

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: P866737

Luminaire Tested: PRLX-2001-L-930-117L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866737  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-930-117L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

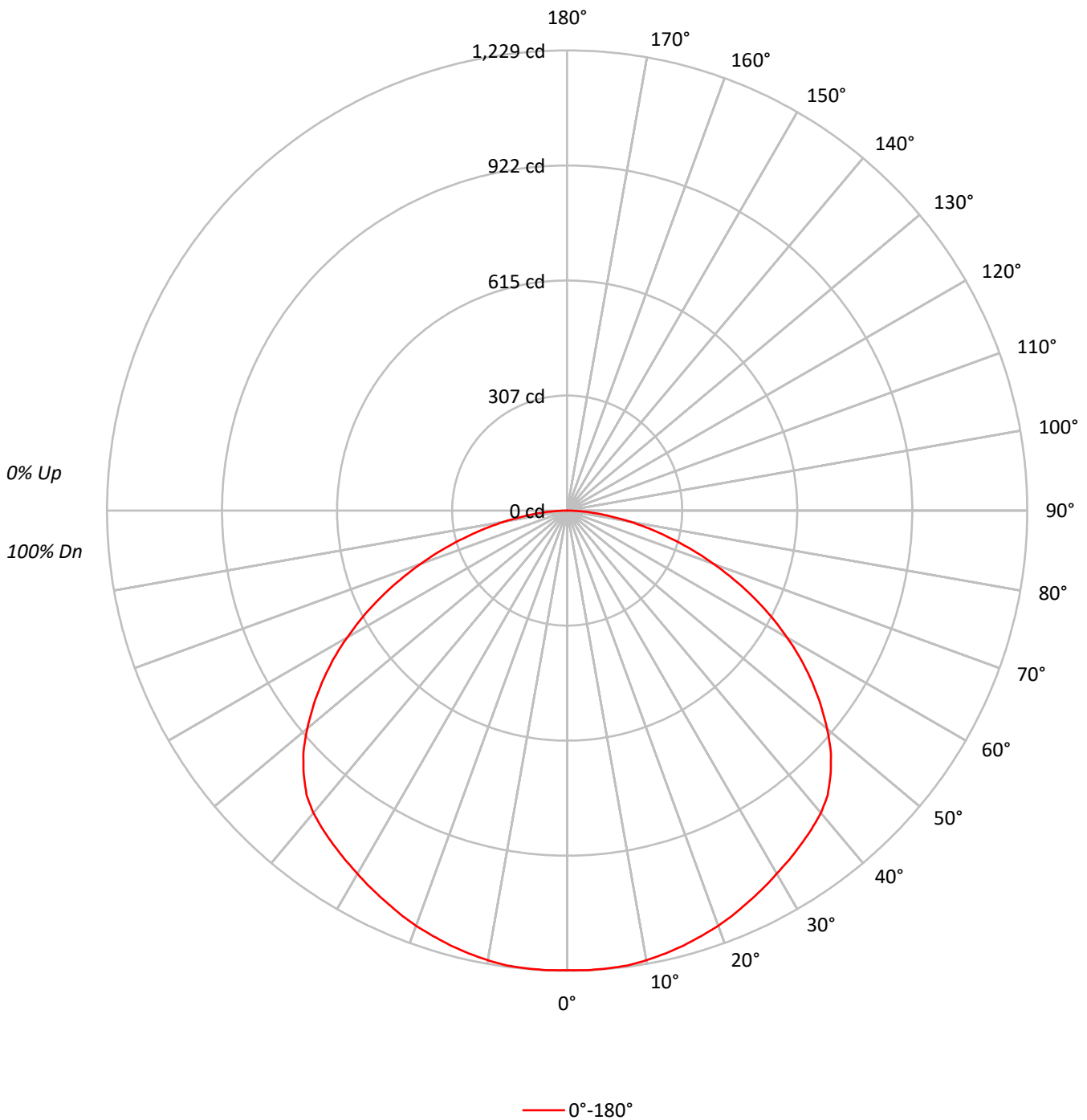
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4079.9 lumens  
Efficiency: N/A  
Efficacy: 42.9 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	40	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		34	28	24	22

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

	0°
0°	6711
5°	6737
10°	6770
15°	6805
20°	6867
25°	6943
30°	7069
35°	7266
40°	7525
45°	7693
50°	7709
55°	7612
60°	7422
65°	7113
70°	6648
75°	6041
80°	5358
85°	4359

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 7733 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.0	2.9
10°-20°	340.0	8.3
20°-30°	531.9	13.0
30°-40°	682.9	16.7
40°-50°	765.4	18.8
50°-60°	712.7	17.5
60°-70°	543.3	13.3
70°-80°	305.1	7.5
80°-90°	81.8	2.0
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°	988.8	24.2
0°-40°	1671.6	41.0
0°-60°	3149.8	77.2
0°-90°	4079.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4079.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1228	
5°	1228	117
15°	1202	340
25°	1151	532
35°	1089	683
45°	995	765
55°	799	713
65°	550	543
75°	286	305
85°	70	82
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1227.6
2.5°	1228.6
5°	1227.6
7.5°	1225.6
10°	1219.6
12.5°	1211.5
15°	1202.4
17.5°	1191.4
20°	1180.3
22.5°	1166.2
25°	1151.1
27.5°	1136.0
30°	1119.9
32.5°	1104.8
35°	1088.7
37.5°	1072.5
40°	1054.4
42.5°	1030.2
45°	995.0
47.5°	955.7
50°	906.4
52.5°	854.0
55°	798.6
57.5°	741.2
60°	678.8
62.5°	615.3
65°	549.9
67.5°	483.4
70°	415.9
72.5°	351.5
75°	286.0
77.5°	226.6
80°	170.2
82.5°	115.8
85°	69.5
87.5°	30.2
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	19.46	21.14	19.82	21.46	21.77	19.46	21.14	19.82	21.46	21.77
	3H	21.24	22.77	21.62	23.09	23.45	21.24	22.77	21.62	23.09	23.45
	4H	21.89	23.33	22.28	23.67	24.05	21.89	23.33	22.28	23.67	24.05
	6H	22.35	23.69	22.76	24.05	24.44	22.35	23.69	22.76	24.05	24.44
	8H	22.50	23.77	22.92	24.16	24.56	22.50	23.77	22.92	24.16	24.56
	12H	22.59	23.81	23.02	24.19	24.62	22.59	23.81	23.02	24.19	24.62
4H	2H	20.10	21.54	20.50	21.89	22.26	20.10	21.54	20.50	21.89	22.26
	3H	22.10	23.31	22.50	23.70	24.10	22.10	23.31	22.50	23.70	24.10
	4H	22.86	23.96	23.29	24.37	24.81	22.86	23.96	23.29	24.37	24.81
	6H	23.46	24.42	23.91	24.86	25.31	23.46	24.42	23.91	24.86	25.31
	8H	23.64	24.54	24.10	24.98	25.45	23.64	24.54	24.10	24.98	25.45
	12H	23.78	24.59	24.26	25.06	25.53	23.78	24.59	24.26	25.06	25.53
8H	4H	23.17	24.07	23.63	24.51	24.98	23.17	24.07	23.63	24.51	24.98
	6H	23.88	24.63	24.37	25.11	25.59	23.88	24.63	24.37	25.11	25.59
	8H	24.13	24.81	24.64	25.31	25.79	24.13	24.81	24.64	25.31	25.79
	12H	24.33	24.93	24.84	25.42	25.98	24.33	24.93	24.84	25.42	25.98
12H	4H	23.21	24.02	23.68	24.49	24.96	23.21	24.02	23.68	24.49	24.96
	6H	23.93	24.61	24.44	25.11	25.59	23.93	24.61	24.44	25.11	25.59
	8H	24.24	24.84	24.75	25.33	25.88	24.24	24.84	24.75	25.33	25.88