

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: P866607

Luminaire Tested: PRLX-2004-M-940-15L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866607  
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-940-15L-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 2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

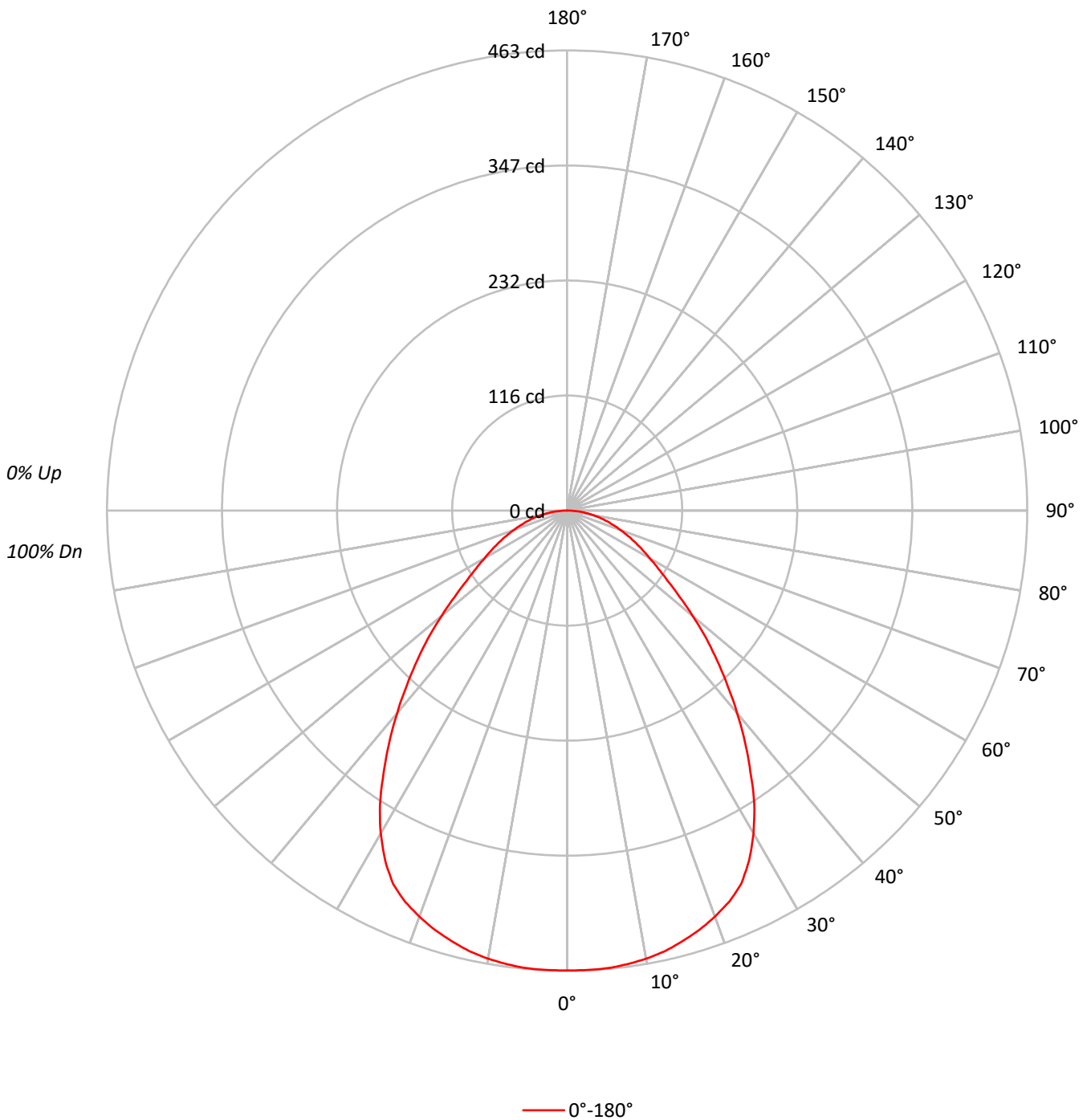
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 971.7 lumens  
Efficiency: N/A  
Efficacy: 69.4 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): 14  
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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	61	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°	3681
5°	3692
10°	3699
15°	3694
20°	3680
25°	3638
30°	3447
35°	3125
40°	2765
45°	2399
50°	2042
55°	1714
60°	1529
65°	1419
70°	1333
75°	1273
80°	1223
85°	1178

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2399 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.0	4.5
10°-20°	126.6	13.0
20°-30°	189.2	19.5
30°-40°	200.8	20.7
40°-50°	165.0	17.0
50°-60°	112.8	11.6
60°-70°	75.0	7.7
70°-80°	43.9	4.5
80°-90°	14.3	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°	359.8	37.0
0°-40°	560.7	57.7
0°-60°	838.5	86.3
0°-90°	971.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	971.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	463	
5°	462	44
15°	448	127
25°	414	189
35°	322	201
45°	213	165
55°	124	113
65°	75	75
75°	41	44
85°	13	14
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	462.7
2.5°	462.7
5°	462.3
7.5°	460.5
10°	457.9
12.5°	454.1
15°	448.5
17.5°	442.4
20°	434.7
22.5°	426.1
25°	414.4
27.5°	396.8
30°	375.2
32.5°	350.7
35°	321.8
37.5°	294.2
40°	266.2
42.5°	239.1
45°	213.2
47.5°	189.6
50°	165.0
52.5°	143.0
55°	123.6
57.5°	108.6
60°	96.1
62.5°	85.3
65°	75.4
67.5°	65.9
70°	57.3
72.5°	49.1
75°	41.4
77.5°	34.0
80°	26.7
82.5°	19.8
85°	12.9
87.5°	6.5
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	12.66	14.13	13.02	14.44	14.76	12.66	14.13	13.02	14.44	14.76
	3H	14.24	15.56	14.62	15.89	16.25	14.24	15.56	14.62	15.89	16.25
	4H	14.88	16.12	15.28	16.47	16.85	14.88	16.12	15.28	16.47	16.85
	6H	15.40	16.54	15.81	16.91	17.30	15.40	16.54	15.81	16.91	17.30
	8H	15.59	16.68	16.02	17.07	17.47	15.59	16.68	16.02	17.07	17.47
	12H	15.73	16.77	16.16	17.16	17.58	15.73	16.77	16.16	17.16	17.58
4H	2H	13.18	14.42	13.58	14.77	15.15	13.18	14.42	13.58	14.77	15.15
	3H	15.00	16.03	15.42	16.43	16.83	15.00	16.03	15.42	16.43	16.83
	4H	15.78	16.71	16.22	17.13	17.57	15.78	16.71	16.22	17.13	17.57
	6H	16.45	17.25	16.91	17.70	18.16	16.45	17.25	16.91	17.70	18.16
	8H	16.69	17.45	17.16	17.89	18.36	16.69	17.45	17.16	17.89	18.36
	12H	16.89	17.56	17.37	18.04	18.51	16.89	17.56	17.37	18.04	18.51
8H	4H	16.08	16.83	16.54	17.27	17.74	16.08	16.83	16.54	17.27	17.74
	6H	16.88	17.50	17.38	18.00	18.47	16.88	17.50	17.38	18.00	18.47
	8H	17.22	17.78	17.73	18.29	18.78	17.22	17.78	17.73	18.29	18.78
	12H	17.51	18.00	18.02	18.49	19.06	17.51	18.00	18.02	18.49	19.06
12H	4H	16.11	16.78	16.59	17.26	17.73	16.11	16.78	16.59	17.26	17.73
	6H	16.94	17.50	17.46	18.02	18.50	16.94	17.50	17.46	18.02	18.50
	8H	17.34	17.84	17.85	18.33	18.90	17.34	17.84	17.85	18.33	18.90