

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: P866968

Luminaire Tested: PRLX-2002-L-927-67L-G-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-L-927-67L-G-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

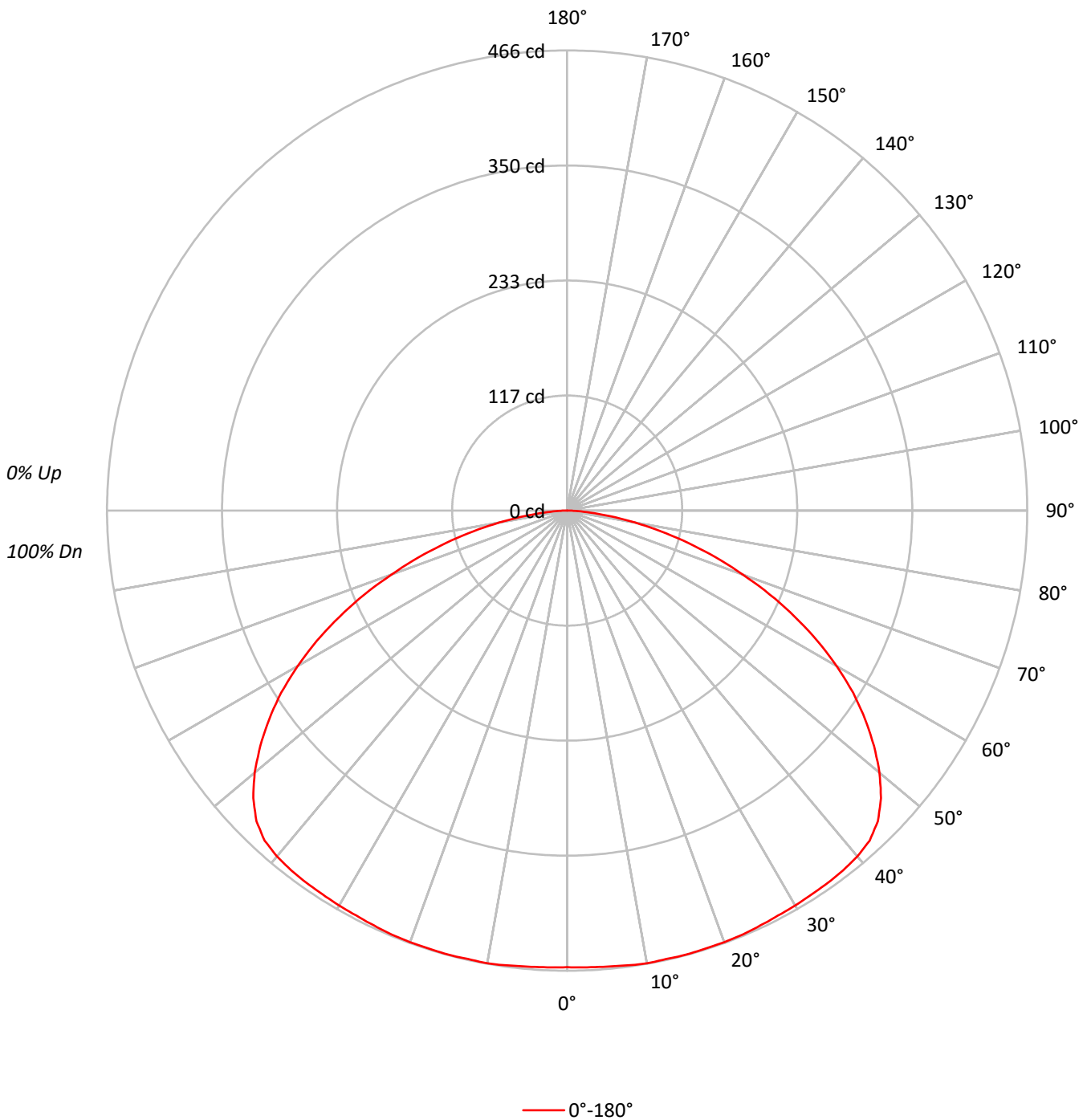
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1765.0 lumens  
Efficiency: N/A  
Efficacy: 35.0 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 50.4  
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

TEST NUMBER: P866968

CATALOG NUMBER: PRLX-2002-L-927-67L-G-X-X-BLAK-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866968

CATALOG NUMBER: PRLX-2002-L-927-67L-G-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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	44	38	66	53	44	37	51	43	37		49	42	37		48	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29		41	34	28		39	33	28	26
9	54	40	32	26	53	39	31	26	38	31	26		37	30	25		36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23		34	28	23		33	27	23	21

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

	0°
0°	2281
5°	2296
10°	2333
15°	2378
20°	2442
25°	2523
30°	2631
35°	2772
40°	2944
45°	3104
50°	3170
55°	3169
60°	3110
65°	2972
70°	2729
75°	2421
80°	1978
85°	1325

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 3175 cd/sqm

TEST NUMBER: P866968

CATALOG NUMBER: PRLX-2002-L-927-67L-G-X-X-BLAK-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.3	2.5
10°-20°	131.9	7.5
20°-30°	214.5	12.2
30°-40°	288.9	16.4
40°-50°	341.2	19.3
50°-60°	328.3	18.6
60°-70°	251.1	14.2
70°-80°	134.8	7.6
80°-90°	30.0	1.7
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°	390.7	22.1
0°-40°	679.6	38.5
0°-60°	1349.1	76.4
0°-90°	1765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1765.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	462	
5°	464	44
15°	466	132
25°	464	214
35°	460	289
45°	445	341
55°	368	328
65°	255	251
75°	127	135
85°	23	30
90°	0	

TEST NUMBER: P866968

CATALOG NUMBER: PRLX-2002-L-927-67L-G-X-X-BLAK-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	462.4
2.5°	463.0
5°	463.5
7.5°	464.6
10°	465.6
12.5°	465.1
15°	465.6
17.5°	465.1
20°	465.1
22.5°	464.6
25°	463.5
27.5°	462.4
30°	461.9
32.5°	460.8
35°	460.3
37.5°	459.2
40°	457.1
42.5°	453.4
45°	444.9
47.5°	431.1
50°	413.0
52.5°	391.7
55°	368.4
57.5°	343.4
60°	315.2
62.5°	286.0
65°	254.6
67.5°	222.2
70°	189.2
72.5°	157.9
75°	127.0
77.5°	97.3
80°	69.6
82.5°	44.1
85°	23.4
87.5°	8.0
90°	0.0

TEST NUMBER: P866968  
 CATALOG NUMBER: PRLX-2002-L-927-67L-G-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	16.63	18.34	16.99	18.66	18.97	16.63	18.34	16.99	18.66	18.97
	3H	18.38	19.94	18.76	20.26	20.62	18.38	19.94	18.76	20.26	20.62
	4H	18.99	20.45	19.38	20.80	21.17	18.99	20.45	19.38	20.80	21.17
	6H	19.38	20.74	19.79	21.11	21.50	19.38	20.74	19.79	21.11	21.50
	8H	19.48	20.79	19.91	21.17	21.57	19.48	20.79	19.91	21.17	21.57
	12H	19.54	20.78	19.96	21.16	21.59	19.54	20.78	19.96	21.16	21.59
4H	2H	17.28	18.74	17.67	19.09	19.46	17.28	18.74	17.67	19.09	19.46
	3H	19.23	20.46	19.64	20.86	21.26	19.23	20.46	19.64	20.86	21.26
	4H	19.95	21.07	20.38	21.48	21.91	19.95	21.07	20.38	21.48	21.91
	6H	20.46	21.44	20.91	21.88	22.33	20.46	21.44	20.91	21.88	22.33
	8H	20.60	21.51	21.05	21.95	22.41	20.60	21.51	21.05	21.95	22.41
	12H	20.68	21.50	21.16	21.97	22.44	20.68	21.50	21.16	21.97	22.44
8H	4H	20.24	21.15	20.70	21.59	22.06	20.24	21.15	20.70	21.59	22.06
	6H	20.84	21.60	21.33	22.09	22.56	20.84	21.60	21.33	22.09	22.56
	8H	21.03	21.71	21.53	22.21	22.69	21.03	21.71	21.53	22.21	22.69
	12H	21.15	21.75	21.66	22.24	22.80	21.15	21.75	21.66	22.24	22.80
12H	4H	20.27	21.09	20.74	21.56	22.03	20.27	21.09	20.74	21.56	22.03
	6H	20.88	21.56	21.38	22.06	22.55	20.88	21.56	21.38	22.06	22.55
	8H	21.11	21.71	21.61	22.20	22.76	21.11	21.71	21.61	22.20	22.76