

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: P867022

Luminaire Tested: PRLX-2002-L-930-48L-L-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-L-930-48L-L-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

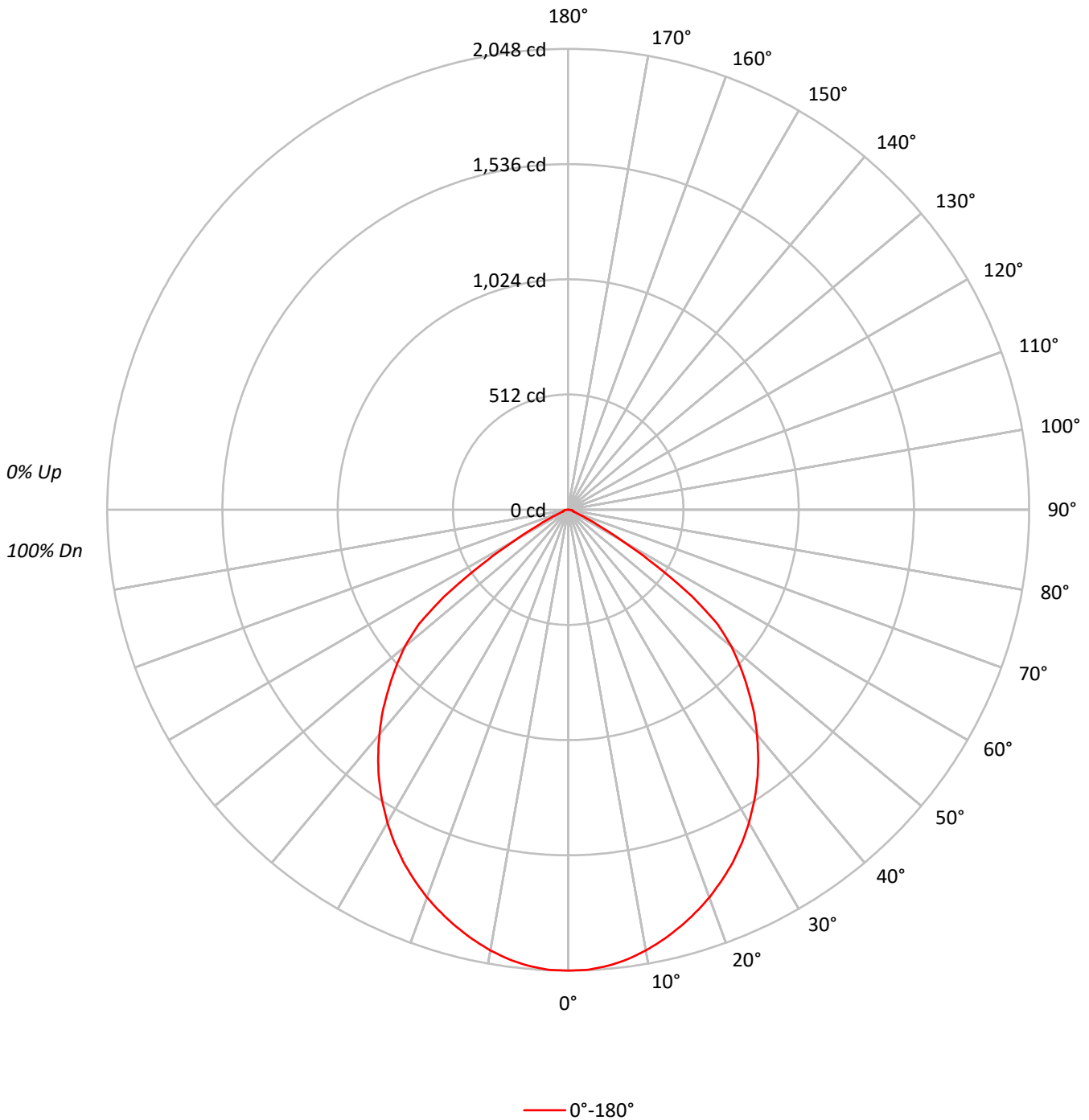
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4026.0 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.5  
Input Voltage (V): 120  
Input Current (Ain): 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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

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

	0°
0°	10106
5°	10076
10°	9964
15°	9805
20°	9626
25°	9414
30°	9149
35°	8825
40°	8402
45°	7885
50°	7267
55°	5776
60°	2719
65°	982
70°	378
75°	419
80°	480
85°	572

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7885 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.8	4.8
10°-20°	540.9	13.4
20°-30°	795.7	19.8
30°-40°	914.1	22.7
40°-50°	870.7	21.6
50°-60°	572.6	14.2
60°-70°	105.8	2.6
70°-80°	23.1	0.6
80°-90°	10.3	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°	1529.4	38.0
0°-40°	2443.5	60.7
0°-60°	3886.8	96.5
0°-90°	4026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2048	
5°	2034	193
15°	1920	541
25°	1729	796
35°	1465	914
45°	1130	871
55°	672	573
65°	84	106
75°	22	23
85°	10	10
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2048.4
2.5°	2046.3
5°	2034.5
7.5°	2015.5
10°	1988.8
12.5°	1956.3
15°	1919.5
17.5°	1878.1
20°	1833.3
22.5°	1783.4
25°	1729.3
27.5°	1670.2
30°	1605.9
32.5°	1537.1
35°	1465.2
37.5°	1386.6
40°	1304.6
42.5°	1220.5
45°	1130.1
47.5°	1040.5
50°	946.7
52.5°	836.8
55°	671.5
57.5°	460.2
60°	275.5
62.5°	155.1
65°	84.1
67.5°	42.3
70°	26.2
72.5°	24.1
75°	22.0
77.5°	19.9
80°	16.9
82.5°	13.9
85°	10.1
87.5°	5.5
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	16.03	17.43	16.39	17.74	18.06	16.03	17.43	16.39	17.74	18.06
	3H	15.95	17.18	16.33	17.51	17.87	15.95	17.18	16.33	17.51	17.87
	4H	15.90	17.04	16.30	17.39	17.78	15.90	17.04	16.30	17.39	17.78
	6H	15.85	16.90	16.26	17.27	17.67	15.85	16.90	16.26	17.27	17.67
	8H	15.82	16.82	16.25	17.21	17.62	15.82	16.82	16.25	17.21	17.62
	12H	15.80	16.75	16.23	17.13	17.56	15.80	16.75	16.23	17.13	17.56
4H	2H	15.90	17.05	16.31	17.40	17.78	15.90	17.05	16.31	17.40	17.78
	3H	15.83	16.76	16.25	17.16	17.57	15.83	16.76	16.25	17.16	17.57
	4H	15.78	16.61	16.22	17.02	17.47	15.78	16.61	16.22	17.02	17.47
	6H	15.75	16.46	16.21	16.91	17.37	15.75	16.46	16.21	16.91	17.37
	8H	15.72	16.39	16.19	16.83	17.30	15.72	16.39	16.19	16.83	17.30
	12H	15.70	16.29	16.19	16.77	17.25	15.70	16.29	16.19	16.77	17.25
8H	4H	15.67	16.33	16.14	16.78	17.25	15.67	16.33	16.14	16.78	17.25
	6H	15.63	16.18	16.13	16.67	17.15	15.63	16.18	16.13	16.67	17.15
	8H	15.61	16.10	16.13	16.62	17.11	15.61	16.10	16.13	16.62	17.11
	12H	15.61	16.05	16.12	16.54	17.11	15.61	16.05	16.12	16.54	17.11
12H	4H	15.63	16.22	16.11	16.70	17.17	15.63	16.22	16.11	16.70	17.17
	6H	15.58	16.07	16.10	16.59	17.08	15.58	16.07	16.10	16.59	17.08
	8H	15.58	16.02	16.09	16.52	17.09	15.58	16.02	16.09	16.52	17.09