

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: P867220

Luminaire Tested: PRLX-2004-L-927-67L-L-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-87)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2004-L-927-67L-L-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
BELL WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

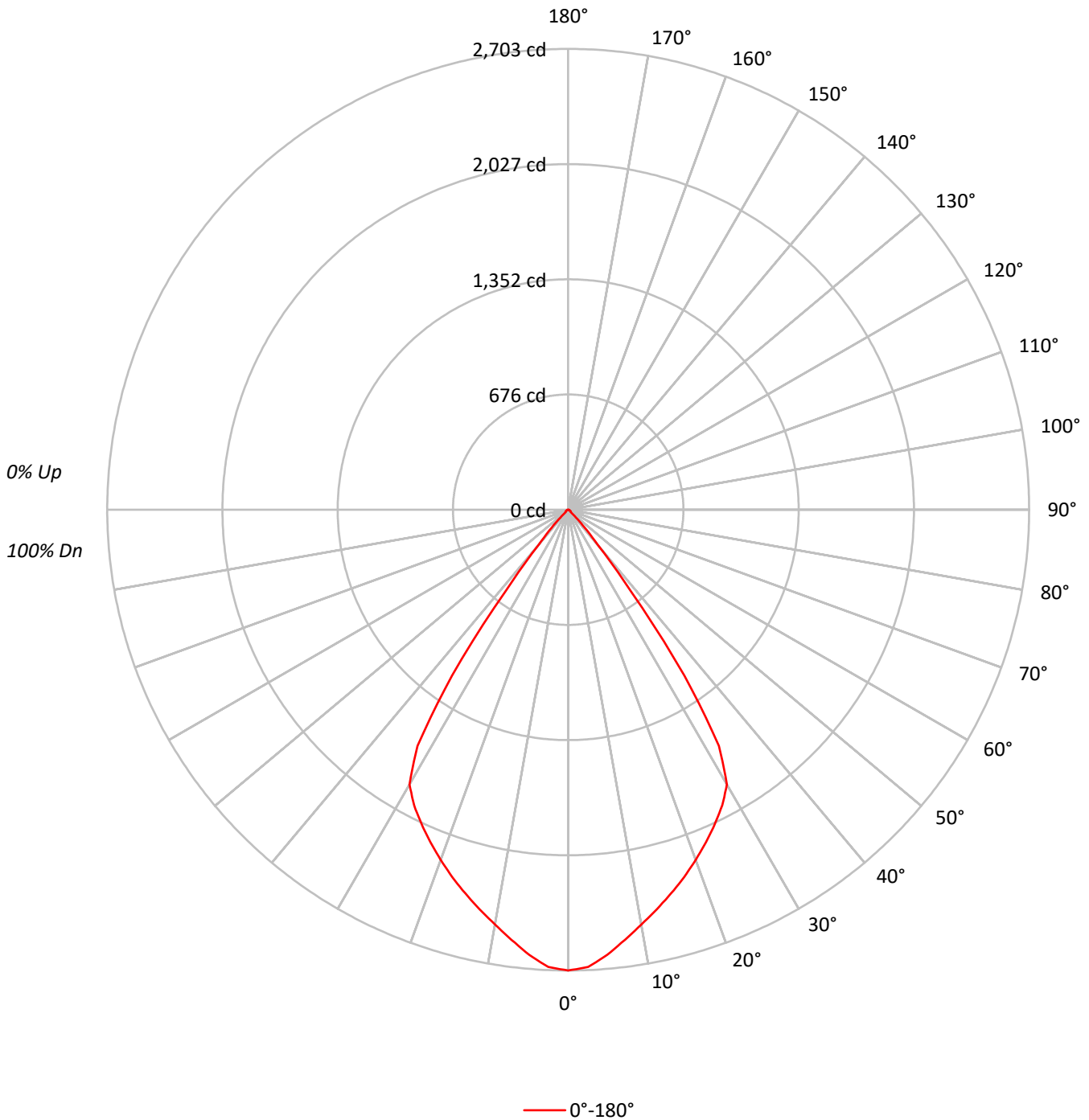
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2625.3 lumens  
Efficiency: N/A  
Efficacy: 52.1 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.05 / 0.98  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 50.4  
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

TEST NUMBER: P867220

CATALOG NUMBER: PRLX-2004-L-927-67L-L-X-X-BLAK-X

### Luminous Intensity Polar Plot





TEST NUMBER: P867220

CATALOG NUMBER: PRLX-2004-L-927-67L-L-X-X-BLAK-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	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	78	72	68	76	71	67		75	70	67		73	69	66	65
7	83	74	68	63	82	73	67	63	72	66	63		70	66	62		69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59		66	62	58		65	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55		63	58	55		62	58	54	53
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59	54	51	50

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

	0°
0°	13336
5°	12981
10°	12378
15°	11903
20°	11479
25°	11077
30°	10602
35°	7152
40°	1725
45°	442
50°	155
55°	146
60°	136
65°	124
70°	115
75°	111
80°	105
85°	91

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 442 cd/sqm

TEST NUMBER: P867220

CATALOG NUMBER: PRLX-2004-L-927-67L-L-X-X-BLAK-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.3	9.3
10°-20°	656.3	25.0
20°-30°	935.8	35.6
30°-40°	684.7	26.1
40°-50°	69.3	2.6
50°-60°	15.2	0.6
60°-70°	10.6	0.4
70°-80°	6.2	0.2
80°-90°	2.0	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°	1837.4	70.0
0°-40°	2522.1	96.1
0°-60°	2606.6	99.3
0°-90°	2625.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2625.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2703	
5°	2621	245
15°	2330	656
25°	2035	936
35°	1188	685
45°	63	69
55°	17	15
65°	11	11
75°	6	6
85°	2	2
90°	0	

TEST NUMBER: P867220

CATALOG NUMBER: PRLX-2004-L-927-67L-L-X-X-BLAK-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2702.9
2.5°	2684.3
5°	2621.0
7.5°	2544.5
10°	2470.6
12.5°	2400.4
15°	2330.3
17.5°	2259.6
20°	2186.2
22.5°	2110.2
25°	2034.7
27.5°	1955.5
30°	1860.9
32.5°	1643.5
35°	1187.5
37.5°	603.8
40°	267.9
42.5°	141.9
45°	63.3
47.5°	22.3
50°	20.2
52.5°	18.6
55°	17.0
57.5°	15.4
60°	13.8
62.5°	12.2
65°	10.6
67.5°	9.0
70°	8.0
72.5°	6.9
75°	5.8
77.5°	4.8
80°	3.7
82.5°	2.7
85°	1.6
87.5°	1.1
90°	0.0



TEST NUMBER: P867220  
 CATALOG NUMBER: PRLX-2004-L-927-67L-L-X-X-BLAK-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	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	0.00	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
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	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.06
	12H	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.30
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	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.17