

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: P867249

Luminaire Tested: PRLX-2004-L-930-117L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867249  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2004-L-930-117L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
BELL WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

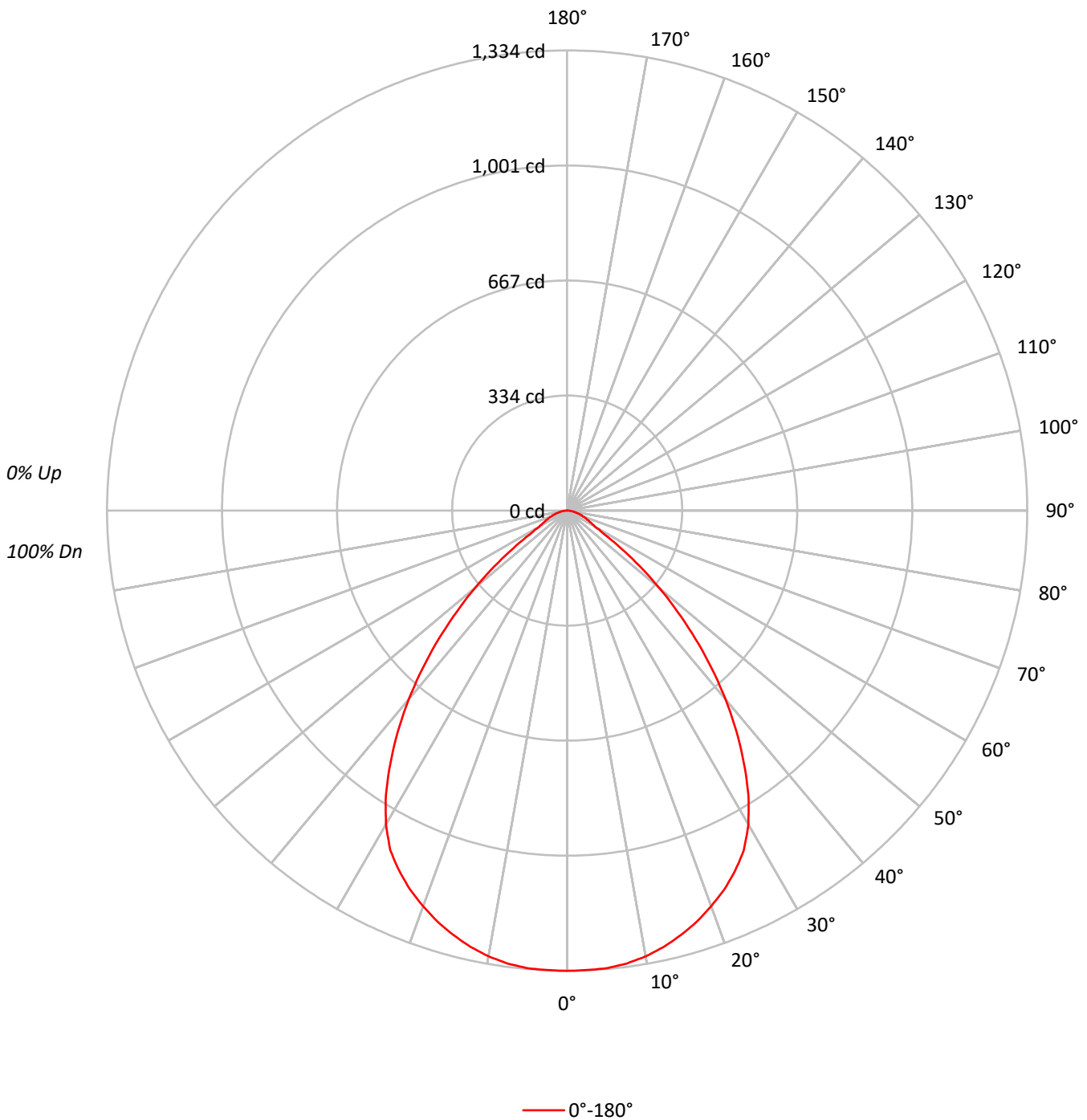
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2266.1 lumens  
Efficiency: N/A  
Efficacy: 23.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.17  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
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

TEST NUMBER: P867249

CATALOG NUMBER: PRLX-2004-L-930-117L-G-X-X-BRSS-X

### Luminous Intensity Polar Plot





TEST NUMBER: P867249

CATALOG NUMBER: PRLX-2004-L-930-117L-G-X-X-BRSS-X

**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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67	75	70	67	73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

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

	0°
0°	6584
5°	6594
10°	6574
15°	6507
20°	6409
25°	6272
30°	5984
35°	5380
40°	4599
45°	3675
50°	2667
55°	1637
60°	925
65°	788
70°	697
75°	633
80°	571
85°	515

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3675 cd/sqm

TEST NUMBER: P867249

CATALOG NUMBER: PRLX-2004-L-930-117L-G-X-X-BRSS-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.5	5.6
10°-20°	359.1	15.8
20°-30°	528.5	23.3
30°-40°	554.8	24.5
40°-50°	405.0	17.9
50°-60°	178.4	7.9
60°-70°	68.1	3.0
70°-80°	35.3	1.6
80°-90°	10.4	0.5
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°	1014.0	44.7
0°-40°	1568.8	69.2
0°-60°	2152.3	95.0
0°-90°	2266.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1334	
5°	1331	126
15°	1274	359
25°	1152	529
35°	893	555
45°	527	405
55°	190	178
65°	68	68
75°	33	35
85°	9	10
90°	0	

TEST NUMBER: P867249

CATALOG NUMBER: PRLX-2004-L-930-117L-G-X-X-BRSS-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1334.4
2.5°	1333.4
5°	1331.4
7.5°	1324.3
10°	1312.2
12.5°	1295.1
15°	1273.9
17.5°	1249.8
20°	1220.6
22.5°	1189.4
25°	1152.1
27.5°	1109.8
30°	1050.4
32.5°	977.9
35°	893.3
37.5°	805.7
40°	714.0
42.5°	620.4
45°	526.7
47.5°	434.0
50°	347.4
52.5°	265.9
55°	190.3
57.5°	128.9
60°	93.7
62.5°	79.6
65°	67.5
67.5°	57.4
70°	48.3
72.5°	40.3
75°	33.2
77.5°	26.2
80°	20.1
82.5°	15.1
85°	9.1
87.5°	4.0
90°	0.0

TEST NUMBER: P867249

CATALOG NUMBER: PRLX-2004-L-930-117L-G-X-X-BRSS-X

**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	9.38	10.68	9.74	10.99	11.31	9.38	10.68	9.74	10.99	11.31
	3H	10.26	11.41	10.64	11.74	12.11	10.26	11.41	10.64	11.74	12.11
	4H	10.61	11.68	11.02	12.03	12.42	10.61	11.68	11.02	12.03	12.42
	6H	10.88	11.86	11.29	12.23	12.62	10.88	11.86	11.29	12.23	12.62
	8H	10.97	11.90	11.40	12.29	12.69	10.97	11.90	11.40	12.29	12.69
	12H	11.03	11.91	11.46	12.30	12.73	11.03	11.91	11.46	12.30	12.73
4H	2H	9.61	10.68	10.01	11.03	11.41	9.61	10.68	10.01	11.03	11.41
	3H	10.71	11.58	11.12	11.98	12.38	10.71	11.58	11.12	11.98	12.38
	4H	11.18	11.95	11.61	12.37	12.82	11.18	11.95	11.61	12.37	12.82
	6H	11.56	12.23	12.02	12.68	13.14	11.56	12.23	12.02	12.68	13.14
	8H	11.70	12.32	12.17	12.77	13.24	11.70	12.32	12.17	12.77	13.24
	12H	11.79	12.35	12.28	12.83	13.30	11.79	12.35	12.28	12.83	13.30
8H	4H	11.31	11.93	11.78	12.38	12.85	11.31	11.93	11.78	12.38	12.85
	6H	11.80	12.31	12.30	12.80	13.29	11.80	12.31	12.30	12.80	13.29
	8H	12.00	12.46	12.52	12.98	13.47	12.00	12.46	12.52	12.98	13.47
	12H	12.17	12.58	12.68	13.07	13.64	12.17	12.58	12.68	13.07	13.64
12H	4H	11.30	11.85	11.79	12.34	12.81	11.30	11.85	11.79	12.34	12.81
	6H	11.81	12.27	12.33	12.79	13.28	11.81	12.27	12.33	12.79	13.28
	8H	12.07	12.48	12.58	12.97	13.54	12.07	12.48	12.58	12.97	13.54