

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: P865945

Luminaire Tested: PRLX-2001-M-927-65L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-927-65L-L-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

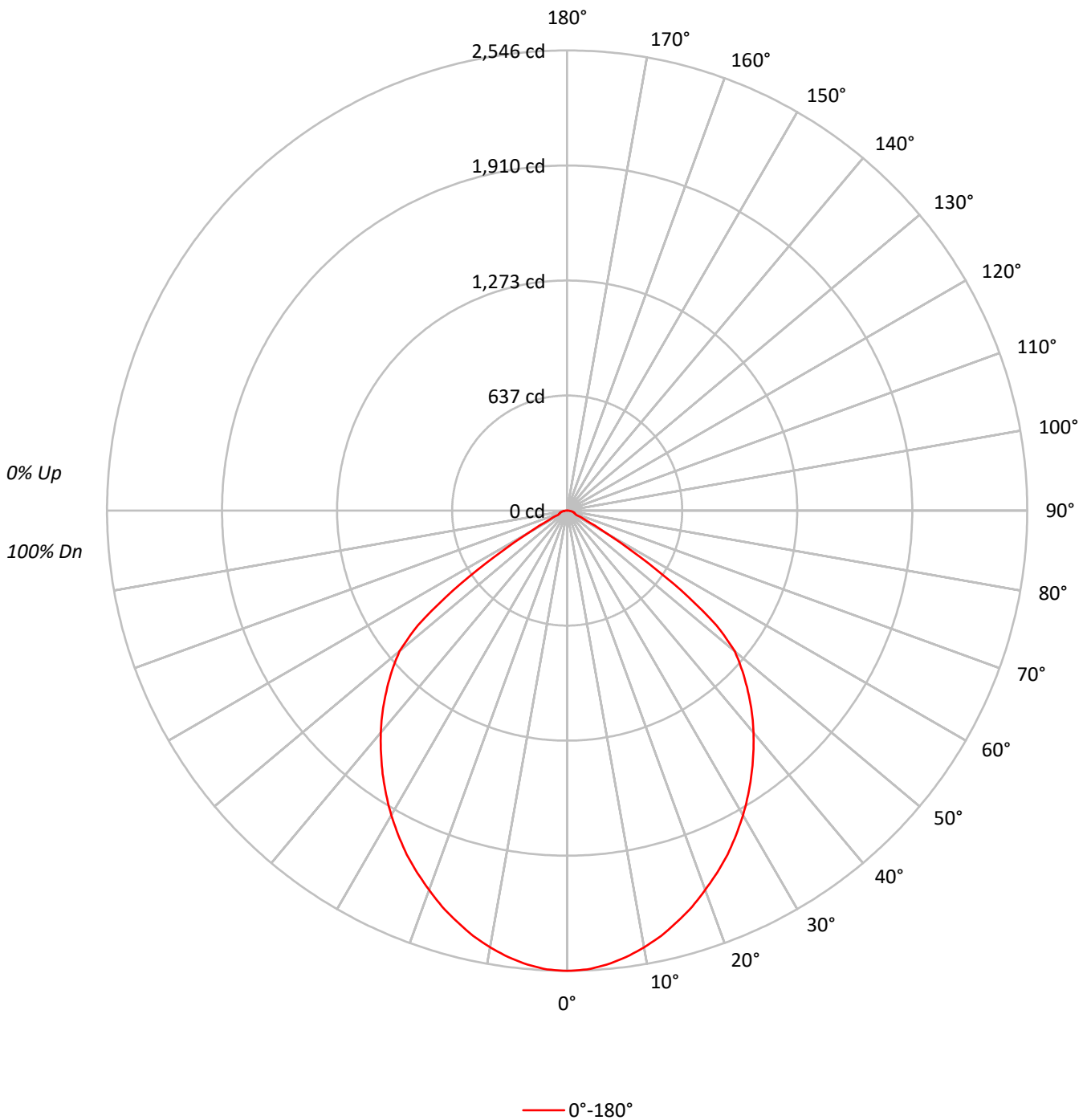
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4883.3 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.6  
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33

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

	0°
0°	21609
5°	21481
10°	21147
15°	20690
20°	20166
25°	19658
30°	19069
35°	18435
40°	17776
45°	16981
50°	15981
55°	11419
60°	4255
65°	1126
70°	1104
75°	1190
80°	1290
85°	1285

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16981 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.5	4.9
10°-20°	663.5	13.6
20°-30°	966.0	19.8
30°-40°	1112.5	22.8
40°-50°	1090.0	22.3
50°-60°	669.3	13.7
60°-70°	91.1	1.9
70°-80°	38.1	0.8
80°-90°	14.4	0.3
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°	1868.0	38.3
0°-40°	2980.5	61.0
0°-60°	4739.7	97.1
0°-90°	4883.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4883.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2546	
5°	2522	239
15°	2355	663
25°	2100	966
35°	1780	1113
45°	1415	1090
55°	772	669
65°	56	91
75°	36	38
85°	13	14
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2546.4
2.5°	2541.5
5°	2521.7
7.5°	2492.0
10°	2454.1
12.5°	2409.5
15°	2355.1
17.5°	2299.0
20°	2233.1
22.5°	2168.8
25°	2099.5
27.5°	2023.6
30°	1946.1
32.5°	1863.6
35°	1779.5
37.5°	1692.1
40°	1604.7
42.5°	1512.4
45°	1415.0
47.5°	1316.1
50°	1210.5
52.5°	1040.7
55°	771.8
57.5°	479.9
60°	250.7
62.5°	122.0
65°	56.1
67.5°	46.2
70°	44.5
72.5°	41.2
75°	36.3
77.5°	31.3
80°	26.4
82.5°	19.8
85°	13.2
87.5°	6.6
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	17.50	18.90	17.86	19.21	19.52	17.50	18.90	17.86	19.21	19.52
	3H	17.44	18.67	17.82	19.00	19.36	17.44	18.67	17.82	19.00	19.36
	4H	17.42	18.56	17.82	18.91	19.29	17.42	18.56	17.82	18.91	19.29
	6H	17.41	18.45	17.82	18.82	19.22	17.41	18.45	17.82	18.82	19.22
	8H	17.40	18.39	17.82	18.78	19.18	17.40	18.39	17.82	18.78	19.18
	12H	17.38	18.33	17.81	18.71	19.14	17.38	18.33	17.81	18.71	19.14
4H	2H	17.34	18.48	17.74	18.83	19.21	17.34	18.48	17.74	18.83	19.21
	3H	17.31	18.23	17.72	18.63	19.04	17.31	18.23	17.72	18.63	19.04
	4H	17.31	18.13	17.74	18.55	18.99	17.31	18.13	17.74	18.55	18.99
	6H	17.33	18.04	17.80	18.48	18.95	17.33	18.04	17.80	18.48	18.95
	8H	17.33	17.99	17.80	18.43	18.91	17.33	17.99	17.80	18.43	18.91
	12H	17.33	17.91	17.81	18.39	18.87	17.33	17.91	17.81	18.39	18.87
8H	4H	17.22	17.88	17.69	18.33	18.80	17.22	17.88	17.69	18.33	18.80
	6H	17.26	17.81	17.76	18.30	18.78	17.26	17.81	17.76	18.30	18.78
	8H	17.27	17.77	17.79	18.28	18.77	17.27	17.77	17.79	18.28	18.77
	12H	17.29	17.74	17.81	18.23	18.80	17.29	17.74	17.81	18.23	18.80
12H	4H	17.19	17.77	17.67	18.25	18.73	17.19	17.77	17.67	18.25	18.73
	6H	17.22	17.71	17.74	18.22	18.72	17.22	17.71	17.74	18.22	18.72
	8H	17.26	17.70	17.77	18.20	18.76	17.26	17.70	17.77	18.20	18.76