

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: P865649

Luminaire Tested: PRLX-2002-S-930-25L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-S-930-25L-L-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

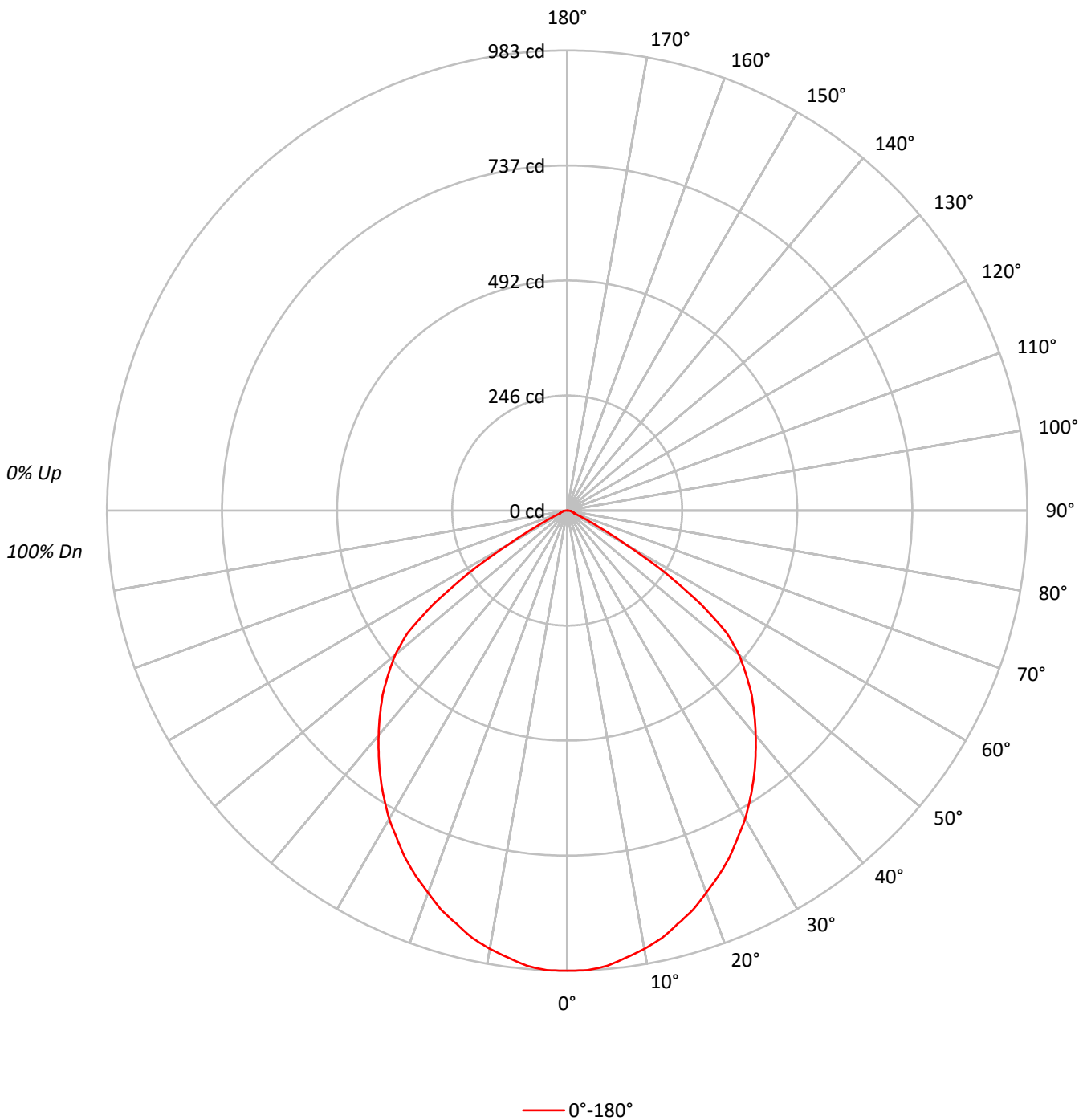
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1958.3 lumens  
Efficiency: N/A  
Efficacy: 67.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.1  
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: 0.333 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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	37	34	32

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

	0°
0°	18465
5°	18413
10°	18132
15°	17771
20°	17361
25°	16971
30°	16495
35°	15951
40°	15363
45°	14807
50°	14015
55°	11390
60°	5436
65°	1729
70°	829
75°	944
80°	930
85°	1401

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14807 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.3	4.7
10°-20°	257.7	13.2
20°-30°	376.5	19.2
30°-40°	434.7	22.2
40°-50°	428.4	21.9
50°-60°	297.7	15.2
60°-70°	51.7	2.6
70°-80°	13.4	0.7
80°-90°	5.9	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°	726.5	37.1
0°-40°	1161.2	59.3
0°-60°	1887.3	96.4
0°-90°	1958.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1958.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	983	
5°	976	92
15°	914	258
25°	819	377
35°	696	435
45°	557	428
55°	348	298
65°	39	52
75°	13	13
85°	6	6
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	983.0
2.5°	983.0
5°	976.5
7.5°	963.5
10°	950.6
12.5°	935.4
15°	913.8
17.5°	894.4
20°	868.5
22.5°	844.7
25°	818.8
27.5°	788.5
30°	760.5
32.5°	728.1
35°	695.6
37.5°	661.1
40°	626.5
42.5°	591.9
45°	557.4
47.5°	518.5
50°	479.6
52.5°	429.9
55°	347.8
57.5°	250.6
60°	144.7
62.5°	75.6
65°	38.9
67.5°	17.3
70°	15.1
72.5°	15.1
75°	13.0
77.5°	10.8
80°	8.6
82.5°	8.6
85°	6.5
87.5°	2.2
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	18.92	20.34	19.28	20.65	20.97	18.92	20.34	19.28	20.65	20.97
	3H	18.83	20.08	19.21	20.41	20.77	18.83	20.08	19.21	20.41	20.77
	4H	18.79	19.95	19.19	20.30	20.68	18.79	19.95	19.19	20.30	20.68
	6H	18.74	19.81	19.15	20.17	20.57	18.74	19.81	19.15	20.17	20.57
	8H	18.72	19.73	19.14	20.12	20.52	18.72	19.73	19.14	20.12	20.52
	12H	18.70	19.66	19.13	20.05	20.48	18.70	19.66	19.13	20.05	20.48
4H	2H	18.78	19.94	19.18	20.29	20.67	18.78	19.94	19.18	20.29	20.67
	3H	18.71	19.64	19.12	20.05	20.45	18.71	19.64	19.12	20.05	20.45
	4H	18.66	19.50	19.10	19.92	20.36	18.66	19.50	19.10	19.92	20.36
	6H	18.63	19.35	19.09	19.80	20.26	18.63	19.35	19.09	19.80	20.26
	8H	18.61	19.28	19.08	19.73	20.20	18.61	19.28	19.08	19.73	20.20
	12H	18.60	19.20	19.09	19.68	20.15	18.60	19.20	19.09	19.68	20.15
8H	4H	18.56	19.23	19.02	19.67	20.14	18.56	19.23	19.02	19.67	20.14
	6H	18.51	19.07	19.02	19.57	20.05	18.51	19.07	19.02	19.57	20.05
	8H	18.50	19.01	19.02	19.52	20.01	18.50	19.01	19.02	19.52	20.01
	12H	18.51	18.97	19.03	19.46	20.03	18.51	18.97	19.03	19.46	20.03
12H	4H	18.52	19.11	19.00	19.59	20.07	18.52	19.11	19.00	19.59	20.07
	6H	18.46	18.97	18.98	19.48	19.97	18.46	18.97	18.98	19.48	19.97
	8H	18.47	18.93	18.99	19.42	19.99	18.47	18.93	18.99	19.42	19.99