

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: P866880

Luminaire Tested: PRLX-2001-L-940-15L-G-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-940-15L-G-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

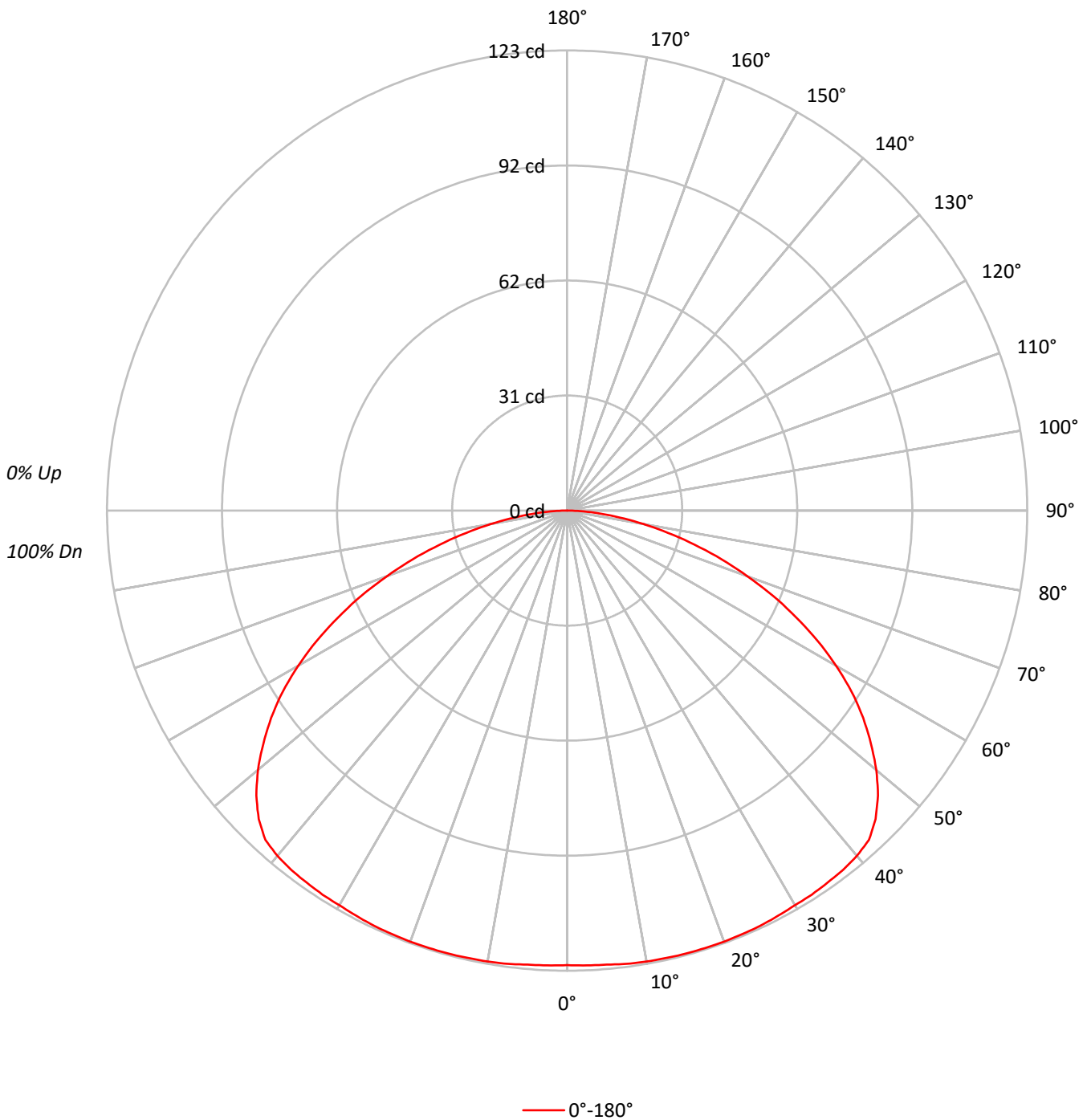
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 468.8 lumens  
Efficiency: N/A  
Efficacy: 28.6 lumens/watt  
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.4  
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	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		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	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

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

	0°
0°	664
5°	668
10°	679
15°	694
20°	713
25°	738
30°	769
35°	810
40°	860
45°	901
50°	918
55°	921
60°	909
65°	873
70°	818
75°	746
80°	652
85°	514

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 55°  
 Luminance: 921 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.7	2.5
10°-20°	34.7	7.4
20°-30°	56.6	12.1
30°-40°	76.2	16.3
40°-50°	89.5	19.1
50°-60°	86.1	18.4
60°-70°	66.7	14.2
70°-80°	37.5	8.0
80°-90°	9.8	2.1
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°	103.0	22.0
0°-40°	179.2	38.2
0°-60°	354.8	75.7
0°-90°	468.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	468.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	122	
5°	122	12
15°	123	35
25°	122	57
35°	121	76
45°	117	89
55°	97	86
65°	68	67
75°	35	37
85°	8	10
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	121.5
2.5°	121.7
5°	121.8
7.5°	122.2
10°	122.4
12.5°	122.5
15°	122.6
17.5°	122.6
20°	122.6
22.5°	122.5
25°	122.4
27.5°	122.1
30°	121.8
32.5°	121.7
35°	121.4
37.5°	121.1
40°	120.5
42.5°	119.4
45°	116.6
47.5°	112.7
50°	107.9
52.5°	102.4
55°	96.6
57.5°	90.2
60°	83.1
62.5°	75.5
65°	67.5
67.5°	59.6
70°	51.2
72.5°	43.3
75°	35.3
77.5°	27.6
80°	20.7
82.5°	14.1
85°	8.2
87.5°	3.5
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	12.30	14.02	12.66	14.33	14.65	12.30	14.02	12.66	14.33	14.65
	3H	14.12	15.68	14.50	16.01	16.36	14.12	15.68	14.50	16.01	16.36
	4H	14.78	16.25	15.17	16.60	16.97	14.78	16.25	15.17	16.60	16.97
	6H	15.24	16.61	15.65	16.97	17.36	15.24	16.61	15.65	16.97	17.36
	8H	15.38	16.69	15.80	17.08	17.48	15.38	16.69	15.80	17.08	17.48
	12H	15.47	16.73	15.90	17.11	17.54	15.47	16.73	15.90	17.11	17.54
4H	2H	12.96	14.43	13.35	14.78	15.15	12.96	14.43	13.35	14.78	15.15
	3H	14.99	16.23	15.40	16.63	17.02	14.99	16.23	15.40	16.63	17.02
	4H	15.77	16.89	16.20	17.31	17.74	15.77	16.89	16.20	17.31	17.74
	6H	16.36	17.34	16.81	17.78	18.23	16.36	17.34	16.81	17.78	18.23
	8H	16.54	17.47	17.00	17.91	18.37	16.54	17.47	17.00	17.91	18.37
	12H	16.67	17.50	17.15	17.98	18.44	16.67	17.50	17.15	17.98	18.44
8H	4H	16.08	17.00	16.54	17.45	17.91	16.08	17.00	16.54	17.45	17.91
	6H	16.78	17.55	17.27	18.04	18.51	16.78	17.55	17.27	18.04	18.51
	8H	17.03	17.73	17.54	18.23	18.71	17.03	17.73	17.54	18.23	18.71
	12H	17.23	17.84	17.73	18.33	18.89	17.23	17.84	17.73	18.33	18.89
12H	4H	16.12	16.95	16.60	17.42	17.89	16.12	16.95	16.60	17.42	17.89
	6H	16.84	17.53	17.34	18.03	18.51	16.84	17.53	17.34	18.03	18.51
	8H	17.14	17.75	17.65	18.24	18.80	17.14	17.75	17.65	18.24	18.80