

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: P866057

Luminaire Tested: PRLX-2001-M-935-45L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-935-45L-L-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

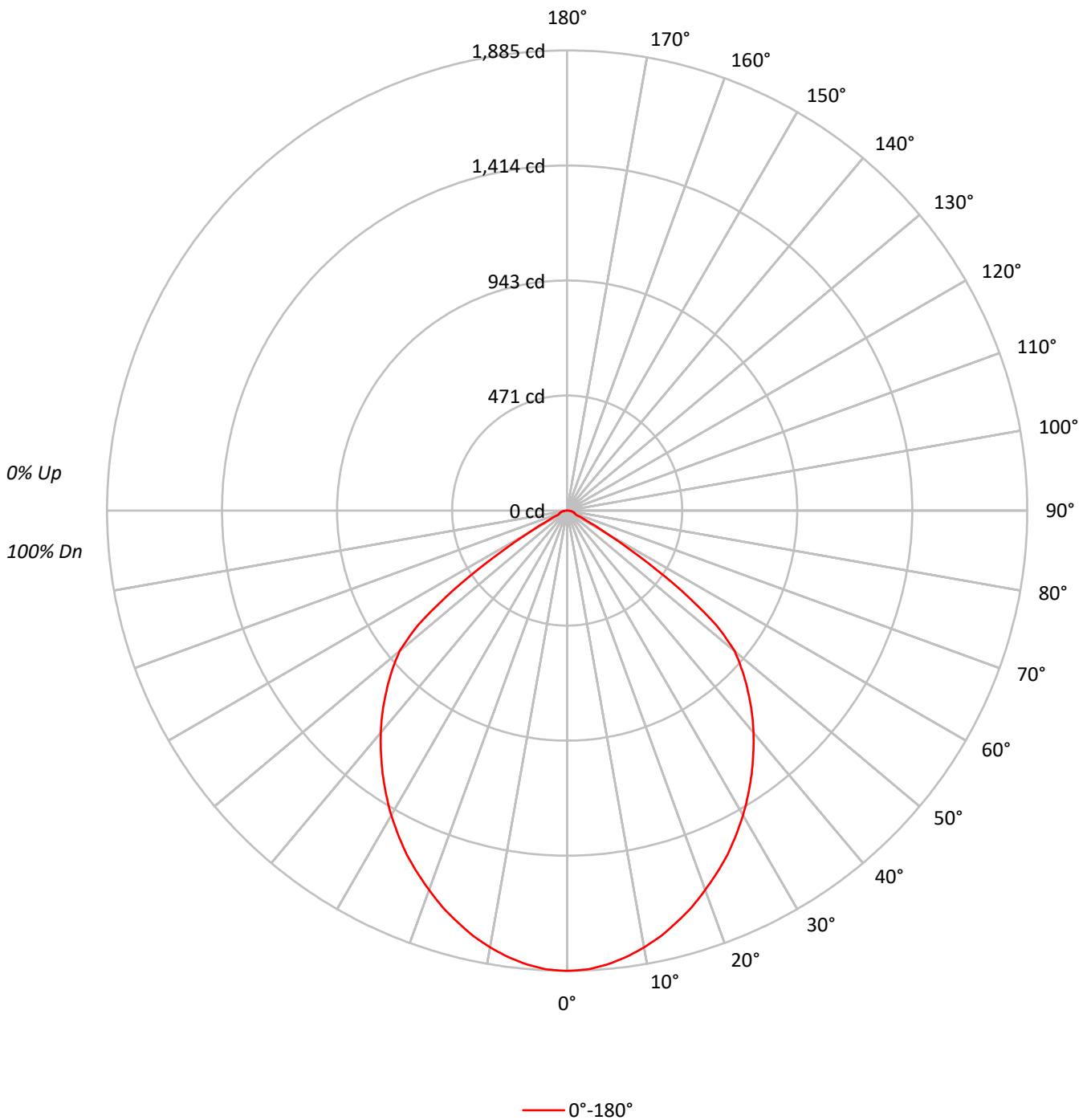
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3615.7 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.8  
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	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	76	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	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	42	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33

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

	0°
0°	16000
5°	15905
10°	15657
15°	15319
20°	14931
25°	14555
30°	14119
35°	13650
40°	13161
45°	12573
50°	11833
55°	8455
60°	3150
65°	833
70°	819
75°	882
80°	953
85°	954

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12573 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.6	4.9
10°-20°	491.2	13.6
20°-30°	715.2	19.8
30°-40°	823.7	22.8
40°-50°	807.0	22.3
50°-60°	495.5	13.7
60°-70°	67.5	1.9
70°-80°	28.2	0.8
80°-90°	10.7	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°	1383.1	38.3
0°-40°	2206.8	61.0
0°-60°	3509.3	97.1
0°-90°	3615.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3615.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1885	
5°	1867	177
15°	1744	491
25°	1554	715
35°	1318	824
45°	1048	807
55°	572	496
65°	42	67
75°	27	28
85°	10	11
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1885.4
2.5°	1881.7
5°	1867.1
7.5°	1845.1
10°	1817.0
12.5°	1784.0
15°	1743.7
17.5°	1702.2
20°	1653.4
22.5°	1605.7
25°	1554.5
27.5°	1498.3
30°	1440.9
32.5°	1379.8
35°	1317.6
37.5°	1252.9
40°	1188.1
42.5°	1119.8
45°	1047.7
47.5°	974.4
50°	896.3
52.5°	770.5
55°	571.5
57.5°	355.3
60°	185.6
62.5°	90.4
65°	41.5
67.5°	34.2
70°	33.0
72.5°	30.5
75°	26.9
77.5°	23.2
80°	19.5
82.5°	14.7
85°	9.8
87.5°	4.9
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	16.46	17.85	16.82	18.16	18.48	16.46	17.85	16.82	18.16	18.48
	3H	16.40	17.62	16.77	17.95	18.32	16.40	17.62	16.77	17.95	18.32
	4H	16.38	17.52	16.78	17.87	18.25	16.38	17.52	16.78	17.87	18.25
	6H	16.36	17.41	16.78	17.78	18.17	16.36	17.41	16.78	17.78	18.17
	8H	16.35	17.34	16.78	17.73	18.14	16.35	17.34	16.78	17.73	18.14
	12H	16.34	17.28	16.77	17.66	18.09	16.34	17.28	16.77	17.66	18.09
4H	2H	16.29	17.43	16.69	17.78	18.16	16.29	17.43	16.69	17.78	18.16
	3H	16.27	17.19	16.68	17.59	17.99	16.27	17.19	16.68	17.59	17.99
	4H	16.26	17.08	16.70	17.50	17.94	16.26	17.08	16.70	17.50	17.94
	6H	16.29	16.99	16.75	17.44	17.91	16.29	16.99	16.75	17.44	17.91
	8H	16.28	16.94	16.75	17.39	17.86	16.28	16.94	16.75	17.39	17.86
	12H	16.28	16.87	16.77	17.35	17.82	16.28	16.87	16.77	17.35	17.82
8H	4H	16.18	16.84	16.65	17.28	17.75	16.18	16.84	16.65	17.28	17.75
	6H	16.22	16.76	16.72	17.26	17.74	16.22	16.76	16.72	17.26	17.74
	8H	16.23	16.72	16.75	17.24	17.73	16.23	16.72	16.75	17.24	17.73
	12H	16.25	16.70	16.76	17.19	17.76	16.25	16.70	16.76	17.19	17.76
12H	4H	16.14	16.73	16.63	17.21	17.68	16.14	16.73	16.63	17.21	17.68
	6H	16.17	16.67	16.69	17.18	17.67	16.17	16.67	16.69	17.18	17.67
	8H	16.21	16.66	16.72	17.15	17.72	16.21	16.66	16.72	17.15	17.72