

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: P865909

Luminaire Tested: PRLX-2001-M-927-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-927-25L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

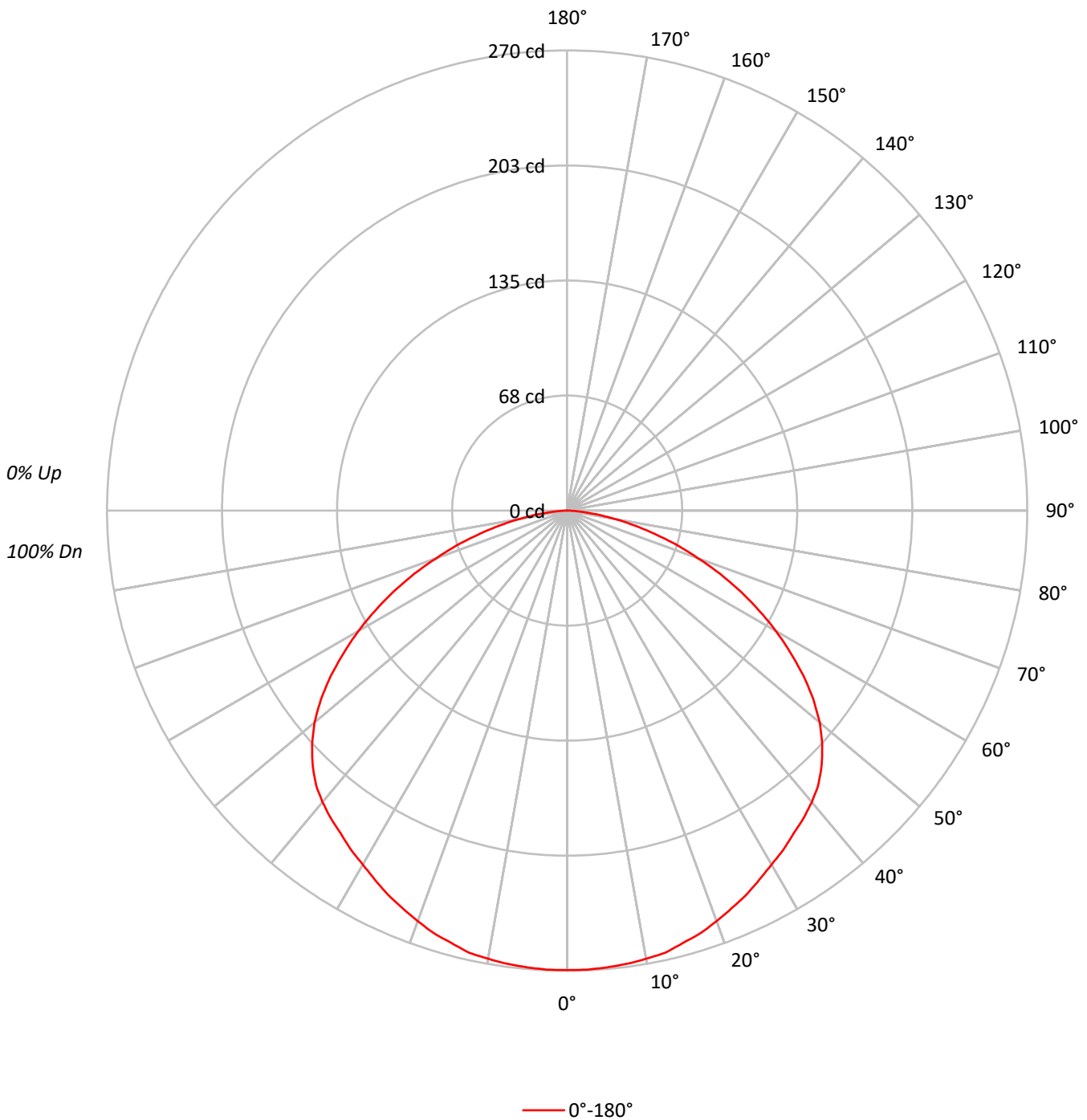
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 853.0 lumens  
Efficiency: N/A  
Efficacy: 39.3 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.7  
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	109	104	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

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

	0°
0°	2288
5°	2291
10°	2301
15°	2307
20°	2315
25°	2329
30°	2350
35°	2398
40°	2474
45°	2535
50°	2555
55°	2506
60°	2402
65°	2255
70°	2030
75°	1748
80°	1393
85°	867

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 2555 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.6	3.0
10°-20°	74.3	8.7
20°-30°	114.7	13.5
30°-40°	145.3	17.0
40°-50°	162.5	19.0
50°-60°	150.8	17.7
60°-70°	110.8	13.0
70°-80°	57.2	6.7
80°-90°	11.8	1.4
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°	214.6	25.2
0°-40°	360.0	42.2
0°-60°	673.2	78.9
0°-90°	853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	853.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	270	
5°	269	26
15°	263	74
25°	249	115
35°	232	145
45°	211	162
55°	169	151
65°	112	111
75°	53	57
85°	9	12
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	269.6
2.5°	269.6
5°	269.0
7.5°	268.3
10°	267.0
12.5°	265.8
15°	262.6
17.5°	260.1
20°	256.3
22.5°	252.5
25°	248.7
27.5°	244.2
30°	239.8
32.5°	236.0
35°	231.5
37.5°	227.7
40°	223.3
42.5°	218.2
45°	211.2
47.5°	203.0
50°	193.5
52.5°	182.1
55°	169.4
57.5°	155.4
60°	141.5
62.5°	126.9
65°	112.3
67.5°	97.1
70°	81.8
72.5°	67.9
75°	53.3
77.5°	40.6
80°	28.5
82.5°	17.8
85°	8.9
87.5°	2.5
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	15.59	17.25	15.95	17.57	17.88	15.59	17.25	15.95	17.57	17.88
	3H	17.23	18.74	17.60	19.06	19.42	17.23	18.74	17.60	19.06	19.42
	4H	17.77	19.19	18.17	19.54	19.92	17.77	19.19	18.17	19.54	19.92
	6H	18.12	19.43	18.53	19.80	20.19	18.12	19.43	18.53	19.80	20.19
	8H	18.20	19.46	18.62	19.84	20.24	18.20	19.46	18.62	19.84	20.24
	12H	18.23	19.44	18.66	19.82	20.25	18.23	19.44	18.66	19.82	20.25
4H	2H	16.20	17.62	16.59	17.96	18.34	16.20	17.62	16.59	17.96	18.34
	3H	18.04	19.22	18.45	19.62	20.02	18.04	19.22	18.45	19.62	20.02
	4H	18.69	19.76	19.12	20.18	20.61	18.69	19.76	19.12	20.18	20.61
	6H	19.14	20.07	19.59	20.51	20.97	19.14	20.07	19.59	20.51	20.97
	8H	19.25	20.12	19.71	20.57	21.03	19.25	20.12	19.71	20.57	21.03
	12H	19.31	20.10	19.79	20.57	21.04	19.31	20.10	19.79	20.57	21.04
8H	4H	18.94	19.82	19.40	20.26	20.72	18.94	19.82	19.40	20.26	20.72
	6H	19.47	20.20	19.97	20.69	21.16	19.47	20.20	19.97	20.69	21.16
	8H	19.63	20.28	20.14	20.79	21.27	19.63	20.28	20.14	20.79	21.27
	12H	19.73	20.30	20.23	20.79	21.35	19.73	20.30	20.23	20.79	21.35
12H	4H	18.96	19.75	19.44	20.22	20.69	18.96	19.75	19.44	20.22	20.69
	6H	19.50	20.15	20.01	20.66	21.14	19.50	20.15	20.01	20.66	21.14
	8H	19.70	20.27	20.20	20.76	21.32	19.70	20.27	20.20	20.76	21.32