

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: P866478

Luminaire Tested: PRLX-2004-M-930-15L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-M-930-15L-G-U-S-X-X-GREY-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
BELL WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

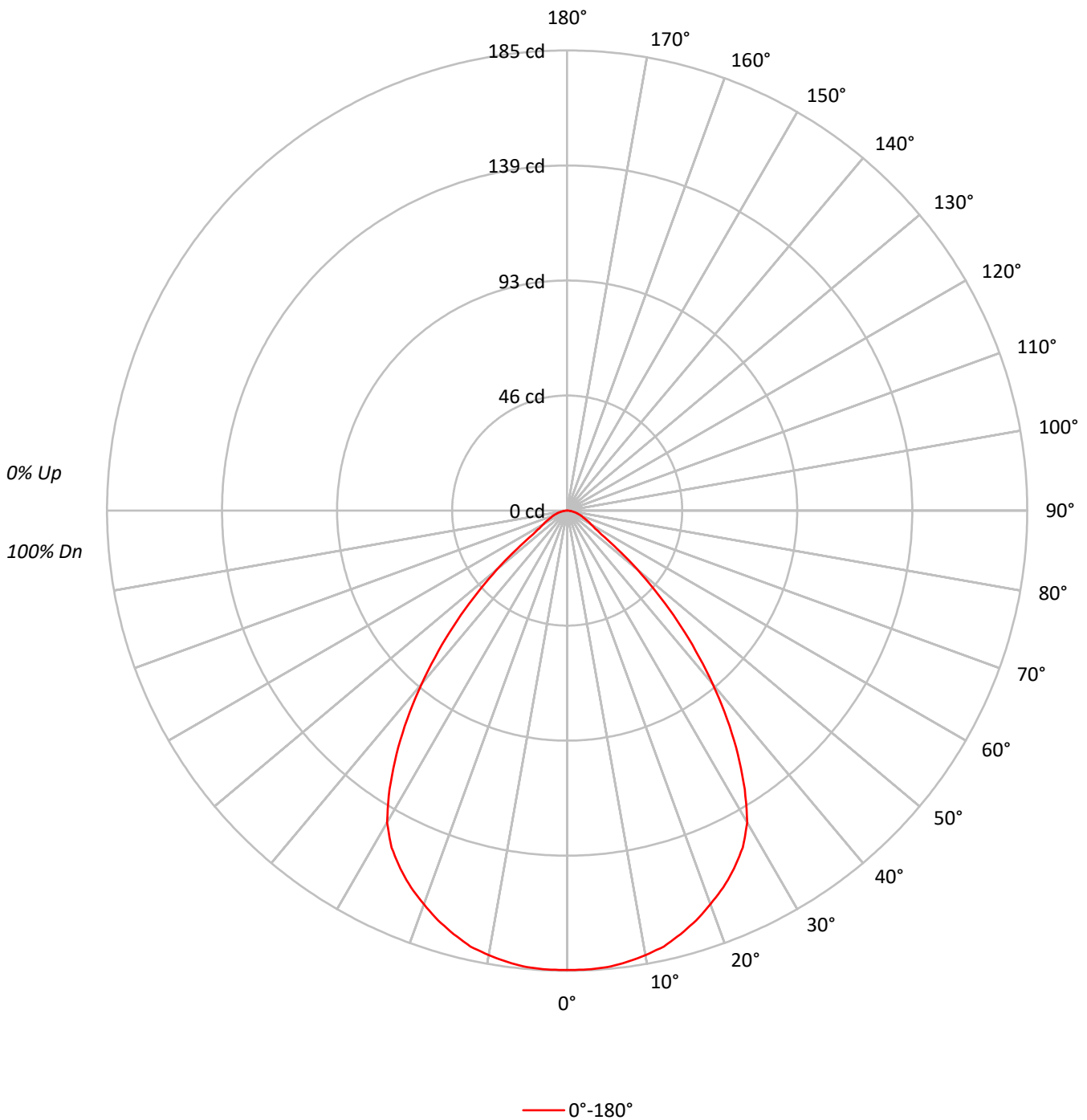
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 293.5 lumens  
Efficiency: N/A  
Efficacy: 21.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14  
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: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P866478

CATALOG NUMBER: PRLX-2004-M-930-15L-G-U-S-X-X-GREY-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866478

CATALOG NUMBER: PRLX-2004-M-930-15L-G-U-S-X-X-GREY-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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	46	43	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38

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

	0°
0°	1469
5°	1472
10°	1466
15°	1452
20°	1426
25°	1394
30°	1330
35°	1163
40°	945
45°	704
50°	454
55°	233
60°	178
65°	151
70°	140
75°	123
80°	110
85°	110

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 704 cd/sqm

TEST NUMBER: P866478

CATALOG NUMBER: PRLX-2004-M-930-15L-G-U-S-X-X-GREY-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.5	6.0
10°-20°	49.7	16.9
20°-30°	72.8	24.8
30°-40°	74.1	25.3
40°-50°	48.2	16.4
50°-60°	17.6	6.0
60°-70°	8.2	2.8
70°-80°	4.3	1.5
80°-90°	1.2	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°	140.0	47.7
0°-40°	214.1	73.0
0°-60°	279.9	95.4
0°-90°	293.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	293.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	185	
5°	184	17
15°	176	50
25°	159	73
35°	120	74
45°	63	48
55°	17	18
65°	8	8
75°	4	4
85°	1	1
90°	0	

TEST NUMBER: P866478

CATALOG NUMBER: PRLX-2004-M-930-15L-G-U-S-X-X-GREY-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	184.7
2.5°	184.7
5°	184.3
7.5°	183.1
10°	181.5
12.5°	179.5
15°	176.3
17.5°	172.7
20°	168.4
22.5°	164.0
25°	158.8
27.5°	152.8
30°	144.8
32.5°	132.9
35°	119.7
37.5°	105.7
40°	91.0
42.5°	76.6
45°	62.6
47.5°	48.7
50°	36.7
52.5°	25.5
55°	16.8
57.5°	13.2
60°	11.2
62.5°	9.6
65°	8.0
67.5°	6.8
70°	6.0
72.5°	4.8
75°	4.0
77.5°	3.2
80°	2.4
82.5°	1.6
85°	1.2
87.5°	0.4
90°	0.0

TEST NUMBER: P866478  
 CATALOG NUMBER: PRLX-2004-M-930-15L-G-U-S-X-X-GREY-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	2.43	3.69	2.80	4.00	4.31	2.43	3.69	2.80	4.00	4.31
	3H	3.61	4.72	4.00	5.05	5.42	3.61	4.72	4.00	5.05	5.42
	4H	4.06	5.09	4.46	5.44	5.82	4.06	5.09	4.46	5.44	5.82
	6H	4.39	5.33	4.80	5.70	6.10	4.39	5.33	4.80	5.70	6.10
	8H	4.48	5.37	4.91	5.76	6.17	4.48	5.37	4.91	5.76	6.17
	12H	4.55	5.40	4.98	5.79	6.22	4.55	5.40	4.98	5.79	6.22
4H	2H	2.78	3.81	3.18	4.16	4.54	2.78	3.81	3.18	4.16	4.54
	3H	4.19	5.03	4.61	5.44	5.84	4.19	5.03	4.61	5.44	5.84
	4H	4.75	5.50	5.19	5.92	6.37	4.75	5.50	5.19	5.92	6.37
	6H	5.21	5.85	5.67	6.30	6.77	5.21	5.85	5.67	6.30	6.77
	8H	5.33	5.93	5.80	6.38	6.85	5.33	5.93	5.80	6.38	6.85
	12H	5.44	5.97	5.93	6.46	6.93	5.44	5.97	5.93	6.46	6.93
8H	4H	4.93	5.53	5.40	5.98	6.45	4.93	5.53	5.40	5.98	6.45
	6H	5.49	5.97	5.99	6.47	6.95	5.49	5.97	5.99	6.47	6.95
	8H	5.67	6.11	6.20	6.63	7.12	5.67	6.11	6.20	6.63	7.12
	12H	5.86	6.25	6.38	6.75	7.32	5.86	6.25	6.38	6.75	7.32
12H	4H	4.92	5.45	5.41	5.94	6.41	4.92	5.45	5.41	5.94	6.41
	6H	5.50	5.94	6.02	6.46	6.95	5.50	5.94	6.02	6.46	6.95
	8H	5.74	6.13	6.25	6.62	7.20	5.74	6.13	6.25	6.62	7.20