

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: P866866

Luminaire Tested: PRLX-2001-L-940-117L-G-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-L-940-117L-G-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

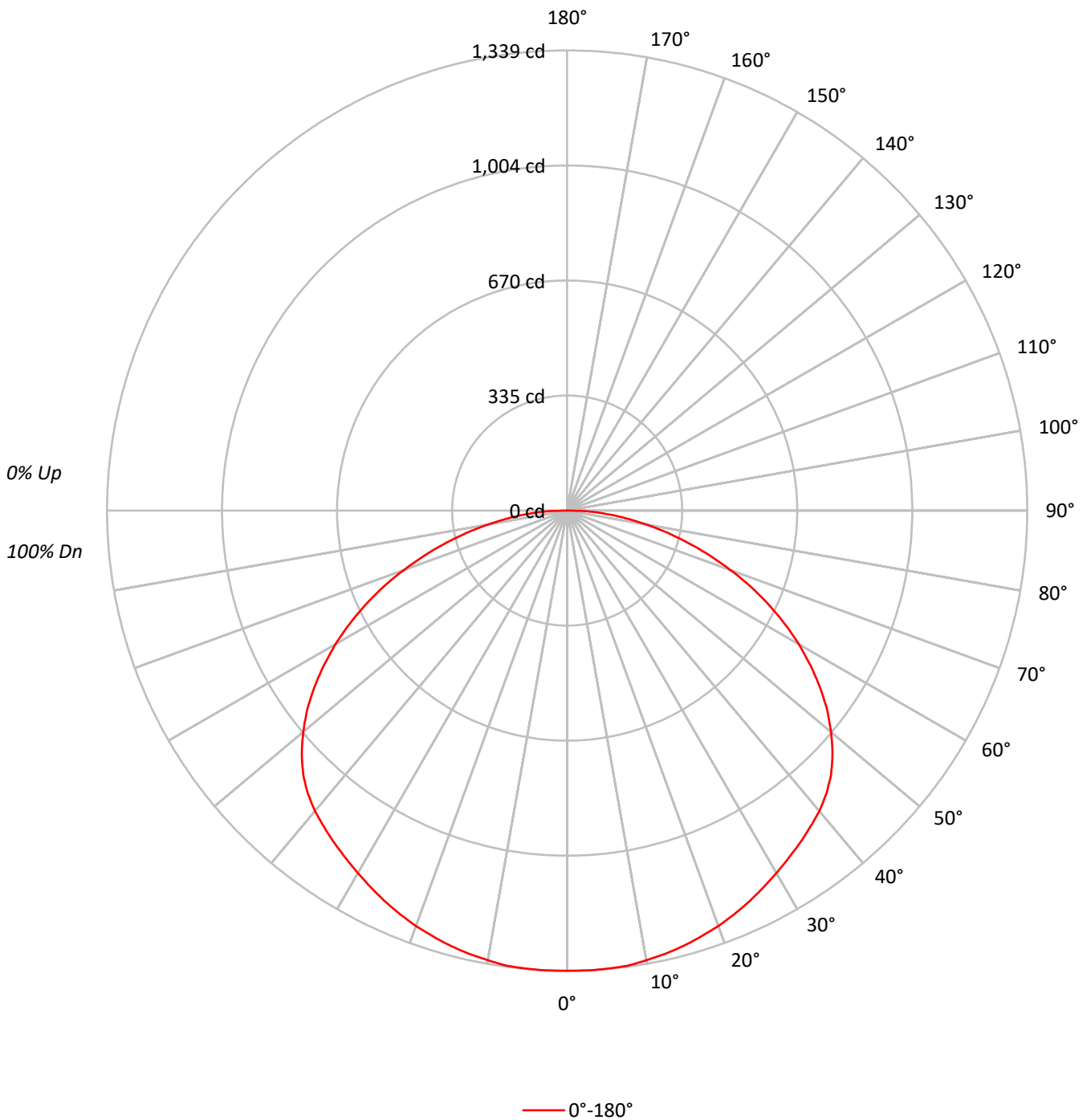
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4609.6 lumens  
Efficiency: N/A  
Efficacy: 48.4 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
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	108	103	98	94	105	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

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

	0°
0°	7322
5°	7344
10°	7375
15°	7421
20°	7483
25°	7568
30°	7687
35°	7880
40°	8148
45°	8399
50°	8528
55°	8563
60°	8516
65°	8362
70°	8074
75°	7733
80°	7354
85°	7289

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 8565 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.5	2.8
10°-20°	370.6	8.0
20°-30°	579.3	12.6
30°-40°	740.5	16.1
40°-50°	835.4	18.1
50°-60°	801.6	17.4
60°-70°	638.5	13.9
70°-80°	387.7	8.4
80°-90°	128.5	2.8
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°	1077.4	23.4
0°-40°	1817.9	39.4
0°-60°	3454.9	75.0
0°-90°	4609.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4609.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1339	
5°	1338	127
15°	1311	371
25°	1255	579
35°	1181	741
45°	1086	835
55°	898	802
65°	646	639
75°	366	388
85°	116	128
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1339.4
2.5°	1339.4
5°	1338.3
7.5°	1336.2
10°	1328.6
12.5°	1321.0
15°	1311.2
17.5°	1299.2
20°	1286.2
22.5°	1271.0
25°	1254.7
27.5°	1236.2
30°	1217.8
32.5°	1199.3
35°	1180.8
37.5°	1161.3
40°	1141.7
42.5°	1116.7
45°	1086.3
47.5°	1047.2
50°	1002.7
52.5°	953.8
55°	898.4
57.5°	839.7
60°	778.9
62.5°	713.7
65°	646.4
67.5°	577.9
70°	505.1
72.5°	435.6
75°	366.1
77.5°	298.7
80°	233.6
82.5°	172.7
85°	116.2
87.5°	66.3
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	19.87	21.58	20.24	21.90	22.21	19.87	21.58	20.24	21.90	22.21
	3H	21.84	23.39	22.21	23.72	24.07	21.84	23.39	22.21	23.72	24.07
	4H	22.60	24.06	22.99	24.41	24.78	22.60	24.06	22.99	24.41	24.78
	6H	23.19	24.56	23.60	24.92	25.31	23.19	24.56	23.60	24.92	25.31
	8H	23.41	24.72	23.83	25.11	25.50	23.41	24.72	23.83	25.11	25.50
	12H	23.58	24.84	24.01	25.22	25.65	23.58	24.84	24.01	25.22	25.65
4H	2H	20.57	22.04	20.96	22.38	22.76	20.57	22.04	20.96	22.38	22.76
	3H	22.75	23.99	23.16	24.38	24.78	22.75	23.99	23.16	24.38	24.78
	4H	23.64	24.77	24.07	25.18	25.62	23.64	24.77	24.07	25.18	25.62
	6H	24.38	25.37	24.84	25.81	26.26	24.38	25.37	24.84	25.81	26.26
	8H	24.66	25.59	25.12	26.03	26.49	24.66	25.59	25.12	26.03	26.49
	12H	24.89	25.73	25.37	26.20	26.67	24.89	25.73	25.37	26.20	26.67
8H	4H	24.01	24.94	24.47	25.38	25.84	24.01	24.94	24.47	25.38	25.84
	6H	24.89	25.67	25.38	26.15	26.63	24.89	25.67	25.38	26.15	26.63
	8H	25.26	25.96	25.76	26.46	26.94	25.26	25.96	25.76	26.46	26.94
	12H	25.59	26.21	26.09	26.70	27.25	25.59	26.21	26.09	26.70	27.25
12H	4H	24.06	24.90	24.54	25.37	25.84	24.06	24.90	24.54	25.37	25.84
	6H	24.97	25.67	25.48	26.18	26.66	24.97	25.67	25.48	26.18	26.66
	8H	25.41	26.03	25.92	26.52	27.08	25.41	26.03	25.92	26.52	27.08