

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: P866609

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866609  
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-940-15L-L-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
BELL WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

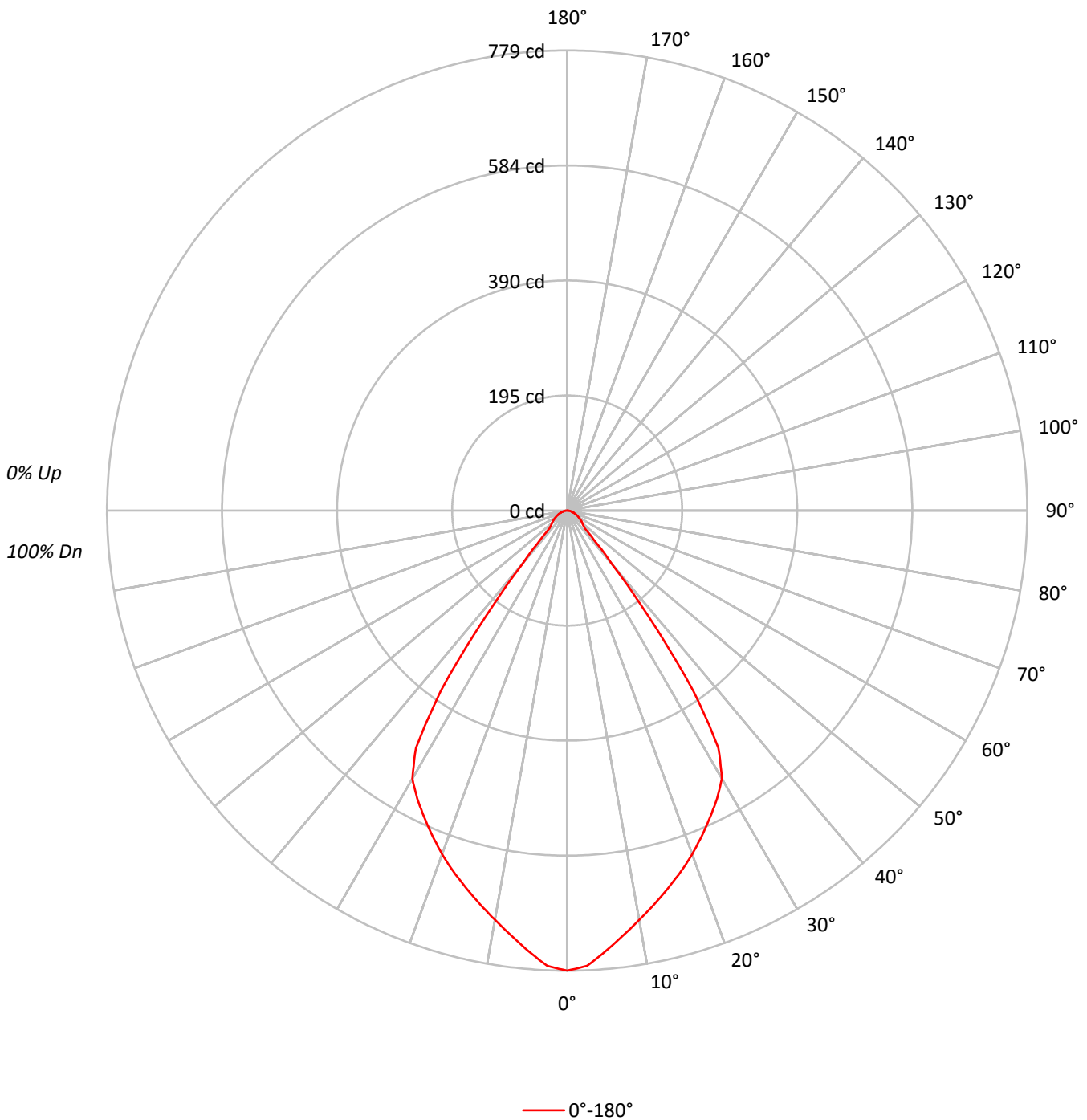
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 831.4 lumens  
Efficiency: N/A  
Efficacy: 59.4 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): 14  
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	87	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°	6197
5°	5979
10°	5683
15°	5447
20°	5242
25°	5026
30°	4813
35°	3624
40°	1221
45°	475
50°	421
55°	388
60°	356
65°	324
70°	300
75°	292
80°	275
85°	274

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 475 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.1	8.4
10°-20°	186.3	22.4
20°-30°	263.7	31.7
30°-40°	214.0	25.7
40°-50°	42.0	5.0
50°-60°	25.1	3.0
60°-70°	17.2	2.1
70°-80°	10.0	1.2
80°-90°	3.2	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°	520.0	62.5
0°-40°	734.0	88.3
0°-60°	801.0	96.3
0°-90°	831.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	831.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	779	
5°	749	70
15°	661	186
25°	572	264
35°	373	214
45°	42	42
55°	28	25
65°	17	17
75°	10	10
85°	3	3
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	778.9
2.5°	771.6
5°	748.7
7.5°	725.5
10°	703.5
12.5°	682.4
15°	661.3
17.5°	640.6
20°	619.1
22.5°	595.8
25°	572.5
27.5°	549.7
30°	523.9
32.5°	476.5
35°	373.1
37.5°	226.6
40°	117.6
42.5°	66.3
45°	42.2
47.5°	36.6
50°	34.0
52.5°	31.0
55°	28.0
57.5°	25.0
60°	22.4
62.5°	19.8
65°	17.2
67.5°	15.1
70°	12.9
72.5°	11.2
75°	9.5
77.5°	7.8
80°	6.0
82.5°	4.3
85°	3.0
87.5°	1.3
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	3.53	4.58	3.89	4.89	5.21	3.53	4.58	3.89	4.89	5.21
	3H	5.02	5.95	5.40	6.29	6.65	5.02	5.95	5.40	6.29	6.65
	4H	5.63	6.50	6.04	6.85	7.24	5.63	6.50	6.04	6.85	7.24
	6H	6.11	6.91	6.53	7.28	7.68	6.11	6.91	6.53	7.28	7.68
	8H	6.27	7.02	6.71	7.41	7.82	6.27	7.02	6.71	7.41	7.82
	12H	6.39	7.10	6.82	7.48	7.91	6.39	7.10	6.82	7.48	7.91
4H	2H	3.96	4.83	4.37	5.18	5.57	3.96	4.83	4.37	5.18	5.57
	3H	5.68	6.39	6.09	6.79	7.20	5.68	6.39	6.09	6.79	7.20
	4H	6.42	7.06	6.86	7.48	7.93	6.42	7.06	6.86	7.48	7.93
	6H	7.04	7.59	7.51	8.04	8.51	7.04	7.59	7.51	8.04	8.51
	8H	7.25	7.75	7.72	8.20	8.68	7.25	7.75	7.72	8.20	8.68
	12H	7.41	7.85	7.90	8.34	8.82	7.41	7.85	7.90	8.34	8.82
8H	4H	6.66	7.16	7.13	7.61	8.09	6.66	7.16	7.13	7.61	8.09
	6H	7.42	7.82	7.92	8.32	8.81	7.42	7.82	7.92	8.32	8.81
	8H	7.71	8.06	8.24	8.59	9.08	7.71	8.06	8.24	8.59	9.08
	12H	7.97	8.28	8.49	8.78	9.36	7.97	8.28	8.49	8.78	9.36
12H	4H	6.66	7.10	7.15	7.59	8.07	6.66	7.10	7.15	7.59	8.07
	6H	7.46	7.82	7.99	8.34	8.83	7.46	7.82	7.99	8.34	8.83
	8H	7.81	8.12	8.33	8.62	9.20	7.81	8.12	8.33	8.62	9.20