

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: P867021

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867021  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-930-48L-L-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

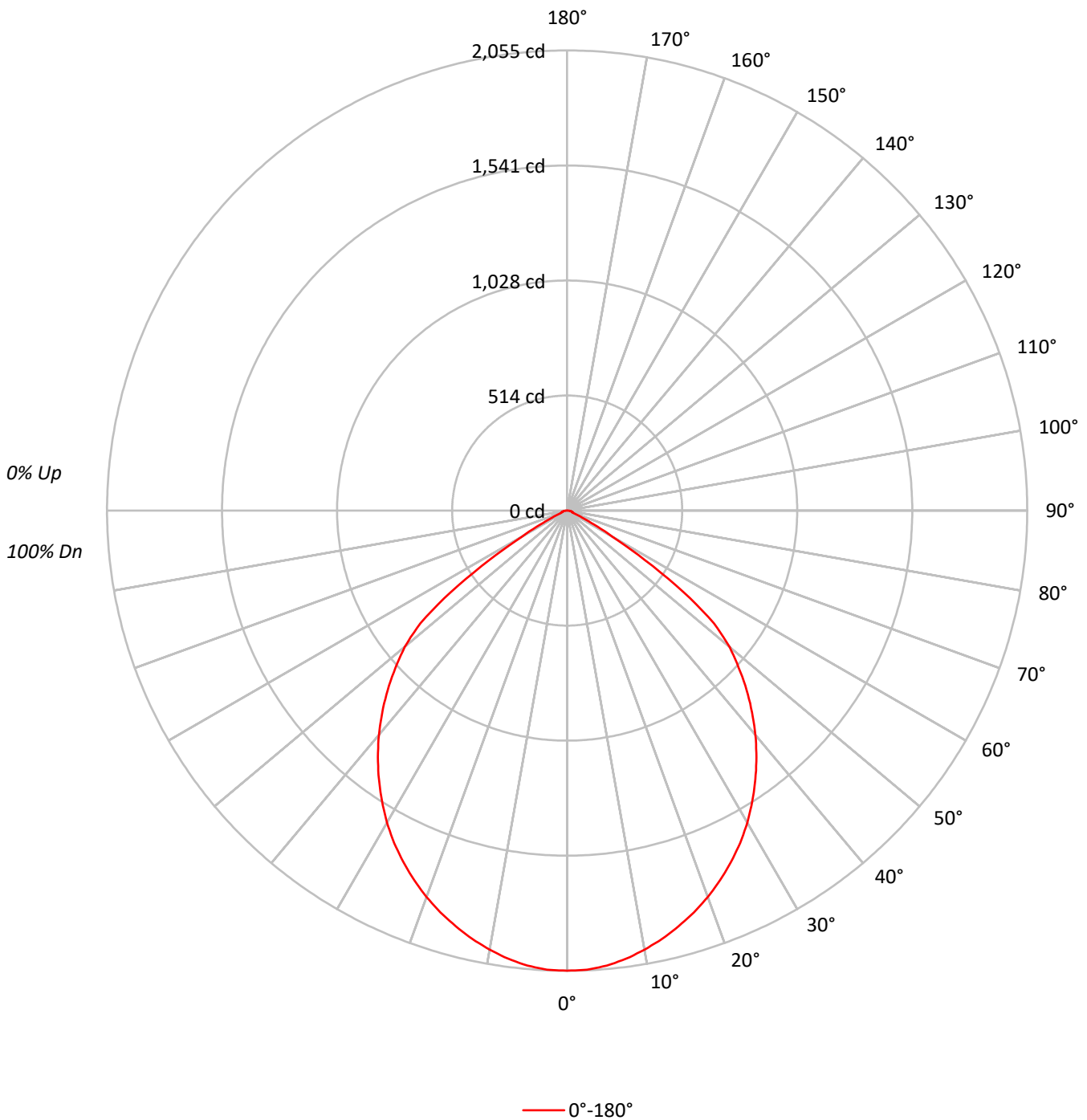
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3989.4 lumens  
Efficiency: N/A  
Efficacy: 106.4 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 (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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	77	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33

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

	0°
0°	10138
5°	10101
10°	9974
15°	9818
20°	9641
25°	9426
30°	9166
35°	8827
40°	8424
45°	7912
50°	7270
55°	5467
60°	2302
65°	849
70°	389
75°	427
80°	492
85°	572

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7912 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.1	4.8
10°-20°	541.8	13.6
20°-30°	797.0	20.0
30°-40°	915.3	22.9
40°-50°	871.9	21.9
50°-60°	546.1	13.7
60°-70°	90.4	2.3
70°-80°	23.6	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°	1531.9	38.4
0°-40°	2447.2	61.3
0°-60°	3865.1	96.9
0°-90°	3989.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3989.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2055	
5°	2040	193
15°	1922	542
25°	1732	797
35°	1466	915
45°	1134	872
55°	636	546
65°	73	90
75°	22	24
85°	10	10
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2054.8
2.5°	2052.6
5°	2039.5
7.5°	2018.8
10°	1990.9
12.5°	1959.3
15°	1922.1
17.5°	1881.5
20°	1836.3
22.5°	1786.0
25°	1731.5
27.5°	1673.6
30°	1608.9
32.5°	1538.7
35°	1465.6
37.5°	1388.7
40°	1308.0
42.5°	1222.2
45°	1133.9
47.5°	1039.6
50°	947.1
52.5°	827.1
55°	635.6
57.5°	410.8
60°	233.3
62.5°	132.3
65°	72.7
67.5°	34.2
70°	27.0
72.5°	24.9
75°	22.4
77.5°	19.9
80°	17.3
82.5°	13.9
85°	10.1
87.5°	5.1
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	15.27	16.66	15.63	16.97	17.29	15.27	16.66	15.63	16.97	17.29
	3H	15.18	16.41	15.56	16.74	17.10	15.18	16.41	15.56	16.74	17.10
	4H	15.14	16.28	15.54	16.63	17.01	15.14	16.28	15.54	16.63	17.01
	6H	15.10	16.14	15.51	16.51	16.91	15.10	16.14	15.51	16.51	16.91
	8H	15.08	16.07	15.51	16.46	16.86	15.08	16.07	15.51	16.46	16.86
	12H	15.05	16.00	15.49	16.38	16.81	15.05	16.00	15.49	16.38	16.81
4H	2H	15.14	16.27	15.54	16.62	17.01	15.14	16.27	15.54	16.62	17.01
	3H	15.07	15.99	15.48	16.39	16.79	15.07	15.99	15.48	16.39	16.79
	4H	15.03	15.84	15.46	16.26	16.70	15.03	15.84	15.46	16.26	16.70
	6H	15.01	15.71	15.47	16.16	16.62	15.01	15.71	15.47	16.16	16.62
	8H	14.99	15.64	15.45	16.09	16.56	14.99	15.64	15.45	16.09	16.56
	12H	14.97	15.56	15.46	16.04	16.51	14.97	15.56	15.46	16.04	16.51
8H	4H	14.92	15.58	15.39	16.02	16.49	14.92	15.58	15.39	16.02	16.49
	6H	14.90	15.44	15.40	15.94	16.42	14.90	15.44	15.40	15.94	16.42
	8H	14.88	15.38	15.40	15.89	16.38	14.88	15.38	15.40	15.89	16.38
	12H	14.89	15.33	15.40	15.83	16.40	14.89	15.33	15.40	15.83	16.40
12H	4H	14.88	15.46	15.36	15.94	16.42	14.88	15.46	15.36	15.94	16.42
	6H	14.84	15.34	15.37	15.85	16.34	14.84	15.34	15.37	15.85	16.34
	8H	14.86	15.30	15.37	15.79	16.36	14.86	15.30	15.37	15.79	16.36