

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: P866640

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866640  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-57)  
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-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
BELL WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

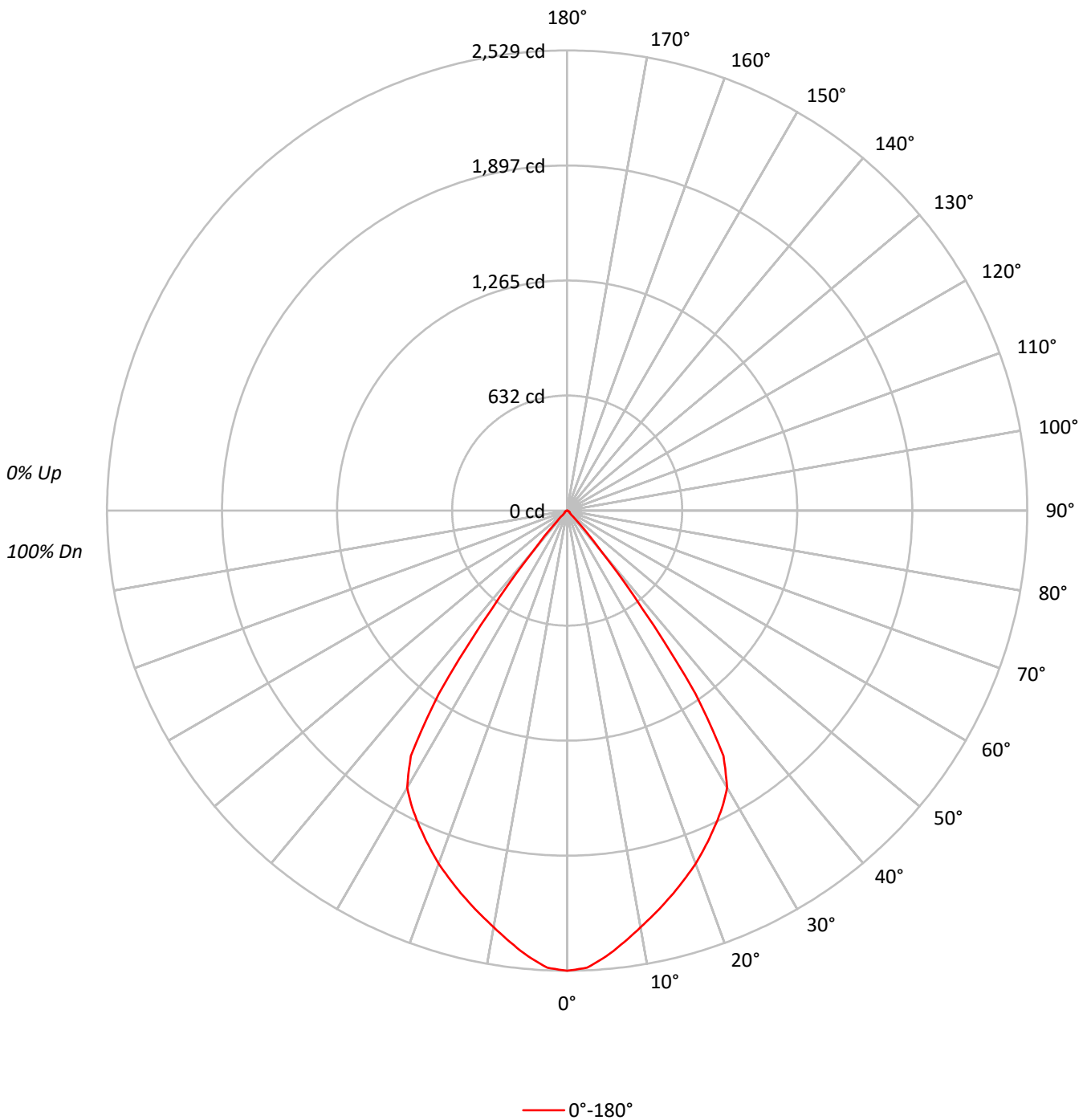
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2513.7 lumens  
Efficiency: N/A  
Efficacy: 52.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1  
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: 0.333 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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70
6	87	78	72	68	86	77	72	68	76	71	67	75	70	67	73	69	66	65
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50

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

	0°
0°	20120
5°	19642
10°	18784
15°	18085
20°	17480
25°	16834
30°	16151
35°	11935
40°	3018
45°	356
50°	235
55°	219
60°	200
65°	179
70°	147
75°	144
80°	147
85°	146

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 356 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.5	9.2
10°-20°	618.6	24.6
20°-30°	882.8	35.1
30°-40°	691.9	27.5
40°-50°	60.2	2.4
50°-60°	14.1	0.6
60°-70°	9.4	0.4
70°-80°	5.0	0.2
80°-90°	1.3	0.1
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°	1731.8	68.9
0°-40°	2423.7	96.4
0°-60°	2498.0	99.4
0°-90°	2513.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2513.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2529	
5°	2460	230
15°	2196	619
25°	1918	883
35°	1229	692
45°	32	60
55°	16	14
65°	10	9
75°	5	5
85°	2	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2529.0
2.5°	2514.8
5°	2459.5
7.5°	2393.1
10°	2325.2
12.5°	2260.4
15°	2195.7
17.5°	2130.9
20°	2064.6
22.5°	1991.9
25°	1917.7
27.5°	1843.4
30°	1758.1
32.5°	1598.6
35°	1228.9
37.5°	679.2
40°	290.6
42.5°	115.3
45°	31.6
47.5°	22.1
50°	19.0
52.5°	17.4
55°	15.8
57.5°	14.2
60°	12.6
62.5°	11.1
65°	9.5
67.5°	7.9
70°	6.3
72.5°	6.3
75°	4.7
77.5°	3.2
80°	3.2
82.5°	1.6
85°	1.6
87.5°	0.0
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.17
	8H	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.25
	12H	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.35
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.39
	8H	0.00	0.00	0.00	0.05	0.55	0.00	0.00	0.00	0.05	0.55
	12H	0.00	0.00	0.00	0.20	0.78	0.00	0.00	0.00	0.20	0.78
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.39
	8H	0.00	0.00	0.00	0.04	0.62	0.00	0.00	0.00	0.04	0.62