

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: P866225

Luminaire Tested: PRLX-2002-M-930-15L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-930-15L-L-U-S-X-X-BRSS-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

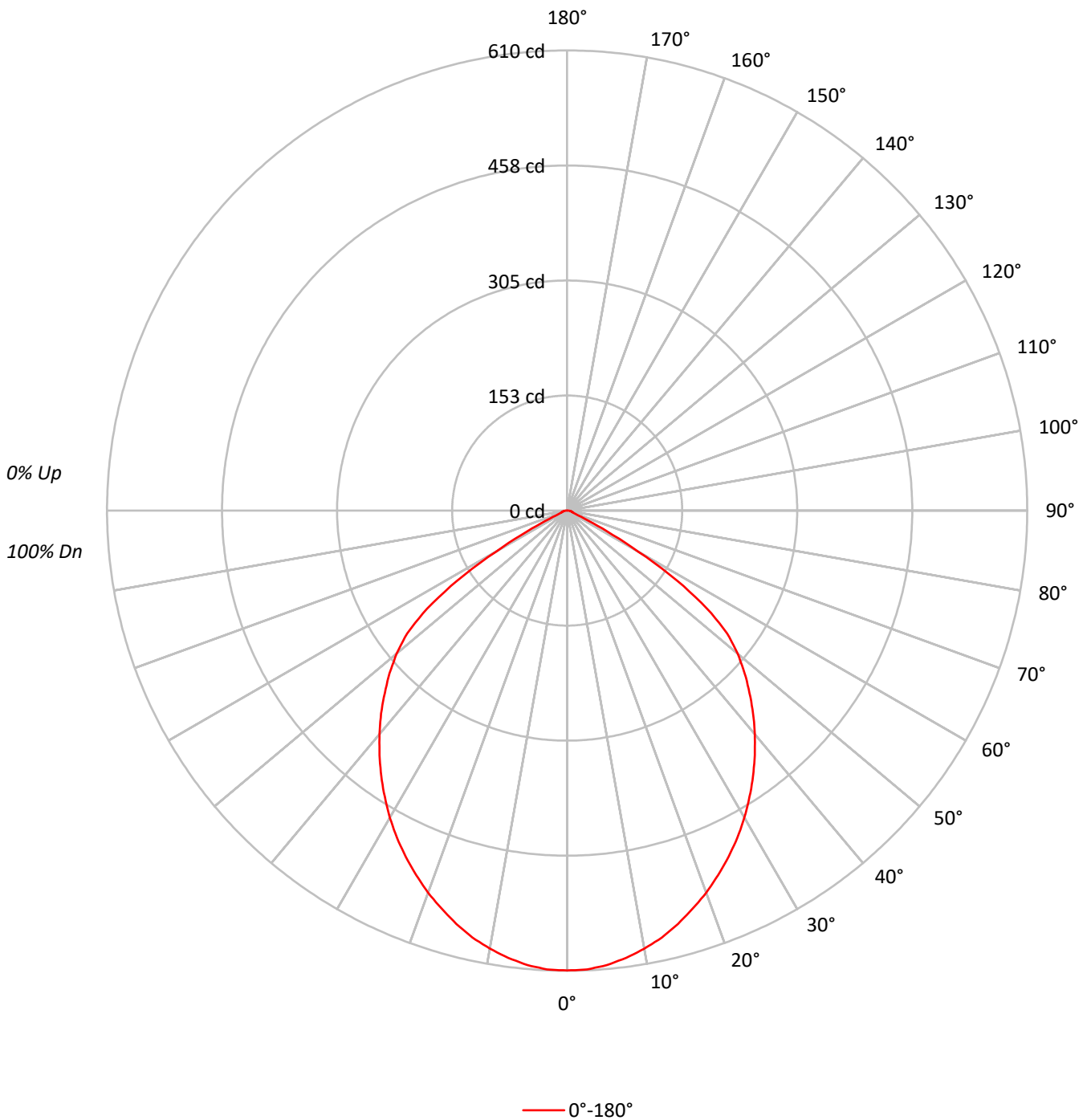
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1224.0 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
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: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P866225

CATALOG NUMBER: PRLX-2002-M-930-15L-L-U-S-X-X-BRSS-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866225

CATALOG NUMBER: PRLX-2002-M-930-15L-L-U-S-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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	45	38	34	44	38	34	44	38	33	43	37	33	32

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

	0°
0°	4850
5°	4830
10°	4763
15°	4673
20°	4563
25°	4444
30°	4318
35°	4173
40°	4019
45°	3847
50°	3649
55°	3143
60°	1733
65°	488
70°	195
75°	209
80°	238
85°	292

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3847 cd/sqm

TEST NUMBER: P866225

CATALOG NUMBER: PRLX-2002-M-930-15L-L-U-S-X-X-BRSS-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.2	4.7
10°-20°	159.7	13.1
20°-30°	233.1	19.0
30°-40°	268.6	21.9
40°-50°	263.7	21.5
50°-60°	193.4	15.8
60°-70°	37.9	3.1
70°-80°	7.2	0.6
80°-90°	3.2	0.3
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°	450.1	36.8
0°-40°	718.7	58.7
0°-60°	1175.7	96.1
0°-90°	1224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	610	
5°	605	57
15°	567	160
25°	506	233
35°	430	269
45°	342	264
55°	227	193
65°	26	38
75°	7	7
85°	3	3
90°	0	

TEST NUMBER: P866225

CATALOG NUMBER: PRLX-2002-M-930-15L-L-U-S-X-X-BRSS-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	609.6
2.5°	608.8
5°	604.8
7.5°	598.0
10°	589.6
12.5°	579.7
15°	567.3
17.5°	553.3
20°	539.0
22.5°	523.0
25°	506.3
27.5°	488.7
30°	470.0
32.5°	450.0
35°	429.7
37.5°	408.5
40°	387.0
42.5°	365.0
45°	341.9
47.5°	319.2
50°	294.8
52.5°	267.3
55°	226.6
57.5°	173.5
60°	108.9
62.5°	58.6
65°	25.9
67.5°	12.0
70°	8.4
72.5°	7.6
75°	6.8
77.5°	6.0
80°	5.2
82.5°	4.4
85°	3.2
87.5°	1.6
90°	0.0



TEST NUMBER: P866225  
 CATALOG NUMBER: PRLX-2002-M-930-15L-L-U-S-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	15.03	16.46	15.39	16.77	17.09	15.03	16.46	15.39	16.77	17.09
	3H	14.93	16.19	15.31	16.52	16.89	14.93	16.19	15.31	16.52	16.89
	4H	14.88	16.05	15.28	16.40	16.78	14.88	16.05	15.28	16.40	16.78
	6H	14.83	15.90	15.24	16.27	16.66	14.83	15.90	15.24	16.27	16.66
	8H	14.80	15.82	15.23	16.21	16.61	14.80	15.82	15.23	16.21	16.61
	12H	14.77	15.74	15.20	16.12	16.55	14.77	15.74	15.20	16.12	16.55
4H	2H	14.89	16.06	15.29	16.41	16.79	14.89	16.06	15.29	16.41	16.79
	3H	14.81	15.75	15.22	16.15	16.56	14.81	15.75	15.22	16.15	16.56
	4H	14.75	15.59	15.18	16.01	16.45	14.75	15.59	15.18	16.01	16.45
	6H	14.70	15.43	15.17	15.87	16.34	14.70	15.43	15.17	15.87	16.34
	8H	14.67	15.35	15.14	15.79	16.26	14.67	15.35	15.14	15.79	16.26
	12H	14.64	15.24	15.13	15.73	16.20	14.64	15.24	15.13	15.73	16.20
8H	4H	14.63	15.31	15.10	15.76	16.23	14.63	15.31	15.10	15.76	16.23
	6H	14.57	15.13	15.08	15.63	16.11	14.57	15.13	15.08	15.63	16.11
	8H	14.54	15.05	15.06	15.56	16.05	14.54	15.05	15.06	15.56	16.05
	12H	14.52	14.98	15.04	15.47	16.04	14.52	14.98	15.04	15.47	16.04
12H	4H	14.59	15.19	15.08	15.67	16.15	14.59	15.19	15.08	15.67	16.15
	6H	14.52	15.02	15.04	15.54	16.03	14.52	15.02	15.04	15.54	16.03
	8H	14.50	14.96	15.02	15.45	16.02	14.50	14.96	15.02	15.45	16.02