

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: P867343

Luminaire Tested: PRLX-2004-L-935-48L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-L-935-48L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

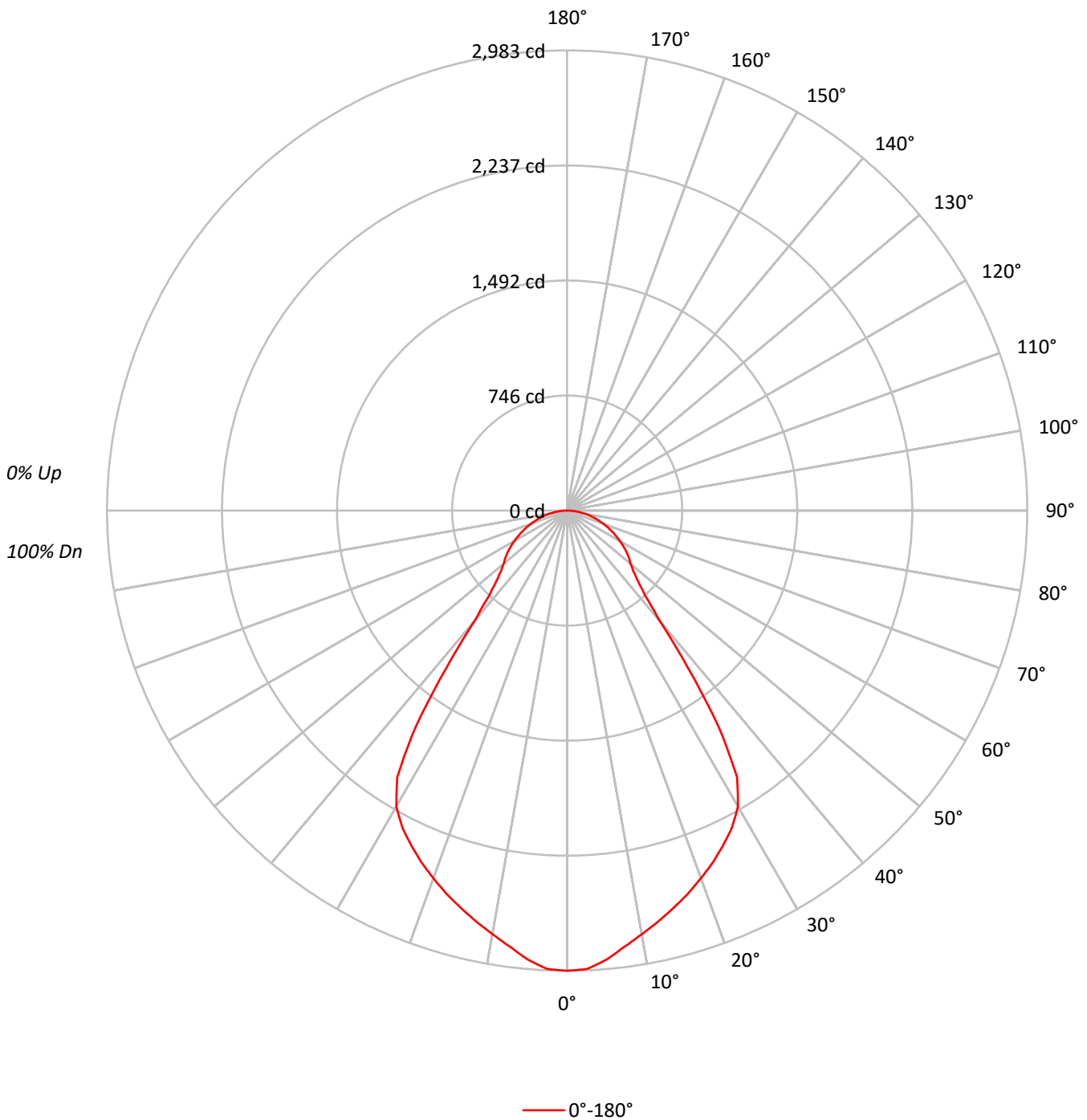
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4664.2 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.5  
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	111	107	103	100	108	105	101	98	100	98	95		97	94	92		93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82		87	84	81		85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	89	79	71	66	87	77	70	65	75	69	64		73	68	63		71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58		67	61	57		65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37		47	41	37		46	41	37	35

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

	0°
0°	14719
5°	14470
10°	13968
15°	13619
20°	13316
25°	13029
30°	12618
35°	10331
40°	5999
45°	4537
50°	4123
55°	4053
60°	3909
65°	3752
70°	3603
75°	3447
80°	3302
85°	3164

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4537 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.4	5.9
10°-20°	751.8	16.1
20°-30°	1101.0	23.6
30°-40°	1023.7	21.9
40°-50°	521.6	11.2
50°-60°	419.6	9.0
60°-70°	318.6	6.8
70°-80°	191.9	4.1
80°-90°	61.7	1.3
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°	2127.2	45.6
0°-40°	3150.9	67.6
0°-60°	4092.1	87.7
0°-90°	4664.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4664.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2983	
5°	2922	274
15°	2666	752
25°	2393	1101
35°	1715	1024
45°	650	522
55°	471	420
65°	321	319
75°	181	192
85°	56	62
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2983.3
2.5°	2974.6
5°	2921.7
7.5°	2851.0
10°	2788.1
12.5°	2728.3
15°	2666.3
17.5°	2603.4
20°	2536.1
22.5°	2468.0
25°	2393.4
27.5°	2314.8
30°	2214.8
32.5°	2050.1
35°	1715.2
37.5°	1287.3
40°	931.4
42.5°	748.9
45°	650.2
47.5°	580.8
50°	537.1
52.5°	505.7
55°	471.2
57.5°	432.7
60°	396.1
62.5°	358.1
65°	321.4
67.5°	285.1
70°	249.8
72.5°	215.3
75°	180.8
77.5°	148.5
80°	116.2
82.5°	86.0
85°	55.9
87.5°	26.6
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	15.32	16.68	15.69	16.99	17.30	15.32	16.68	15.69	16.99	17.30
	3H	17.12	18.33	17.50	18.66	19.03	17.12	18.33	17.50	18.66	19.03
	4H	17.83	18.96	18.23	19.31	19.70	17.83	18.96	18.23	19.31	19.70
	6H	18.39	19.44	18.80	19.81	20.20	18.39	19.44	18.80	19.81	20.20
	8H	18.59	19.58	19.02	19.97	20.38	18.59	19.58	19.02	19.97	20.38
	12H	18.73	19.69	19.17	20.07	20.50	18.73	19.69	19.17	20.07	20.50
4H	2H	15.91	17.04	16.31	17.40	17.78	15.91	17.04	16.31	17.40	17.78
	3H	17.93	18.88	18.34	19.28	19.68	17.93	18.88	18.34	19.28	19.68
	4H	18.77	19.62	19.20	20.04	20.48	18.77	19.62	19.20	20.04	20.48
	6H	19.47	20.21	19.93	20.65	21.12	19.47	20.21	19.93	20.65	21.12
	8H	19.72	20.41	20.19	20.86	21.33	19.72	20.41	20.19	20.86	21.33
	12H	19.92	20.53	20.41	21.01	21.49	19.92	20.53	20.41	21.01	21.49
8H	4H	19.08	19.77	19.54	20.21	20.68	19.08	19.77	19.54	20.21	20.68
	6H	19.92	20.48	20.42	20.98	21.46	19.92	20.48	20.42	20.98	21.46
	8H	20.27	20.77	20.78	21.28	21.78	20.27	20.77	20.78	21.28	21.78
	12H	20.56	21.00	21.07	21.50	22.07	20.56	21.00	21.07	21.50	22.07
12H	4H	19.10	19.72	19.59	20.20	20.67	19.10	19.72	19.59	20.20	20.67
	6H	19.98	20.49	20.50	21.00	21.49	19.98	20.49	20.50	21.00	21.49
	8H	20.40	20.84	20.91	21.33	21.90	20.40	20.84	20.91	21.33	21.90