

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: P867010

Luminaire Tested: PRLX-2002-L-930-15L-G-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-930-15L-G-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

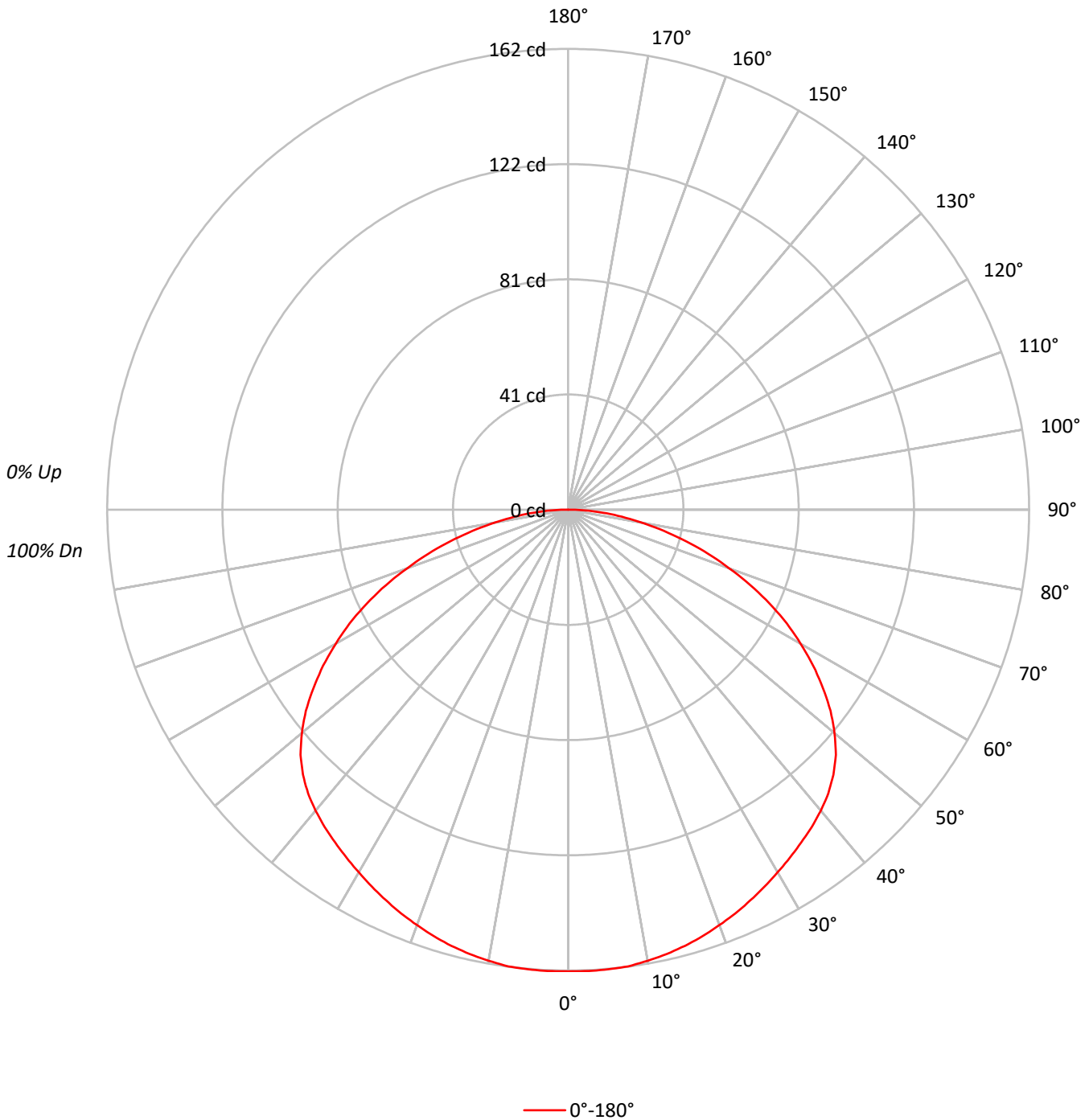
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 555.2 lumens  
Efficiency: N/A  
Efficacy: 33.9 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.4  
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

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### Luminous Intensity Polar Plot





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**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	98	94	105	101	96	93	96	93	90		92	89	87		89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73		80	75	71		77	73	69	67
3	88	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	57	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	45	38	66	53	44	38	51	43	37		50	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	23		34	28	23	22

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

	0°
0°	801
5°	803
10°	807
15°	811
20°	816
25°	825
30°	839
35°	860
40°	889
45°	920
50°	938
55°	940
60°	932
65°	912
70°	868
75°	818
80°	753
85°	696

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 942 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.4	2.8
10°-20°	44.9	8.1
20°-30°	70.0	12.6
30°-40°	89.6	16.1
40°-50°	101.5	18.3
50°-60°	97.5	17.6
60°-70°	77.1	13.9
70°-80°	45.4	8.2
80°-90°	13.8	2.5
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°	130.3	23.5
0°-40°	219.9	39.6
0°-60°	418.8	75.4
0°-90°	555.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	555.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	162	
5°	162	15
15°	159	45
25°	152	70
35°	143	90
45°	132	101
55°	109	98
65°	78	77
75°	43	45
85°	12	14
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	162.3
2.5°	162.3
5°	162.2
7.5°	161.9
10°	161.0
12.5°	160.0
15°	158.7
17.5°	157.2
20°	155.4
22.5°	153.6
25°	151.5
27.5°	149.4
30°	147.2
32.5°	145.0
35°	142.8
37.5°	140.6
40°	138.1
42.5°	135.3
45°	131.8
47.5°	127.6
50°	122.2
52.5°	116.2
55°	109.3
57.5°	102.1
60°	94.4
62.5°	86.6
65°	78.1
67.5°	69.4
70°	60.2
72.5°	51.6
75°	42.9
77.5°	34.4
80°	26.5
82.5°	19.0
85°	12.3
87.5°	6.3
90°	0.0



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**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	12.23	13.94	12.60	14.25	14.57	12.23	13.94	12.60	14.25	14.57
	3H	14.15	15.70	14.52	16.02	16.38	14.15	15.70	14.52	16.02	16.38
	4H	14.87	16.33	15.27	16.68	17.06	14.87	16.33	15.27	16.68	17.06
	6H	15.42	16.78	15.83	17.14	17.53	15.42	16.78	15.83	17.14	17.53
	8H	15.60	16.90	16.03	17.29	17.69	15.60	16.90	16.03	17.29	17.69
	12H	15.74	16.99	16.17	17.37	17.80	15.74	16.99	16.17	17.37	17.80
4H	2H	12.92	14.38	13.31	14.73	15.10	12.92	14.38	13.31	14.73	15.10
	3H	15.05	16.28	15.46	16.68	17.08	15.05	16.28	15.46	16.68	17.08
	4H	15.90	17.02	16.33	17.43	17.87	15.90	17.02	16.33	17.43	17.87
	6H	16.58	17.56	17.03	18.00	18.45	16.58	17.56	17.03	18.00	18.45
	8H	16.82	17.74	17.28	18.18	18.64	16.82	17.74	17.28	18.18	18.64
	12H	17.01	17.84	17.49	18.31	18.78	17.01	17.84	17.49	18.31	18.78
8H	4H	16.24	17.17	16.70	17.61	18.07	16.24	17.17	16.70	17.61	18.07
	6H	17.05	17.82	17.55	18.31	18.78	17.05	17.82	17.55	18.31	18.78
	8H	17.38	18.07	17.88	18.57	19.06	17.38	18.07	17.88	18.57	19.06
	12H	17.65	18.27	18.16	18.75	19.31	17.65	18.27	18.16	18.75	19.31
12H	4H	16.29	17.12	16.77	17.59	18.06	16.29	17.12	16.77	17.59	18.06
	6H	17.13	17.82	17.63	18.32	18.81	17.13	17.82	17.63	18.32	18.81
	8H	17.51	18.12	18.02	18.61	19.17	17.51	18.12	18.02	18.61	19.17