

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: P866665

Luminaire Tested: PRLX-2001-L-927-100L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-927-100L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

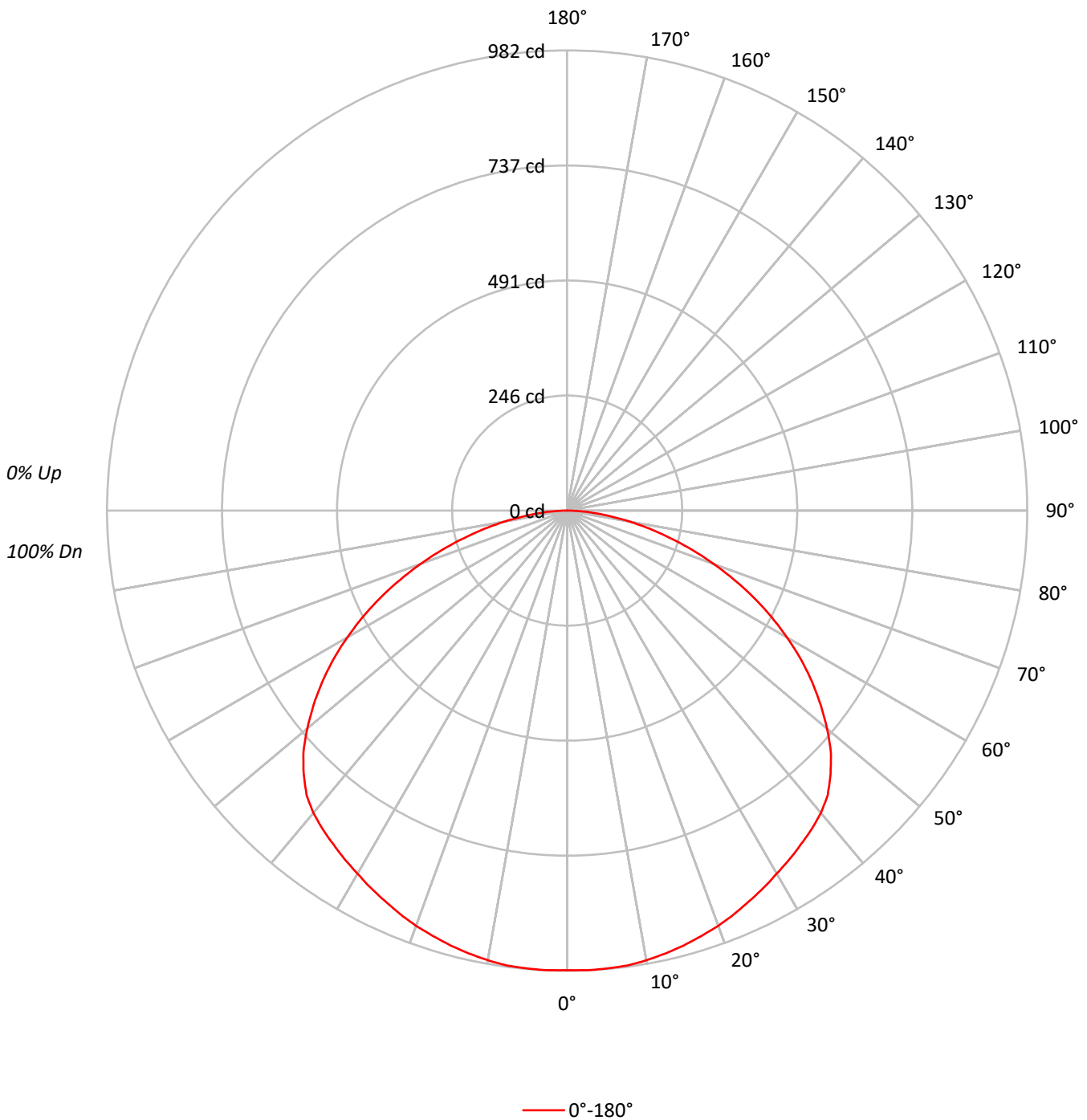
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3259.7 lumens  
Efficiency: N/A  
Efficacy: 41.1 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 79.4  
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: 0.333 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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	40	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		34	28	24	22

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

	0°
0°	5362
5°	5383
10°	5409
15°	5438
20°	5487
25°	5548
30°	5648
35°	5805
40°	6012
45°	6146
50°	6159
55°	6082
60°	5929
65°	5683
70°	5311
75°	4826
80°	4282
85°	3481

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 6179 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.4	2.9
10°-20°	271.6	8.3
20°-30°	425.0	13.0
30°-40°	545.6	16.7
40°-50°	611.6	18.8
50°-60°	569.5	17.5
60°-70°	434.0	13.3
70°-80°	243.7	7.5
80°-90°	65.3	2.0
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°	790.0	24.2
0°-40°	1335.7	41.0
0°-60°	2516.7	77.2
0°-90°	3259.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3259.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	981	
5°	981	93
15°	961	272
25°	920	425
35°	870	546
45°	795	612
55°	638	569
65°	439	434
75°	228	244
85°	56	65
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	980.9
2.5°	981.7
5°	980.9
7.5°	979.3
10°	974.4
12.5°	968.0
15°	960.8
17.5°	951.9
20°	943.1
22.5°	931.8
25°	919.7
27.5°	907.7
30°	894.8
32.5°	882.7
35°	869.8
37.5°	857.0
40°	842.5
42.5°	823.2
45°	795.0
47.5°	763.6
50°	724.2
52.5°	682.3
55°	638.1
57.5°	592.2
60°	542.3
62.5°	491.6
65°	439.3
67.5°	386.2
70°	332.3
72.5°	280.8
75°	228.5
77.5°	181.0
80°	136.0
82.5°	92.5
85°	55.5
87.5°	24.1
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	18.68	20.36	19.04	20.68	20.99	18.68	20.36	19.04	20.68	20.99
	3H	20.46	21.99	20.84	22.31	22.67	20.46	21.99	20.84	22.31	22.67
	4H	21.11	22.55	21.50	22.89	23.27	21.11	22.55	21.50	22.89	23.27
	6H	21.57	22.91	21.98	23.27	23.66	21.57	22.91	21.98	23.27	23.66
	8H	21.72	22.99	22.14	23.38	23.78	21.72	22.99	22.14	23.38	23.78
	12H	21.81	23.03	22.24	23.41	23.84	21.81	23.03	22.24	23.41	23.84
4H	2H	19.32	20.76	19.72	21.11	21.48	19.32	20.76	19.72	21.11	21.48
	3H	21.32	22.53	21.72	22.92	23.32	21.32	22.53	21.72	22.92	23.32
	4H	22.08	23.18	22.51	23.59	24.03	22.08	23.18	22.51	23.59	24.03
	6H	22.68	23.64	23.13	24.08	24.53	22.68	23.64	23.13	24.08	24.53
	8H	22.86	23.76	23.32	24.20	24.67	22.86	23.76	23.32	24.20	24.67
	12H	23.00	23.81	23.48	24.28	24.75	23.00	23.81	23.48	24.28	24.75
8H	4H	22.39	23.29	22.85	23.73	24.20	22.39	23.29	22.85	23.73	24.20
	6H	23.10	23.85	23.59	24.33	24.81	23.10	23.85	23.59	24.33	24.81
	8H	23.35	24.03	23.86	24.53	25.01	23.35	24.03	23.86	24.53	25.01
	12H	23.55	24.15	24.06	24.64	25.20	23.55	24.15	24.06	24.64	25.20
12H	4H	22.43	23.24	22.90	23.71	24.18	22.43	23.24	22.90	23.71	24.18
	6H	23.15	23.83	23.66	24.33	24.81	23.15	23.83	23.66	24.33	24.81
	8H	23.46	24.06	23.97	24.55	25.10	23.46	24.06	23.97	24.55	25.10