

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: P867008

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867008  
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-930-15L-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 1  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

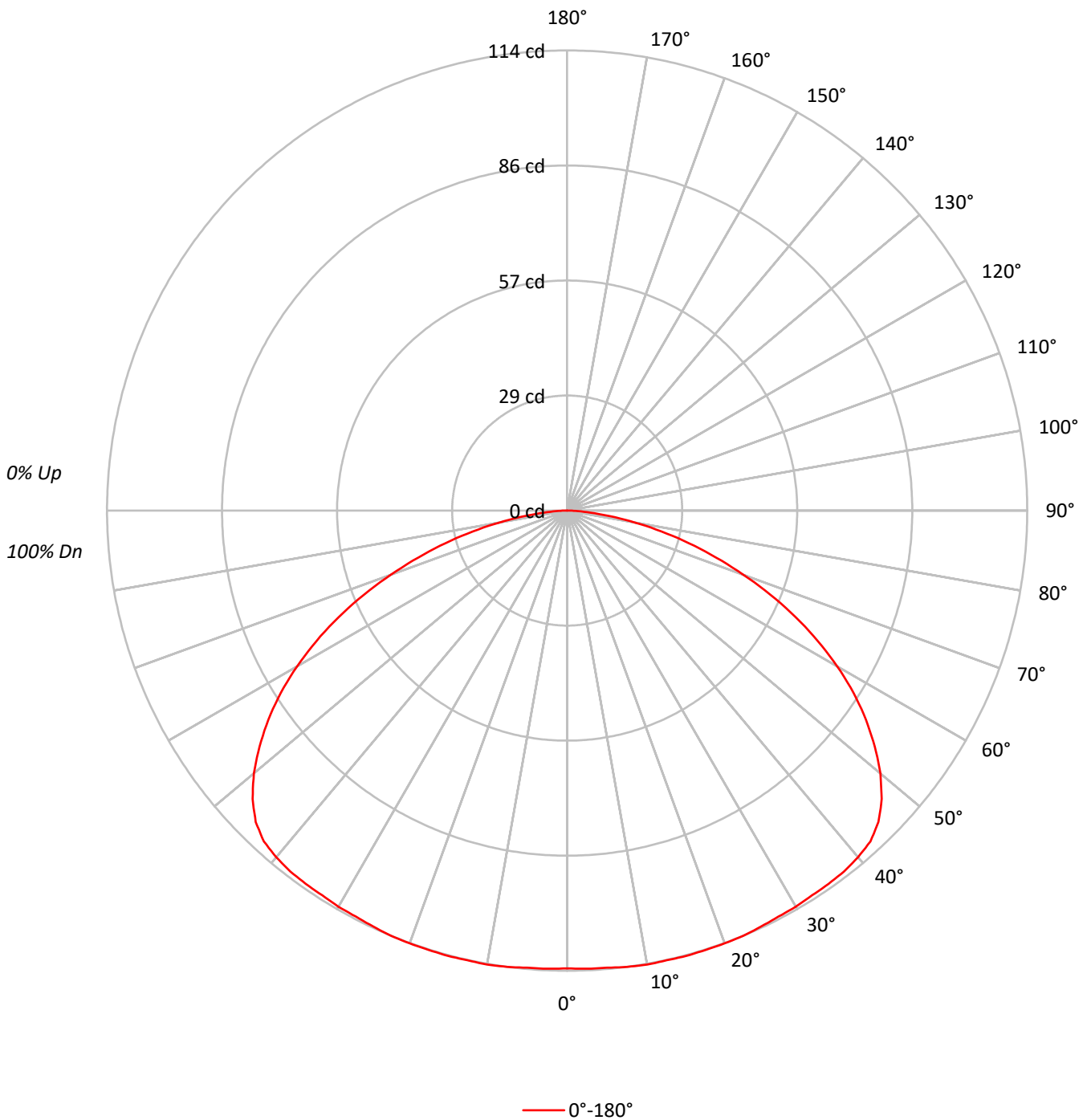
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 432.9 lumens  
Efficiency: N/A  
Efficacy: 26.4 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): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	51	64	56	51	62	55	50	59	54	49
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36
7	63	48	39	33	61	48	39	33	46	38	32	44	37	32	43	37	32
8	58	44	35	29	56	43	35	29	42	34	29	41	34	28	39	33	28
9	54	40	32	26	53	39	31	26	38	31	26	37	30	25	36	30	25
10	50	37	29	23	49	36	28	23	35	28	23	34	28	23	33	27	23

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

	0°
0°	559
5°	563
10°	572
15°	583
20°	599
25°	619
30°	645
35°	680
40°	722
45°	761
50°	778
55°	778
60°	763
65°	730
70°	669
75°	595
80°	486
85°	323

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 779 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.9	2.5
10°-20°	32.4	7.5
20°-30°	52.6	12.2
30°-40°	70.9	16.4
40°-50°	83.7	19.3
50°-60°	80.5	18.6
60°-70°	61.6	14.2
70°-80°	33.1	7.6
80°-90°	7.4	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°	95.8	22.1
0°-40°	166.7	38.5
0°-60°	330.9	76.4
0°-90°	432.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	432.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	113	
5°	114	11
15°	114	32
25°	114	53
35°	113	71
45°	109	84
55°	90	81
65°	62	62
75°	31	33
85°	6	7
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	113.4
2.5°	113.6
5°	113.7
7.5°	114.0
10°	114.2
12.5°	114.1
15°	114.2
17.5°	114.1
20°	114.1
22.5°	114.0
25°	113.7
27.5°	113.4
30°	113.3
32.5°	113.0
35°	112.9
37.5°	112.7
40°	112.1
42.5°	111.2
45°	109.1
47.5°	105.7
50°	101.3
52.5°	96.1
55°	90.4
57.5°	84.2
60°	77.3
62.5°	70.1
65°	62.5
67.5°	54.5
70°	46.4
72.5°	38.7
75°	31.2
77.5°	23.9
80°	17.1
82.5°	10.8
85°	5.7
87.5°	2.0
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	11.74	13.46	12.11	13.77	14.09	11.74	13.46	12.11	13.77	14.09
	3H	13.50	15.05	13.87	15.38	15.74	13.50	15.05	13.87	15.38	15.74
	4H	14.10	15.57	14.50	15.92	16.29	14.10	15.57	14.50	15.92	16.29
	6H	14.50	15.86	14.91	16.23	16.62	14.50	15.86	14.91	16.23	16.62
	8H	14.60	15.90	15.03	16.29	16.69	14.60	15.90	15.03	16.29	16.69
	12H	14.65	15.90	15.08	16.28	16.71	14.65	15.90	15.08	16.28	16.71
4H	2H	12.39	13.86	12.79	14.21	14.58	12.39	13.86	12.79	14.21	14.58
	3H	14.35	15.58	14.76	15.98	16.37	14.35	15.58	14.76	15.98	16.37
	4H	15.07	16.19	15.50	16.60	17.03	15.07	16.19	15.50	16.60	17.03
	6H	15.58	16.56	16.03	16.99	17.45	15.58	16.56	16.03	16.99	17.45
	8H	15.72	16.63	16.17	17.07	17.53	15.72	16.63	16.17	17.07	17.53
	12H	15.80	16.62	16.27	17.09	17.56	15.80	16.62	16.27	17.09	17.56
8H	4H	15.36	16.27	15.82	16.71	17.17	15.36	16.27	15.82	16.71	17.17
	6H	15.96	16.72	16.45	17.20	17.68	15.96	16.72	16.45	17.20	17.68
	8H	16.14	16.83	16.65	17.33	17.81	16.14	16.83	16.65	17.33	17.81
	12H	16.27	16.87	16.77	17.36	17.92	16.27	16.87	16.77	17.36	17.92
12H	4H	15.38	16.21	15.86	16.68	17.15	15.38	16.21	15.86	16.68	17.15
	6H	16.00	16.68	16.50	17.18	17.67	16.00	16.68	16.50	17.18	17.67
	8H	16.23	16.83	16.73	17.32	17.88	16.23	16.83	16.73	17.32	17.88