.20	18.61
	4H	17.29	18.17	17.72	18.59	19.03	17.29	18.17	17.72	18.59	19.03
	6H	17.82	18.58	18.28	19.02	19.48	17.82	18.58	18.28	19.02	19.48
	8H	18.04	18.76	18.51	19.20	19.67	18.04	18.76	18.51	19.20	19.67
	12H	18.24	18.88	18.73	19.36	19.83	18.24	18.88	18.73	19.36	19.83
8H	4H	17.45	18.17	17.92	18.61	19.08	17.45	18.17	17.92	18.61	19.08
	6H	18.12	18.72	18.62	19.21	19.69	18.12	18.72	18.62	19.21	19.69
	8H	18.45	18.98	18.96	19.50	19.99	18.45	18.98	18.96	19.50	19.99
	12H	18.75	19.23	19.26	19.73	20.29	18.75	19.23	19.26	19.73	20.29
12H	4H	17.47	18.11	17.96	18.59	19.06	17.47	18.11	17.96	18.59	19.06
	6H	18.17	18.71	18.69	19.22	19.71	18.17	18.71	18.69	19.22	19.71
	8H	18.56	19.04	19.08	19.54	20.10	18.56	19.04	19.08	19.54	20.10