

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: P867237

Luminaire Tested: PRLX-2004-L-930-100L-L-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867237  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-85)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-L-930-100L-L-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
BELL WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

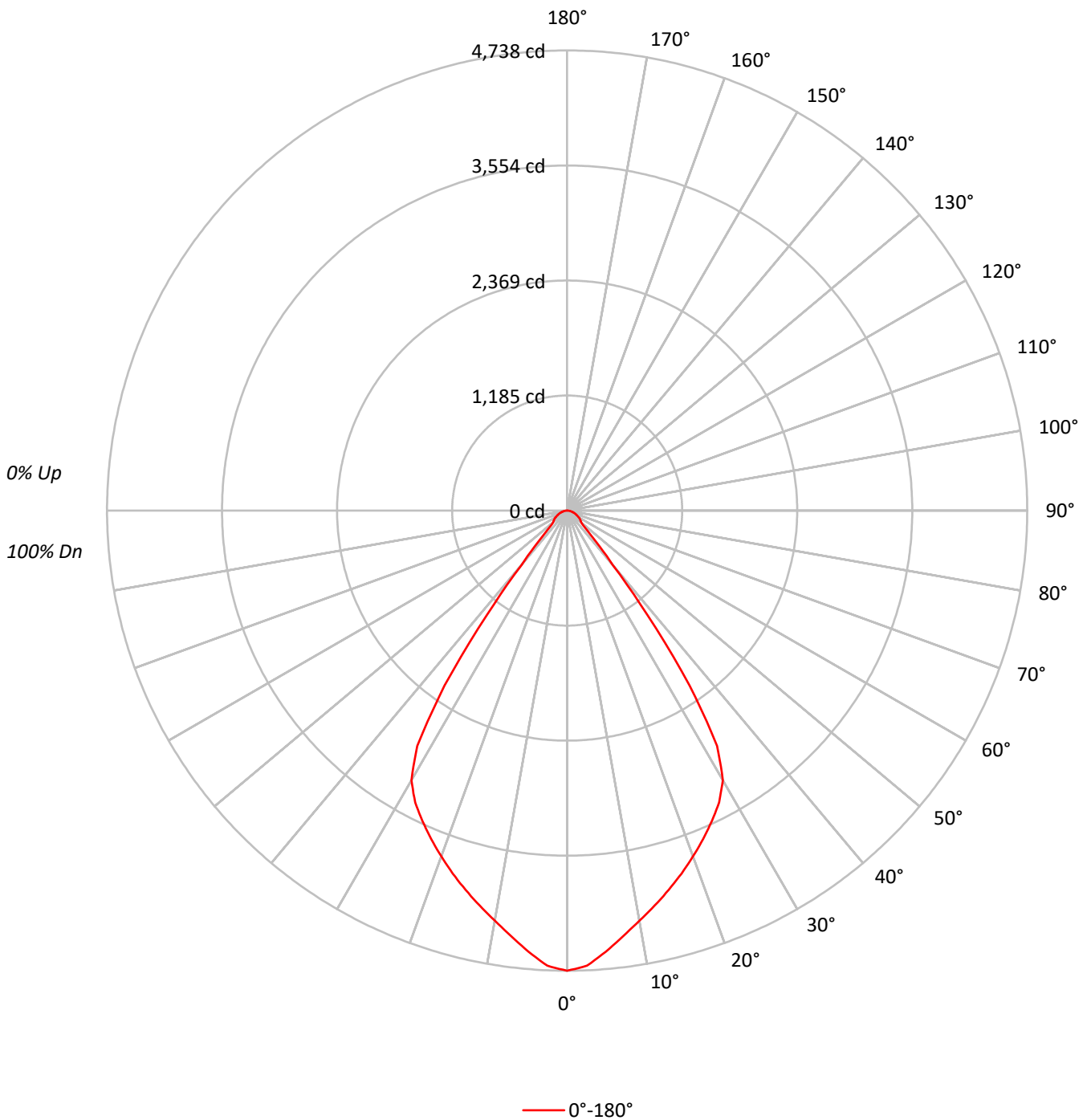
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5073.9 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.99  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 79.4  
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	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	63	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°	23376
5°	22583
10°	21481
15°	20647
20°	19894
25°	19193
30°	18266
35°	13250
40°	4708
45°	2072
50°	1434
55°	1414
60°	1334
65°	1256
70°	1180
75°	1115
80°	1051
85°	974

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2072 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.6	8.4
10°-20°	1138.3	22.4
20°-30°	1620.6	31.9
30°-40°	1285.0	25.3
40°-50°	269.3	5.3
50°-60°	145.9	2.9
60°-70°	106.9	2.1
70°-80°	62.0	1.2
80°-90°	19.3	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°	3185.5	62.8
0°-40°	4470.5	88.1
0°-60°	4885.7	96.3
0°-90°	5073.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5073.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4738	
5°	4560	427
15°	4042	1138
25°	3526	1621
35°	2200	1285
45°	297	269
55°	164	146
65°	108	107
75°	58	62
85°	17	19
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4737.9
2.5°	4690.5
5°	4559.7
7.5°	4419.3
10°	4287.6
12.5°	4165.3
15°	4042.2
17.5°	3918.2
20°	3789.1
22.5°	3659.9
25°	3525.6
27.5°	3387.9
30°	3206.2
32.5°	2872.2
35°	2199.8
37.5°	1351.7
40°	731.0
42.5°	446.8
45°	297.0
47.5°	216.1
50°	186.8
52.5°	177.4
55°	164.4
57.5°	149.8
60°	135.2
62.5°	121.4
65°	107.6
67.5°	94.7
70°	81.8
72.5°	69.7
75°	58.5
77.5°	47.4
80°	37.0
82.5°	26.7
85°	17.2
87.5°	8.6
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	8.02	9.08	8.39	9.39	9.71	8.02	9.08	8.39	9.39	9.71
	3H	9.66	10.59	10.04	10.92	11.29	9.66	10.59	10.04	10.92	11.29
	4H	10.28	11.15	10.69	11.50	11.89	10.28	11.15	10.69	11.50	11.89
	6H	10.76	11.55	11.18	11.93	12.32	10.76	11.55	11.18	11.93	12.32
	8H	10.92	11.67	11.36	12.06	12.47	10.92	11.67	11.36	12.06	12.47
	12H	11.03	11.74	11.46	12.13	12.56	11.03	11.74	11.46	12.13	12.56
4H	2H	8.51	9.38	8.92	9.73	10.12	8.51	9.38	8.92	9.73	10.12
	3H	10.35	11.07	10.77	11.47	11.88	10.35	11.07	10.77	11.47	11.88
	4H	11.11	11.74	11.54	12.16	12.61	11.11	11.74	11.54	12.16	12.61
	6H	11.72	12.26	12.19	12.71	13.18	11.72	12.26	12.19	12.71	13.18
	8H	11.92	12.43	12.40	12.88	13.36	11.92	12.43	12.40	12.88	13.36
	12H	12.08	12.52	12.57	13.00	13.48	12.08	12.52	12.57	13.00	13.48
8H	4H	11.34	11.85	11.82	12.30	12.77	11.34	11.85	11.82	12.30	12.77
	6H	12.09	12.50	12.60	13.00	13.48	12.09	12.50	12.60	13.00	13.48
	8H	12.39	12.75	12.92	13.27	13.76	12.39	12.75	12.92	13.27	13.76
	12H	12.63	12.94	13.15	13.44	14.02	12.63	12.94	13.15	13.44	14.02
12H	4H	11.34	11.79	11.83	12.27	12.75	11.34	11.79	11.83	12.27	12.75
	6H	12.13	12.49	12.66	13.01	13.51	12.13	12.49	12.66	13.01	13.51
	8H	12.49	12.80	13.01	13.30	13.88	12.49	12.80	13.01	13.30	13.88