

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: P866033

Luminaire Tested: PRLX-2001-M-935-15L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866033  
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-935-15L-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 2  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

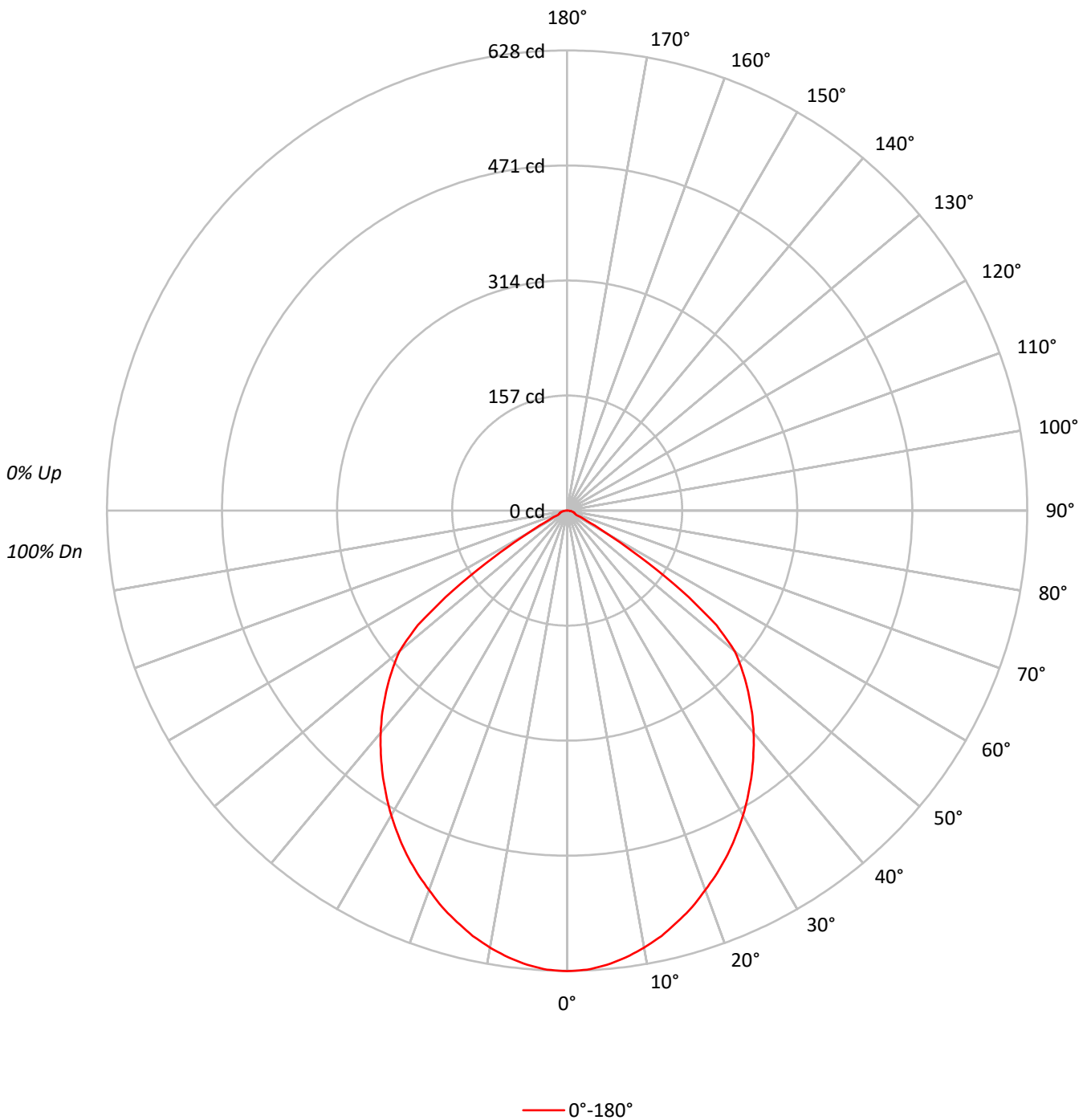
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1205.2 lumens  
Efficiency: N/A  
Efficacy: 86.1 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): 14  
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°	5333
5°	5302
10°	5219
15°	5106
20°	4977
25°	4852
30°	4706
35°	4550
40°	4387
45°	4191
50°	3945
55°	2818
60°	1051
65°	277
70°	273
75°	295
80°	318
85°	321

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4191 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	4.9
10°-20°	163.7	13.6
20°-30°	238.4	19.8
30°-40°	274.6	22.8
40°-50°	269.0	22.3
50°-60°	165.2	13.7
60°-70°	22.5	1.9
70°-80°	9.4	0.8
80°-90°	3.6	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°	461.0	38.3
0°-40°	735.6	61.0
0°-60°	1169.8	97.1
0°-90°	1205.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1205.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	628	
5°	622	59
15°	581	164
25°	518	238
35°	439	275
45°	349	269
55°	190	165
65°	14	22
75°	9	9
85°	3	4
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	628.5
2.5°	627.2
5°	622.4
7.5°	615.0
10°	605.7
12.5°	594.7
15°	581.2
17.5°	567.4
20°	551.1
22.5°	535.2
25°	518.2
27.5°	499.4
30°	480.3
32.5°	459.9
35°	439.2
37.5°	417.6
40°	396.0
42.5°	373.3
45°	349.2
47.5°	324.8
50°	298.8
52.5°	256.8
55°	190.5
57.5°	118.4
60°	61.9
62.5°	30.1
65°	13.8
67.5°	11.4
70°	11.0
72.5°	10.2
75°	9.0
77.5°	7.7
80°	6.5
82.5°	4.9
85°	3.3
87.5°	1.6
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	12.64	14.03	13.00	14.35	14.66	12.64	14.03	13.00	14.35	14.66
	3H	12.58	13.80	12.96	14.13	14.50	12.58	13.80	12.96	14.13	14.50
	4H	12.56	13.70	12.96	14.05	14.43	12.56	13.70	12.96	14.05	14.43
	6H	12.54	13.59	12.96	13.96	14.35	12.54	13.59	12.96	13.96	14.35
	8H	12.53	13.52	12.96	13.91	14.32	12.53	13.52	12.96	13.91	14.32
	12H	12.52	13.46	12.95	13.85	14.28	12.52	13.46	12.95	13.85	14.28
4H	2H	12.47	13.61	12.87	13.96	14.35	12.47	13.61	12.87	13.96	14.35
	3H	12.45	13.37	12.86	13.77	14.17	12.45	13.37	12.86	13.77	14.17
	4H	12.45	13.26	12.88	13.68	14.13	12.45	13.26	12.88	13.68	14.13
	6H	12.47	13.18	12.93	13.62	14.09	12.47	13.18	12.93	13.62	14.09
	8H	12.47	13.13	12.93	13.57	14.04	12.47	13.13	12.93	13.57	14.04
	12H	12.46	13.05	12.95	13.53	14.01	12.46	13.05	12.95	13.53	14.01
8H	4H	12.36	13.02	12.83	13.47	13.94	12.36	13.02	12.83	13.47	13.94
	6H	12.40	12.94	12.90	13.44	13.92	12.40	12.94	12.90	13.44	13.92
	8H	12.41	12.90	12.93	13.42	13.91	12.41	12.90	12.93	13.42	13.91
	12H	12.43	12.88	12.95	13.37	13.94	12.43	12.88	12.95	13.37	13.94
12H	4H	12.32	12.91	12.81	13.39	13.86	12.32	12.91	12.81	13.39	13.86
	6H	12.35	12.85	12.87	13.36	13.85	12.35	12.85	12.87	13.36	13.85
	8H	12.39	12.84	12.91	13.33	13.90	12.39	12.84	12.91	13.33	13.90