

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: P865925

Luminaire Tested: PRLX-2001-M-927-45L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865925  
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-927-45L-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 5  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

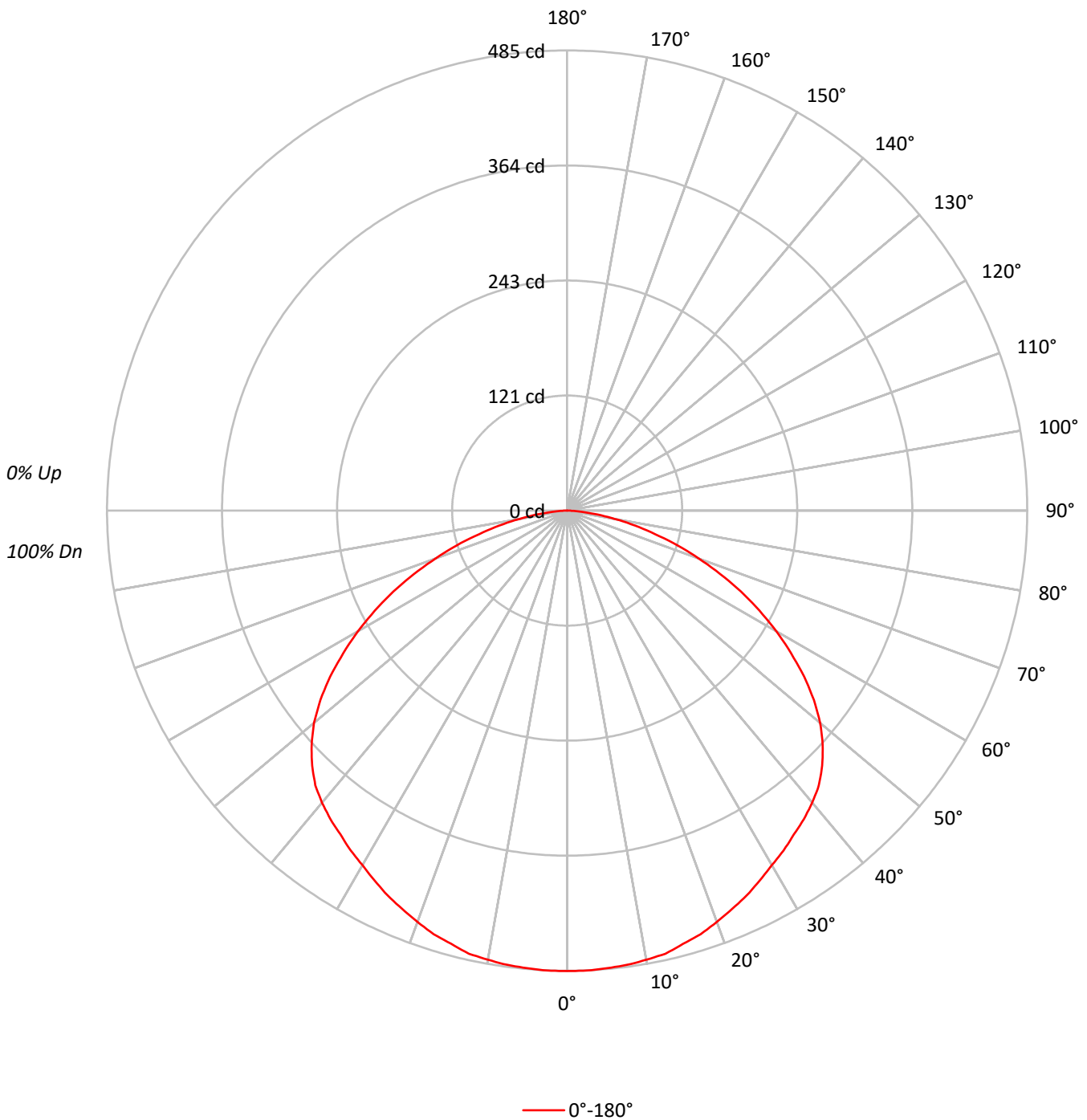
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1535.3 lumens  
Efficiency: N/A  
Efficacy: 39.6 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): 38.8  
Input Voltage (V): 120  
Input Current (Ain): 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°	4118
5°	4124
10°	4142
15°	4153
20°	4166
25°	4191
30°	4229
35°	4317
40°	4452
45°	4563
50°	4597
55°	4511
60°	4321
65°	4058
70°	3655
75°	3144
80°	2512
85°	1558

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 4597 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	3.0
10°-20°	133.7	8.7
20°-30°	206.5	13.5
30°-40°	261.6	17.0
40°-50°	292.5	19.0
50°-60°	271.4	17.7
60°-70°	199.4	13.0
70°-80°	102.9	6.7
80°-90°	21.3	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°	386.3	25.2
0°-40°	647.9	42.2
0°-60°	1211.8	78.9
0°-90°	1535.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1535.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	485	
5°	484	46
15°	473	134
25°	448	207
35°	417	262
45°	380	292
55°	305	271
65°	202	199
75°	96	103
85°	16	21
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	485.3
2.5°	485.3
5°	484.1
7.5°	483.0
10°	480.7
12.5°	478.4
15°	472.7
17.5°	468.1
20°	461.3
22.5°	454.4
25°	447.6
27.5°	439.6
30°	431.6
32.5°	424.7
35°	416.7
37.5°	409.9
40°	401.9
42.5°	392.8
45°	380.2
47.5°	365.4
50°	348.2
52.5°	327.7
55°	304.9
57.5°	279.7
60°	254.6
62.5°	228.4
65°	202.1
67.5°	174.7
70°	147.3
72.5°	122.2
75°	95.9
77.5°	73.1
80°	51.4
82.5°	32.0
85°	16.0
87.5°	4.6
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	17.63	19.30	17.99	19.61	19.93	17.63	19.30	17.99	19.61	19.93
	3H	19.27	20.78	19.65	21.10	21.46	19.27	20.78	19.65	21.10	21.46
	4H	19.82	21.24	20.21	21.58	21.96	19.82	21.24	20.21	21.58	21.96
	6H	20.16	21.48	20.57	21.84	22.23	20.16	21.48	20.57	21.84	22.23
	8H	20.24	21.50	20.66	21.89	22.28	20.24	21.50	20.66	21.89	22.28
	12H	20.27	21.48	20.70	21.86	22.29	20.27	21.48	20.70	21.86	22.29
4H	2H	18.24	19.66	18.63	20.00	20.38	18.24	19.66	18.63	20.00	20.38
	3H	20.08	21.27	20.49	21.66	22.06	20.08	21.27	20.49	21.66	22.06
	4H	20.73	21.81	21.16	22.22	22.65	20.73	21.81	21.16	22.22	22.65
	6H	21.18	22.12	21.63	22.56	23.01	21.18	22.12	21.63	22.56	23.01
	8H	21.29	22.17	21.75	22.61	23.07	21.29	22.17	21.75	22.61	23.07
	12H	21.35	22.14	21.83	22.61	23.08	21.35	22.14	21.83	22.61	23.08
8H	4H	20.98	21.86	21.44	22.30	22.77	20.98	21.86	21.44	22.30	22.77
	6H	21.52	22.24	22.01	22.73	23.21	21.52	22.24	22.01	22.73	23.21
	8H	21.67	22.32	22.18	22.83	23.31	21.67	22.32	22.18	22.83	23.31
	12H	21.77	22.34	22.27	22.83	23.39	21.77	22.34	22.27	22.83	23.39
12H	4H	21.00	21.79	21.48	22.26	22.73	21.00	21.79	21.48	22.26	22.73
	6H	21.54	22.19	22.05	22.70	23.18	21.54	22.19	22.05	22.70	23.18
	8H	21.74	22.31	22.24	22.80	23.36	21.74	22.31	22.24	22.80	23.36