

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: P866643

Luminaire Tested: PRLX-2004-M-940-55L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-M-940-55L-L-U-S-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

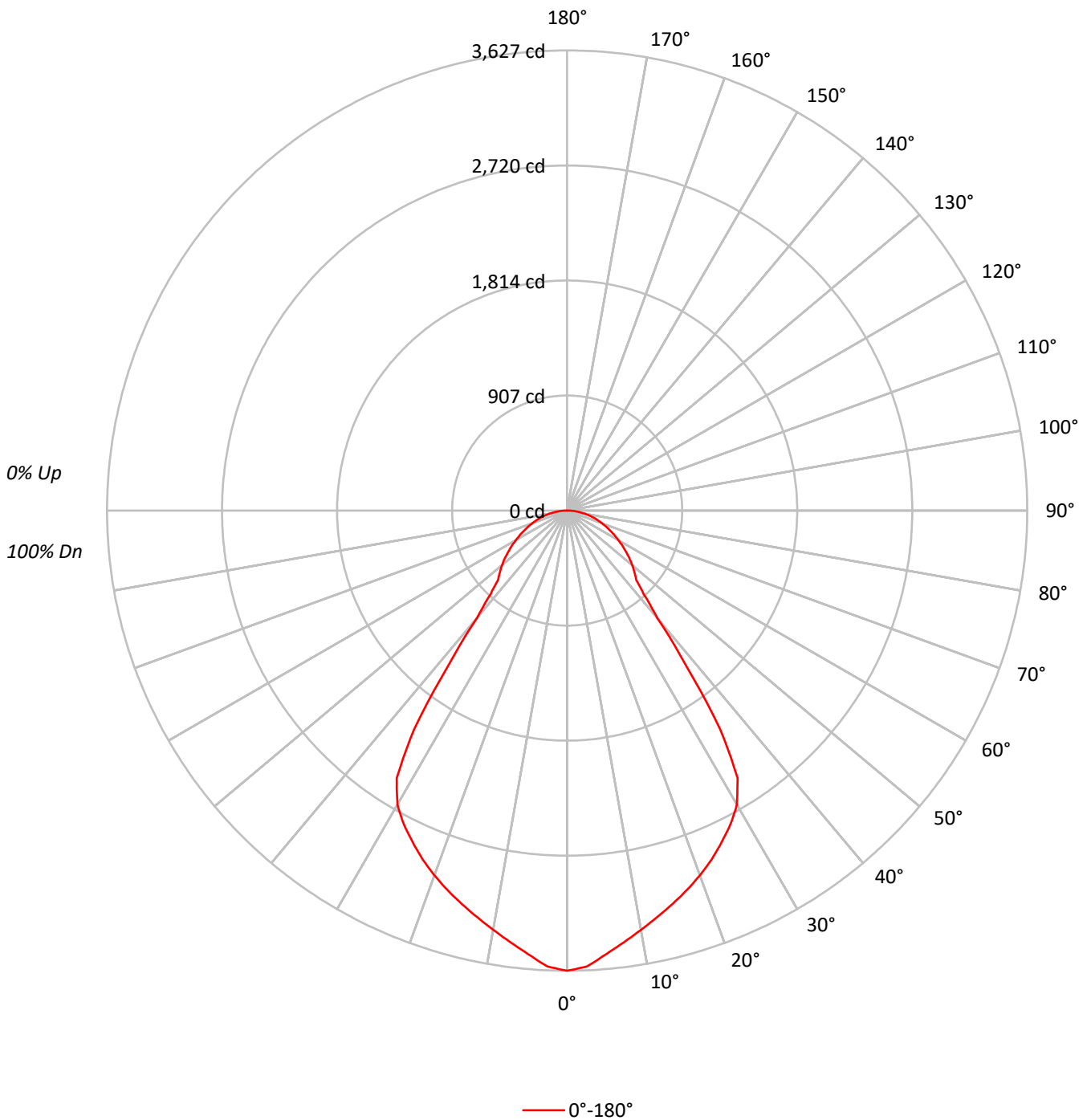
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5615.8 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48.3  
Input Voltage (V): 120  
Input Current (Ain): 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	83	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	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	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	54	48	43	52	47	43	42
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°	28854
5°	28031
10°	27104
15°	26437
20°	25904
25°	25306
30°	24582
35°	20434
40°	11500
45°	8656
50°	8309
55°	7866
60°	7415
65°	7048
70°	6797
75°	6603
80°	6442
85°	6344

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8656 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.4	5.9
10°-20°	905.5	16.1
20°-30°	1327.3	23.6
30°-40°	1239.9	22.1
40°-50°	628.8	11.2
50°-60°	507.7	9.0
60°-70°	373.3	6.6
70°-80°	227.1	4.0
80°-90°	75.9	1.4
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°	2563.1	45.6
0°-40°	3803.0	67.7
0°-60°	4939.5	88.0
0°-90°	5615.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5615.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3627	
5°	3510	330
15°	3210	905
25°	2883	1327
35°	2104	1240
45°	769	629
55°	567	508
65°	374	373
75°	215	227
85°	70	76
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3626.8
2.5°	3596.8
5°	3509.9
7.5°	3430.9
10°	3355.1
12.5°	3282.4
15°	3209.8
17.5°	3137.1
20°	3059.7
22.5°	2976.0
25°	2882.8
27.5°	2788.0
30°	2675.9
32.5°	2499.0
35°	2104.0
37.5°	1533.8
40°	1107.3
42.5°	892.5
45°	769.3
47.5°	718.7
50°	671.3
52.5°	619.2
55°	567.1
57.5°	516.5
60°	466.0
62.5°	421.8
65°	374.4
67.5°	333.3
70°	292.2
72.5°	252.7
75°	214.8
77.5°	176.9
80°	140.6
82.5°	104.3
85°	69.5
87.5°	34.8
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	17.56	18.91	17.93	19.23	19.54	17.56	18.91	17.93	19.23	19.54
	3H	19.30	20.51	19.68	20.84	21.21	19.30	20.51	19.68	20.84	21.21
	4H	20.01	21.15	20.41	21.50	21.88	20.01	21.15	20.41	21.50	21.88
	6H	20.59	21.63	21.00	22.00	22.40	20.59	21.63	21.00	22.00	22.40
	8H	20.80	21.79	21.23	22.18	22.59	20.80	21.79	21.23	22.18	22.59
	12H	20.96	21.91	21.39	22.29	22.72	20.96	21.91	21.39	22.29	22.72
4H	2H	18.12	19.25	18.52	19.60	19.98	18.12	19.25	18.52	19.60	19.98
	3H	20.09	21.04	20.51	21.44	21.84	20.09	21.04	20.51	21.44	21.84
	4H	20.94	21.79	21.38	22.21	22.65	20.94	21.79	21.38	22.21	22.65
	6H	21.66	22.40	22.12	22.84	23.31	21.66	22.40	22.12	22.84	23.31
	8H	21.93	22.62	22.40	23.06	23.53	21.93	22.62	22.40	23.06	23.53
	12H	22.14	22.75	22.63	23.24	23.71	22.14	22.75	22.63	23.24	23.71
8H	4H	21.25	21.94	21.72	22.38	22.85	21.25	21.94	21.72	22.38	22.85
	6H	22.12	22.68	22.62	23.18	23.66	22.12	22.68	22.62	23.18	23.66
	8H	22.48	22.99	23.00	23.50	23.99	22.48	22.99	23.00	23.50	23.99
	12H	22.80	23.24	23.31	23.74	24.31	22.80	23.24	23.31	23.74	24.31
12H	4H	21.28	21.89	21.77	22.37	22.85	21.28	21.89	21.77	22.37	22.85
	6H	22.19	22.70	22.71	23.21	23.70	22.19	22.70	22.71	23.21	23.70
	8H	22.62	23.06	23.13	23.56	24.13	22.62	23.06	23.13	23.56	24.13