

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: P866639

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-42)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-M-940-55L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

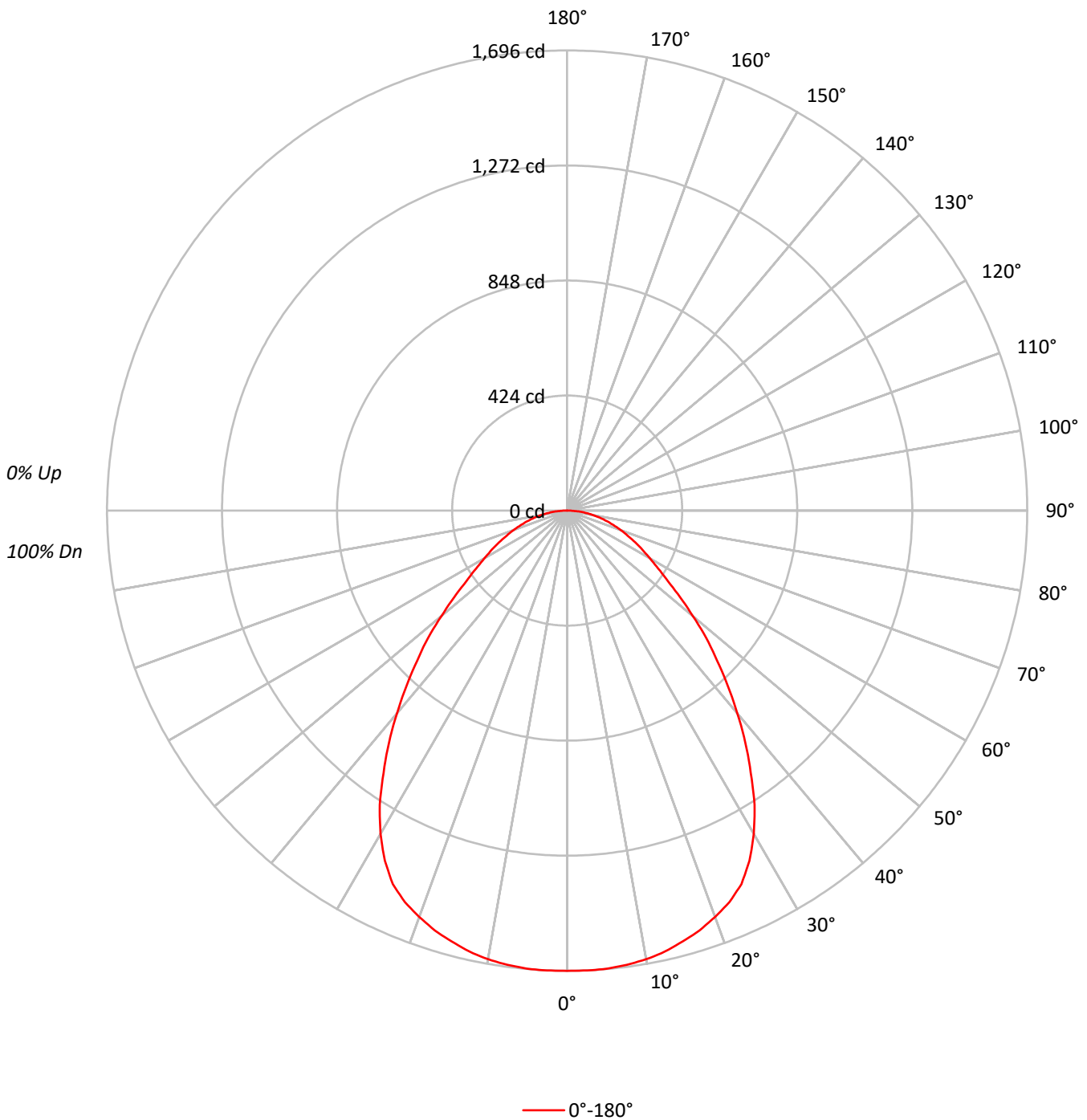
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3562.9 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48.3  
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	53	64	58	53	62	57	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

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

	0°
0°	13497
5°	13536
10°	13565
15°	13544
20°	13494
25°	13339
30°	12639
35°	11460
40°	10138
45°	8797
50°	7488
55°	6287
60°	5606
65°	5203
70°	4887
75°	4660
80°	4485
85°	4327

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8797 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	4.5
10°-20°	464.2	13.0
20°-30°	693.8	19.5
30°-40°	736.4	20.7
40°-50°	604.9	17.0
50°-60°	413.8	11.6
60°-70°	275.1	7.7
70°-80°	161.0	4.5
80°-90°	52.4	1.5
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°	1319.3	37.0
0°-40°	2055.8	57.7
0°-60°	3074.4	86.3
0°-90°	3562.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3562.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1696	
5°	1695	161
15°	1644	464
25°	1520	694
35°	1180	736
45°	782	605
55°	453	414
65°	276	275
75°	152	161
85°	47	52
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1696.5
2.5°	1696.5
5°	1694.9
7.5°	1688.6
10°	1679.1
12.5°	1664.9
15°	1644.4
17.5°	1622.3
20°	1593.8
22.5°	1562.2
25°	1519.6
27.5°	1454.8
30°	1375.8
32.5°	1285.8
35°	1180.0
37.5°	1078.9
40°	976.2
42.5°	876.7
45°	781.9
47.5°	695.0
50°	605.0
52.5°	524.4
55°	453.3
57.5°	398.1
60°	352.3
62.5°	312.8
65°	276.4
67.5°	241.7
70°	210.1
72.5°	180.1
75°	151.6
77.5°	124.8
80°	97.9
82.5°	72.7
85°	47.4
87.5°	23.7
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	17.17	18.64	17.54	18.96	19.27	17.17	18.64	17.54	18.96	19.27
	3H	18.75	20.07	19.13	20.40	20.76	18.75	20.07	19.13	20.40	20.76
	4H	19.39	20.63	19.79	20.98	21.36	19.39	20.63	19.79	20.98	21.36
	6H	19.91	21.06	20.33	21.43	21.82	19.91	21.06	20.33	21.43	21.82
	8H	20.11	21.19	20.53	21.58	21.99	20.11	21.19	20.53	21.58	21.99
	12H	20.25	21.29	20.68	21.67	22.10	20.25	21.29	20.68	21.67	22.10
4H	2H	17.70	18.94	18.10	19.28	19.66	17.70	18.94	18.10	19.28	19.66
	3H	19.52	20.55	19.93	20.95	21.35	19.52	20.55	19.93	20.95	21.35
	4H	20.30	21.22	20.73	21.64	22.08	20.30	21.22	20.73	21.64	22.08
	6H	20.96	21.77	21.42	22.21	22.67	20.96	21.77	21.42	22.21	22.67
	8H	21.21	21.96	21.67	22.41	22.88	21.21	21.96	21.67	22.41	22.88
	12H	21.40	22.08	21.89	22.56	23.03	21.40	22.08	21.89	22.56	23.03
8H	4H	20.59	21.34	21.05	21.79	22.26	20.59	21.34	21.05	21.79	22.26
	6H	21.39	22.02	21.89	22.51	22.99	21.39	22.02	21.89	22.51	22.99
	8H	21.73	22.29	22.25	22.80	23.29	21.73	22.29	22.25	22.80	23.29
	12H	22.02	22.52	22.53	23.01	23.57	22.02	22.52	22.53	23.01	23.57
12H	4H	20.62	21.29	21.10	21.77	22.24	20.62	21.29	21.10	21.77	22.24
	6H	21.46	22.02	21.97	22.53	23.02	21.46	22.02	21.97	22.53	23.02
	8H	21.86	22.36	22.37	22.85	23.41	21.86	22.36	22.37	22.85	23.41