

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: P866715

Luminaire Tested: PRLX-2001-L-927-67L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-L-927-67L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

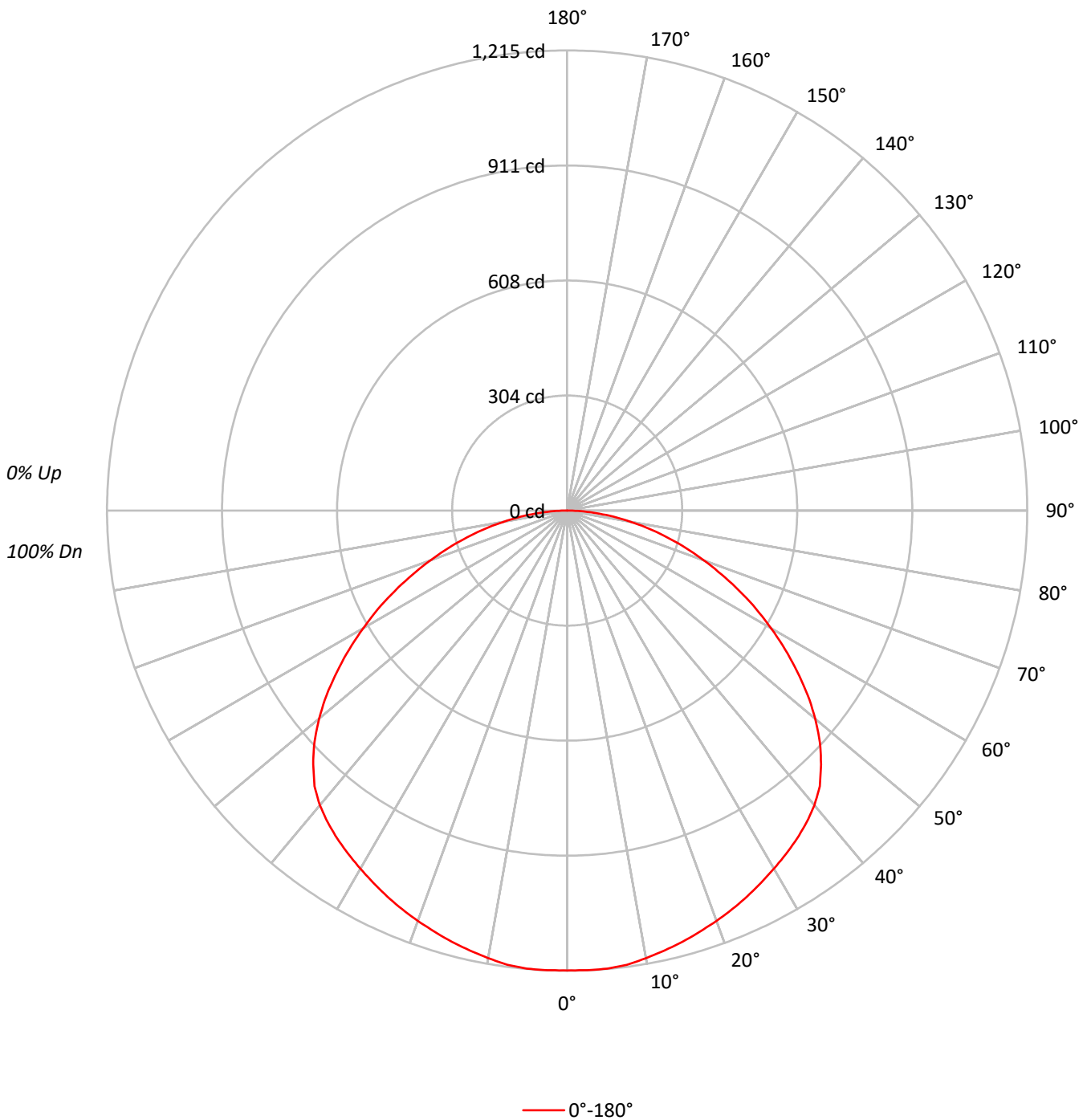
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3897.1 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 50.4  
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	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

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

	0°
0°	6637
5°	6662
10°	6660
15°	6669
20°	6707
25°	6781
30°	6892
35°	7060
40°	7249
45°	7332
50°	7273
55°	7067
60°	6800
65°	6491
70°	6143
75°	5771
80°	5371
85°	4798

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7332 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.4	3.0
10°-20°	333.1	8.5
20°-30°	519.2	13.3
30°-40°	662.6	17.0
40°-50°	729.4	18.7
50°-60°	662.7	17.0
60°-70°	497.2	12.8
70°-80°	290.6	7.5
80°-90°	87.0	2.2
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°	967.7	24.8
0°-40°	1630.3	41.8
0°-60°	3022.4	77.6
0°-90°	3897.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3897.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1214	
5°	1214	115
15°	1178	333
25°	1124	519
35°	1058	663
45°	948	729
55°	742	663
65°	502	497
75°	273	291
85°	76	87
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1214.0
2.5°	1214.6
5°	1214.0
7.5°	1209.8
10°	1199.7
12.5°	1189.6
15°	1178.4
17.5°	1165.7
20°	1152.9
22.5°	1139.1
25°	1124.2
27.5°	1108.3
30°	1091.8
32.5°	1075.3
35°	1057.8
37.5°	1038.1
40°	1015.8
42.5°	987.1
45°	948.3
47.5°	905.2
50°	855.2
52.5°	801.0
55°	741.5
57.5°	682.5
60°	621.9
62.5°	562.9
65°	501.8
67.5°	441.7
70°	384.3
72.5°	329.0
75°	273.2
77.5°	222.2
80°	170.6
82.5°	122.3
85°	76.5
87.5°	35.6
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	19.05	20.73	19.42	21.04	21.36	19.05	20.73	19.42	21.04	21.36
	3H	20.83	22.35	21.20	22.67	23.03	20.83	22.35	21.20	22.67	23.03
	4H	21.51	22.94	21.91	23.29	23.67	21.51	22.94	21.91	23.29	23.67
	6H	22.05	23.38	22.46	23.74	24.13	22.05	23.38	22.46	23.74	24.13
	8H	22.23	23.50	22.65	23.89	24.28	22.23	23.50	22.65	23.89	24.28
	12H	22.36	23.57	22.78	23.96	24.38	22.36	23.57	22.78	23.96	24.38
4H	2H	19.68	21.11	20.08	21.46	21.83	19.68	21.11	20.08	21.46	21.83
	3H	21.68	22.89	22.09	23.28	23.68	21.68	22.89	22.09	23.28	23.68
	4H	22.50	23.59	22.93	24.01	24.44	22.50	23.59	22.93	24.01	24.44
	6H	23.17	24.13	23.63	24.57	25.02	23.17	24.13	23.63	24.57	25.02
	8H	23.41	24.30	23.87	24.75	25.21	23.41	24.30	23.87	24.75	25.21
	12H	23.59	24.39	24.07	24.87	25.34	23.59	24.39	24.07	24.87	25.34
8H	4H	22.83	23.73	23.29	24.17	24.63	22.83	23.73	23.29	24.17	24.63
	6H	23.64	24.38	24.13	24.87	25.34	23.64	24.38	24.13	24.87	25.34
	8H	23.95	24.62	24.46	25.13	25.61	23.95	24.62	24.46	25.13	25.61
	12H	24.21	24.81	24.72	25.30	25.85	24.21	24.81	24.72	25.30	25.85
12H	4H	22.88	23.68	23.35	24.16	24.62	22.88	23.68	23.35	24.16	24.62
	6H	23.70	24.38	24.21	24.88	25.36	23.70	24.38	24.21	24.88	25.36
	8H	24.08	24.68	24.59	25.17	25.72	24.08	24.68	24.59	25.17	25.72