

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: P866641

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-55)  
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-BRSS-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
BELL WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

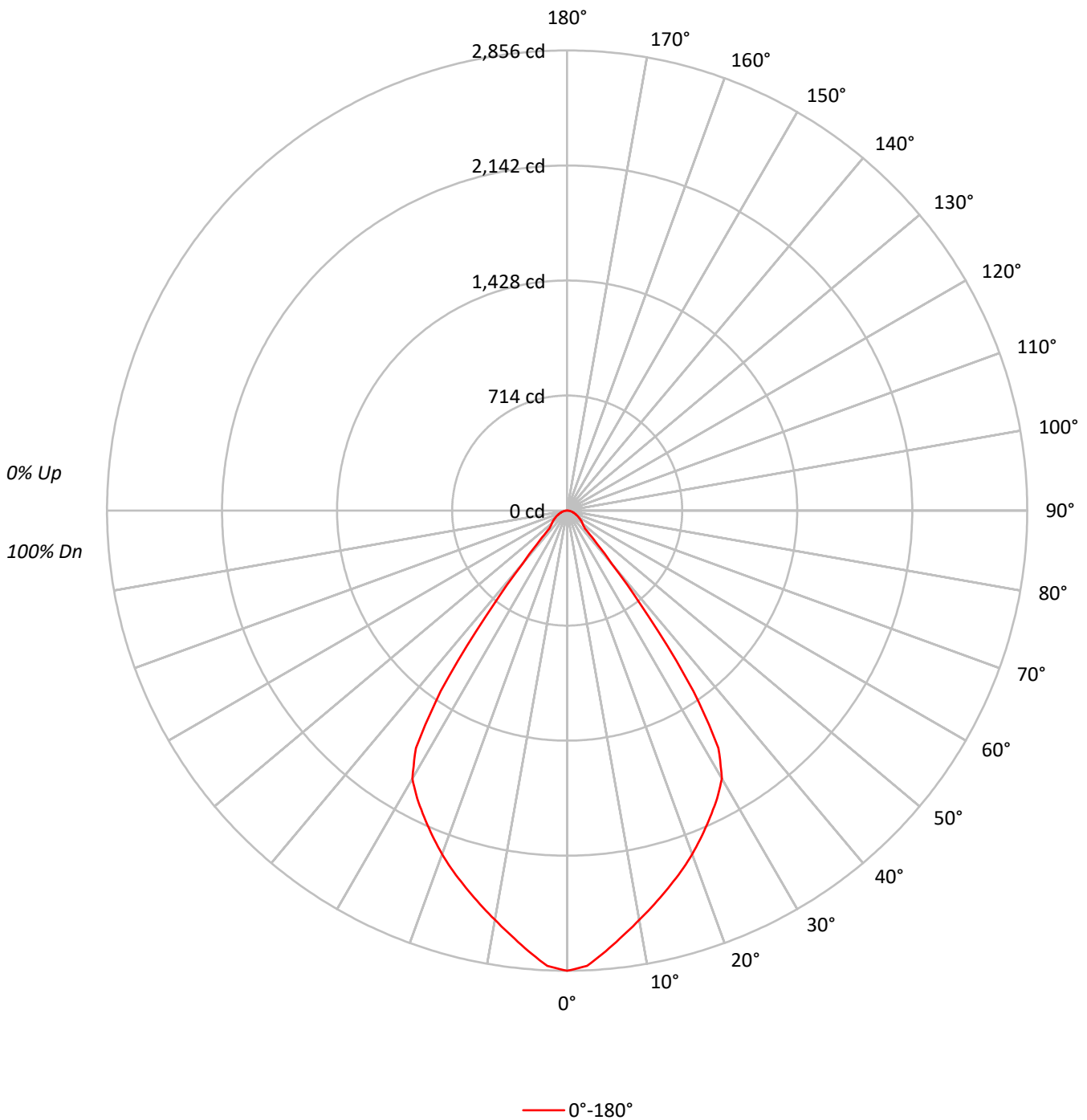
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3048.6 lumens  
Efficiency: N/A  
Efficacy: 63.1 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1  
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	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	95	86	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71
5	90	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49
10	68	58	52	48	67	58	52	48	57	51	47	56	51	47	55	50	47	46

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

	0°
0°	22721
5°	21925
10°	20838
15°	19971
20°	19218
25°	18428
30°	17645
35°	13285
40°	4478
45°	1742
50°	1545
55°	1424
60°	1306
65°	1190
70°	1103
75°	1070
80°	1013
85°	1013

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1742 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.9	8.4
10°-20°	683.0	22.4
20°-30°	966.8	31.7
30°-40°	784.5	25.7
40°-50°	154.0	5.1
50°-60°	91.9	3.0
60°-70°	63.3	2.1
70°-80°	36.7	1.2
80°-90°	11.6	0.4
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°	1906.6	62.5
0°-40°	2691.1	88.3
0°-60°	2937.0	96.3
0°-90°	3048.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2856	
5°	2745	257
15°	2425	683
25°	2099	967
35°	1368	784
45°	155	154
55°	103	92
65°	63	63
75°	35	37
85°	11	12
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2855.9
2.5°	2829.1
5°	2745.4
7.5°	2660.1
10°	2579.5
12.5°	2502.1
15°	2424.7
17.5°	2348.9
20°	2269.9
22.5°	2184.6
25°	2099.3
27.5°	2015.6
30°	1920.8
32.5°	1747.0
35°	1367.9
37.5°	830.9
40°	431.2
42.5°	243.3
45°	154.8
47.5°	134.3
50°	124.8
52.5°	113.7
55°	102.7
57.5°	91.6
60°	82.1
62.5°	72.7
65°	63.2
67.5°	55.3
70°	47.4
72.5°	41.1
75°	34.8
77.5°	28.4
80°	22.1
82.5°	15.8
85°	11.1
87.5°	4.7
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	8.04	9.09	8.40	9.40	9.72	8.04	9.09	8.40	9.40	9.72
	3H	9.53	10.46	9.91	10.80	11.16	9.53	10.46	9.91	10.80	11.16
	4H	10.14	11.01	10.55	11.36	11.75	10.14	11.01	10.55	11.36	11.75
	6H	10.62	11.41	11.04	11.79	12.19	10.62	11.41	11.04	11.79	12.19
	8H	10.78	11.53	11.22	11.92	12.33	10.78	11.53	11.22	11.92	12.33
	12H	10.90	11.61	11.33	11.99	12.43	10.90	11.61	11.33	11.99	12.43
4H	2H	8.47	9.34	8.88	9.69	10.08	8.47	9.34	8.88	9.69	10.08
	3H	10.19	10.90	10.61	11.31	11.71	10.19	10.90	10.61	11.31	11.71
	4H	10.94	11.57	11.37	11.99	12.44	10.94	11.57	11.37	11.99	12.44
	6H	11.55	12.10	12.02	12.55	13.02	11.55	12.10	12.02	12.55	13.02
	8H	11.76	12.27	12.23	12.72	13.19	11.76	12.27	12.23	12.72	13.19
	12H	11.93	12.37	12.42	12.85	13.33	11.93	12.37	12.42	12.85	13.33
8H	4H	11.17	11.68	11.64	12.13	12.60	11.17	11.68	11.64	12.13	12.60
	6H	11.93	12.33	12.44	12.83	13.32	11.93	12.33	12.44	12.83	13.32
	8H	12.22	12.58	12.75	13.10	13.60	12.22	12.58	12.75	13.10	13.60
	12H	12.49	12.80	13.01	13.30	13.88	12.49	12.80	13.01	13.30	13.88
12H	4H	11.17	11.61	11.66	12.10	12.58	11.17	11.61	11.66	12.10	12.58
	6H	11.97	12.33	12.50	12.85	13.34	11.97	12.33	12.50	12.85	13.34
	8H	12.32	12.63	12.84	13.13	13.71	12.32	12.63	12.84	13.13	13.71