

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: P866670

Luminaire Tested: PRLX-2001-L-927-117L-L-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866670  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-927-117L-L-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

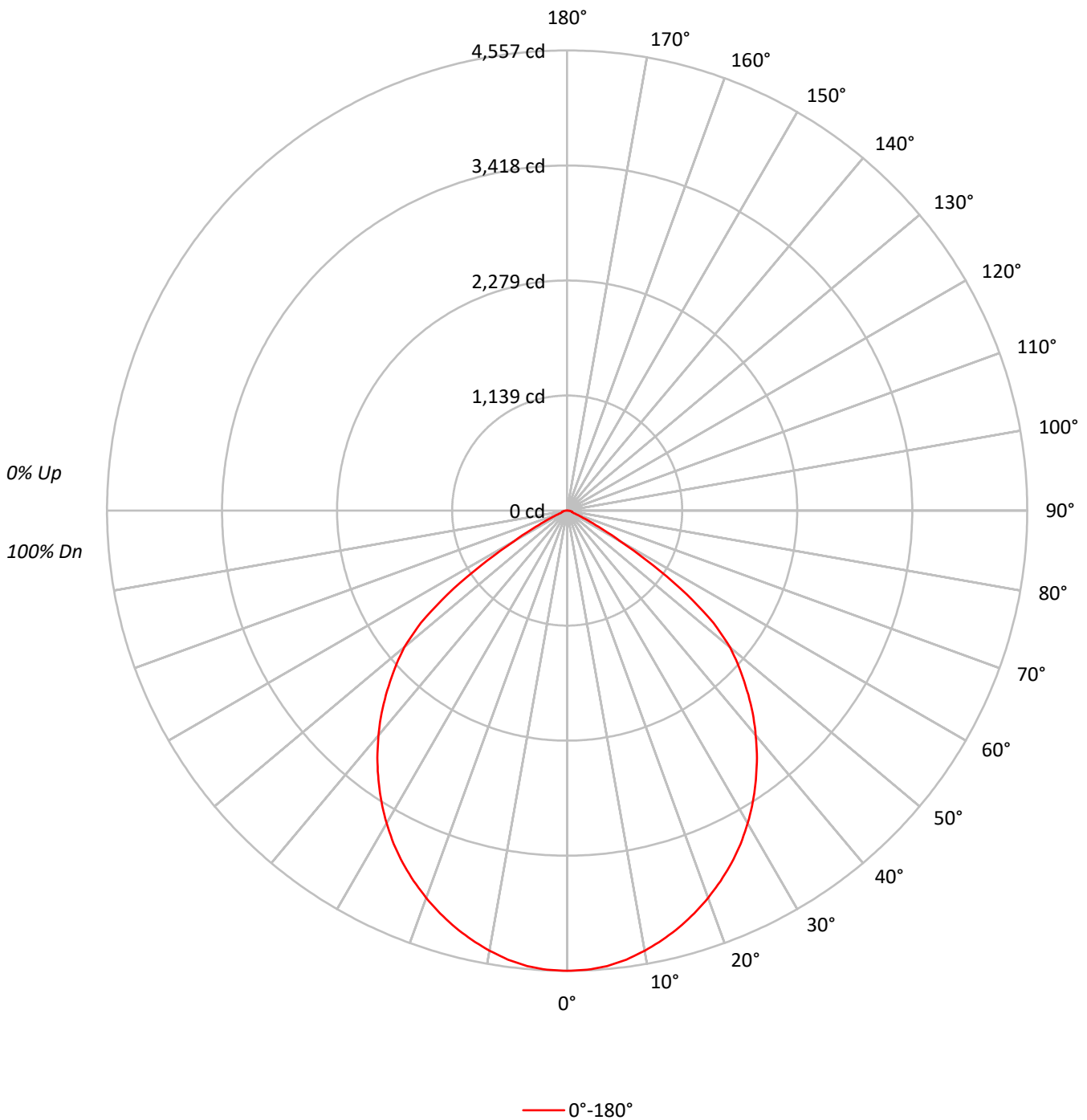
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8950.9 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65		73	68	64		71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44	38	34	33

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

	0°
0°	24915
5°	24844
10°	24572
15°	24200
20°	23748
25°	23232
30°	22578
35°	21747
40°	20735
45°	19473
50°	17891
55°	13815
60°	6678
65°	2520
70°	993
75°	1094
80°	1244
85°	1418

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19473 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.9	4.8
10°-20°	1204.7	13.5
20°-30°	1771.9	19.8
30°-40°	2035.0	22.7
40°-50°	1939.9	21.7
50°-60°	1252.3	14.0
60°-70°	240.6	2.7
70°-80°	54.2	0.6
80°-90°	23.3	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°	3405.6	38.0
0°-40°	5440.6	60.8
0°-60°	8632.8	96.4
0°-90°	8950.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8950.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4557	
5°	4527	429
15°	4276	1205
25°	3852	1772
35°	3258	2035
45°	2519	1940
55°	1450	1252
65°	195	241
75°	52	54
85°	23	23
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4557.4
2.5°	4551.7
5°	4527.2
7.5°	4485.8
10°	4426.5
12.5°	4355.9
15°	4275.9
17.5°	4183.7
20°	4082.0
22.5°	3970.0
25°	3851.5
27.5°	3720.6
30°	3576.6
32.5°	3422.3
35°	3258.5
37.5°	3088.1
40°	2905.5
42.5°	2722.0
45°	2518.7
47.5°	2318.2
50°	2103.6
52.5°	1826.0
55°	1449.5
57.5°	1009.9
60°	610.8
62.5°	350.1
65°	194.8
67.5°	101.7
70°	62.1
72.5°	56.5
75°	51.8
77.5°	46.1
80°	39.5
82.5°	32.0
85°	22.6
87.5°	11.3
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	19.08	20.48	19.44	20.79	21.10	19.08	20.48	19.44	20.79	21.10
	3H	19.00	20.23	19.38	20.56	20.93	19.00	20.23	19.38	20.56	20.93
	4H	18.95	20.10	19.36	20.45	20.83	18.95	20.10	19.36	20.45	20.83
	6H	18.91	19.96	19.32	20.33	20.72	18.91	19.96	19.32	20.33	20.72
	8H	18.89	19.88	19.31	20.27	20.68	18.89	19.88	19.31	20.27	20.68
	12H	18.86	19.81	19.29	20.20	20.63	18.86	19.81	19.29	20.20	20.63
4H	2H	18.96	20.10	19.36	20.45	20.83	18.96	20.10	19.36	20.45	20.83
	3H	18.90	19.82	19.31	20.22	20.63	18.90	19.82	19.31	20.22	20.63
	4H	18.85	19.67	19.28	20.09	20.53	18.85	19.67	19.28	20.09	20.53
	6H	18.82	19.53	19.29	19.98	20.44	18.82	19.53	19.29	19.98	20.44
	8H	18.80	19.46	19.27	19.91	20.38	18.80	19.46	19.27	19.91	20.38
	12H	18.78	19.37	19.27	19.85	20.32	18.78	19.37	19.27	19.85	20.32
8H	4H	18.74	19.40	19.21	19.85	20.32	18.74	19.40	19.21	19.85	20.32
	6H	18.71	19.26	19.21	19.75	20.23	18.71	19.26	19.21	19.75	20.23
	8H	18.69	19.18	19.21	19.70	20.19	18.69	19.18	19.21	19.70	20.19
	12H	18.69	19.13	19.20	19.63	20.20	18.69	19.13	19.20	19.63	20.20
12H	4H	18.70	19.29	19.18	19.77	20.24	18.70	19.29	19.18	19.77	20.24
	6H	18.66	19.15	19.18	19.67	20.16	18.66	19.15	19.18	19.67	20.16
	8H	18.66	19.10	19.17	19.60	20.17	18.66	19.10	19.17	19.60	20.17