

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: P866690

Luminaire Tested: PRLX-2001-L-927-15L-G-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-927-15L-G-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

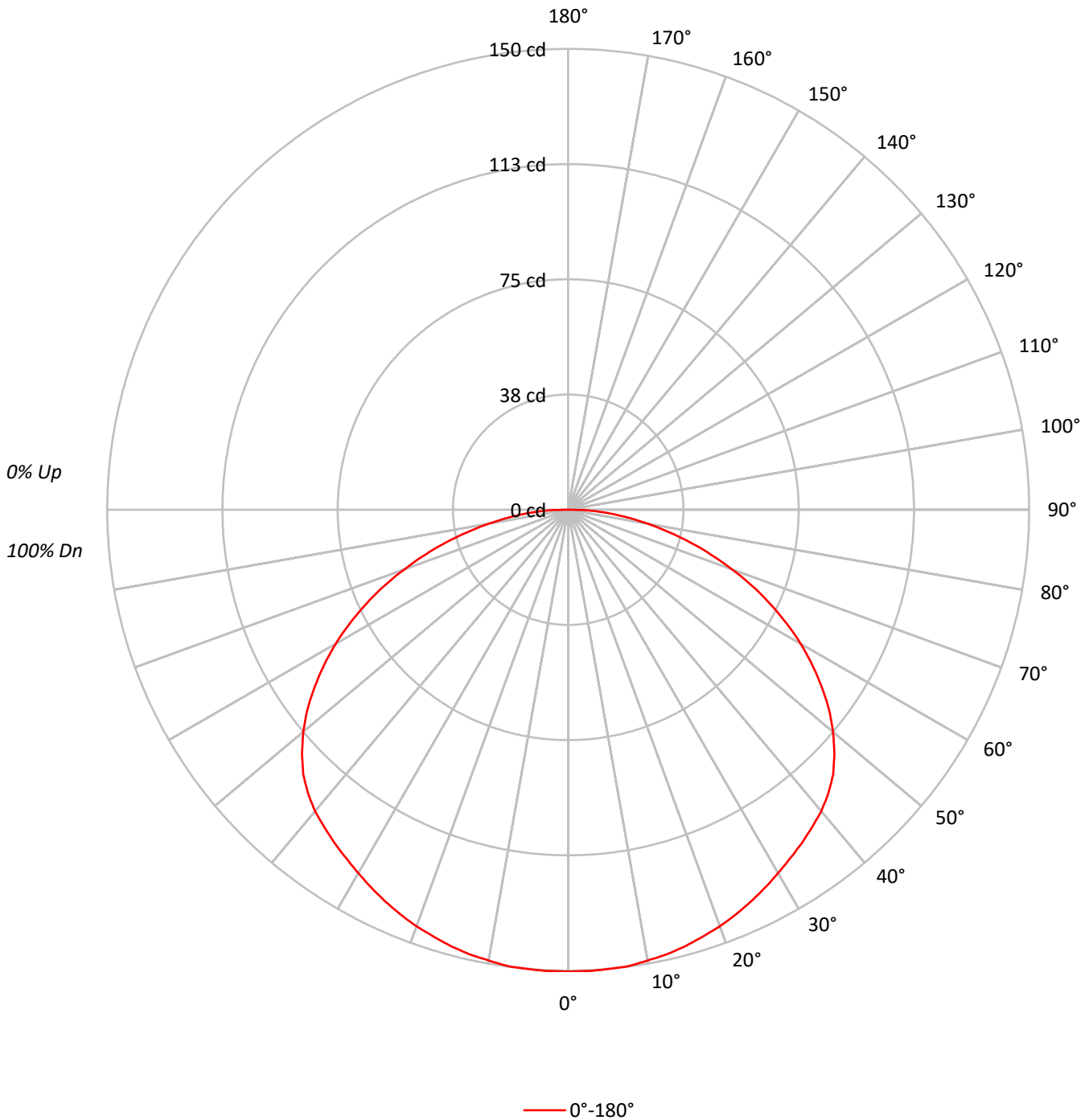
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 517.1 lumens  
Efficiency: N/A  
Efficacy: 31.5 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 1.58' 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23

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

	0°
0°	822
5°	824
10°	827
15°	833
20°	839
25°	849
30°	862
35°	884
40°	914
45°	942
50°	957
55°	961
60°	956
65°	938
70°	906
75°	868
80°	825
85°	815

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 961 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.3	2.8
10°-20°	41.6	8.0
20°-30°	65.0	12.6
30°-40°	83.1	16.1
40°-50°	93.7	18.1
50°-60°	89.9	17.4
60°-70°	71.6	13.9
70°-80°	43.5	8.4
80°-90°	14.4	2.8
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°	120.9	23.4
0°-40°	203.9	39.4
0°-60°	387.6	75.0
0°-90°	517.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	517.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	150	
5°	150	14
15°	147	42
25°	141	65
35°	132	83
45°	122	94
55°	101	90
65°	72	72
75°	41	44
85°	13	14
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	150.3
2.5°	150.3
5°	150.1
7.5°	149.9
10°	149.0
12.5°	148.2
15°	147.1
17.5°	145.7
20°	144.3
22.5°	142.6
25°	140.7
27.5°	138.7
30°	136.6
32.5°	134.5
35°	132.5
37.5°	130.3
40°	128.1
42.5°	125.3
45°	121.9
47.5°	117.5
50°	112.5
52.5°	107.0
55°	100.8
57.5°	94.2
60°	87.4
62.5°	80.1
65°	72.5
67.5°	64.8
70°	56.7
72.5°	48.9
75°	41.1
77.5°	33.5
80°	26.2
82.5°	19.4
85°	13.0
87.5°	7.4
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	12.27	13.98	12.64	14.30	14.61	12.27	13.98	12.64	14.30	14.61
	3H	14.24	15.79	14.61	16.12	16.47	14.24	15.79	14.61	16.12	16.47
	4H	15.00	16.46	15.39	16.81	17.18	15.00	16.46	15.39	16.81	17.18
	6H	15.59	16.96	16.00	17.32	17.71	15.59	16.96	16.00	17.32	17.71
	8H	15.81	17.12	16.24	17.51	17.90	15.81	17.12	16.24	17.51	17.90
	12H	15.98	17.24	16.41	17.62	18.05	15.98	17.24	16.41	17.62	18.05
4H	2H	12.97	14.43	13.36	14.78	15.15	12.97	14.43	13.36	14.78	15.15
	3H	15.15	16.39	15.56	16.78	17.18	15.15	16.39	15.56	16.78	17.18
	4H	16.04	17.17	16.47	17.58	18.02	16.04	17.17	16.47	17.58	18.02
	6H	16.78	17.77	17.24	18.21	18.66	16.78	17.77	17.24	18.21	18.66
	8H	17.06	17.99	17.52	18.43	18.89	17.06	17.99	17.52	18.43	18.89
	12H	17.29	18.13	17.77	18.60	19.07	17.29	18.13	17.77	18.60	19.07
8H	4H	16.41	17.34	16.87	17.78	18.24	16.41	17.34	16.87	17.78	18.24
	6H	17.29	18.07	17.78	18.55	19.03	17.29	18.07	17.78	18.55	19.03
	8H	17.66	18.36	18.17	18.86	19.34	17.66	18.36	18.17	18.86	19.34
	12H	17.99	18.61	18.49	19.10	19.65	17.99	18.61	18.49	19.10	19.65
12H	4H	16.46	17.30	16.94	17.77	18.24	16.46	17.30	16.94	17.77	18.24
	6H	17.37	18.07	17.88	18.58	19.06	17.37	18.07	17.88	18.58	19.06
	8H	17.81	18.43	18.32	18.92	19.48	17.81	18.43	18.32	18.92	19.48