

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: P866698

Luminaire Tested: PRLX-2001-L-927-32L-G-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866698  
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-927-32L-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 2  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

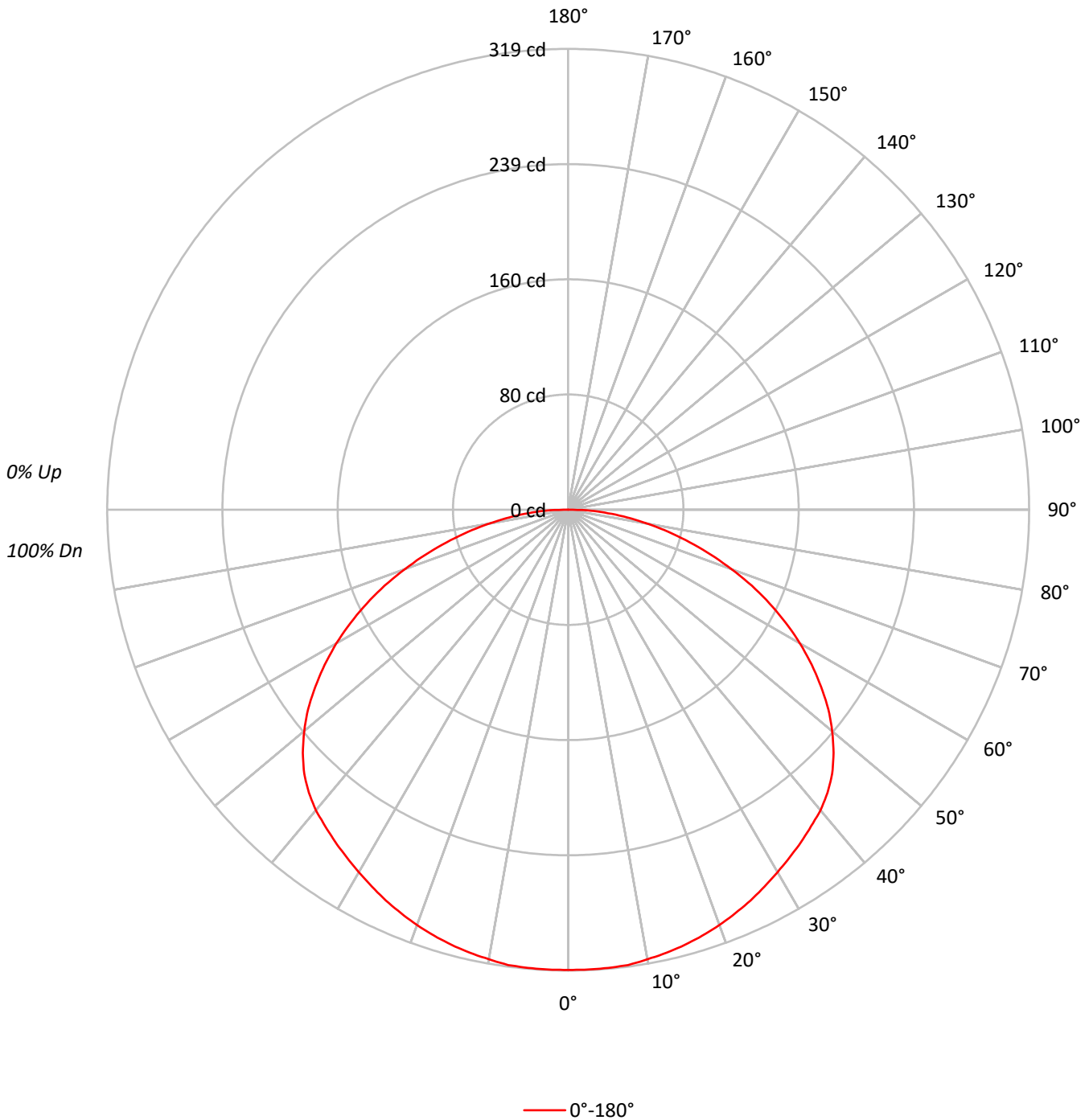
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1096.6 lumens  
Efficiency: N/A  
Efficacy: 42.0 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): 26.1  
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	108	103	98	94	105	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

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

	0°
0°	1742
5°	1747
10°	1754
15°	1765
20°	1780
25°	1801
30°	1829
35°	1875
40°	1938
45°	1998
50°	2028
55°	2037
60°	2026
65°	1990
70°	1921
75°	1840
80°	1750
85°	1737

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 2038 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.3	2.8
10°-20°	88.2	8.0
20°-30°	137.8	12.6
30°-40°	176.2	16.1
40°-50°	198.7	18.1
50°-60°	190.7	17.4
60°-70°	151.9	13.9
70°-80°	92.2	8.4
80°-90°	30.6	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°	256.3	23.4
0°-40°	432.4	39.4
0°-60°	821.9	74.9
0°-90°	1096.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1096.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	319	
5°	318	30
15°	312	88
25°	298	138
35°	281	176
45°	258	199
55°	214	191
65°	154	152
75°	87	92
85°	28	31
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	318.6
2.5°	318.6
5°	318.4
7.5°	317.9
10°	316.0
12.5°	314.2
15°	311.9
17.5°	309.1
20°	306.0
22.5°	302.3
25°	298.5
27.5°	294.1
30°	289.7
32.5°	285.3
35°	280.9
37.5°	276.2
40°	271.6
42.5°	265.7
45°	258.4
47.5°	249.1
50°	238.5
52.5°	226.9
55°	213.7
57.5°	199.8
60°	185.3
62.5°	169.8
65°	153.8
67.5°	137.5
70°	120.2
72.5°	103.6
75°	87.1
77.5°	71.1
80°	55.6
82.5°	41.1
85°	27.7
87.5°	15.8
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	14.89	16.60	15.25	16.91	17.23	14.89	16.60	15.25	16.91	17.23
	3H	16.85	18.40	17.22	18.73	19.09	16.85	18.40	17.22	18.73	19.09
	4H	17.61	19.08	18.00	19.42	19.80	17.61	19.08	18.00	19.42	19.80
	6H	18.21	19.57	18.62	19.93	20.32	18.21	19.57	18.62	19.93	20.32
	8H	18.42	19.73	18.85	20.12	20.52	18.42	19.73	18.85	20.12	20.52
	12H	18.60	19.85	19.03	20.23	20.66	18.60	19.85	19.03	20.23	20.66
4H	2H	15.58	17.05	15.98	17.39	17.77	15.58	17.05	15.98	17.39	17.77
	3H	17.76	19.00	18.17	19.40	19.79	17.76	19.00	18.17	19.40	19.79
	4H	18.66	19.78	19.09	20.19	20.63	18.66	19.78	19.09	20.19	20.63
	6H	19.40	20.39	19.85	20.82	21.28	19.40	20.39	19.85	20.82	21.28
	8H	19.67	20.60	20.13	21.04	21.51	19.67	20.60	20.13	21.04	21.51
	12H	19.91	20.74	20.38	21.22	21.68	19.91	20.74	20.38	21.22	21.68
8H	4H	19.02	19.95	19.48	20.39	20.85	19.02	19.95	19.48	20.39	20.85
	6H	19.90	20.68	20.39	21.17	21.64	19.90	20.68	20.39	21.17	21.64
	8H	20.27	20.97	20.78	21.47	21.96	20.27	20.97	20.78	21.47	21.96
	12H	20.60	21.22	21.11	21.71	22.27	20.60	21.22	21.11	21.71	22.27
12H	4H	19.07	19.91	19.55	20.38	20.85	19.07	19.91	19.55	20.38	20.85
	6H	19.99	20.69	20.49	21.19	21.67	19.99	20.69	20.49	21.19	21.67
	8H	20.42	21.04	20.93	21.53	22.09	20.42	21.04	20.93	21.53	22.09