

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: P865525

Luminaire Tested: PRLX-2001-S-935-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-935-25L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

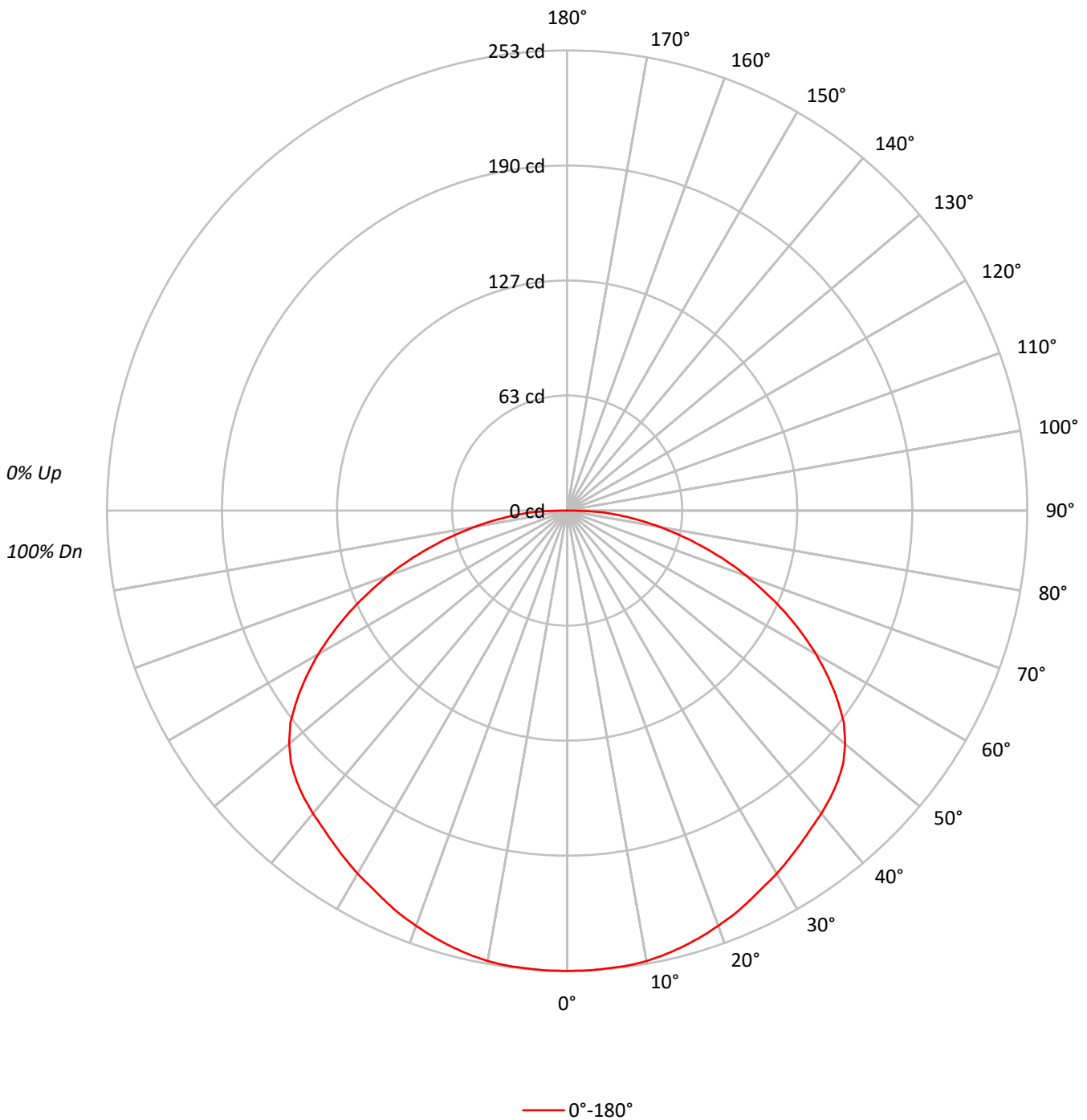
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 910.9 lumens  
Efficiency: N/A  
Efficacy: 31.3 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55  
Luminous Opening: Circular (Dia: 0.92' 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: 0.5 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	107	102	97	93	105	100	95	91	95	92	89		91	89	86		88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68	66
3	88	76	67	60	85	75	66	60	72	64	59		69	63	58		66	61	57	54
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58	53	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36		48	41	36		47	41	36	33
7	62	48	39	32	60	47	38	32	45	38	32		44	37	31		43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28		40	33	28		39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	22	21

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

	0°
0°	4128
5°	4137
10°	4165
15°	4186
20°	4216
25°	4262
30°	4341
35°	4454
40°	4629
45°	4853
50°	5062
55°	5158
60°	5157
65°	5098
70°	5007
75°	4890
80°	4847
85°	5296

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 6768 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.1	2.6
10°-20°	70.1	7.7
20°-30°	109.4	12.0
30°-40°	140.4	15.4
40°-50°	162.2	17.8
50°-60°	161.6	17.7
60°-70°	130.4	14.3
70°-80°	82.3	9.0
80°-90°	30.4	3.3
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°	203.6	22.4
0°-40°	344.0	37.8
0°-60°	667.8	73.3
0°-90°	910.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	910.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	253	
5°	253	24
15°	248	70
25°	237	109
35°	224	140
45°	210	162
55°	181	162
65°	132	130
75°	78	82
85°	28	30
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	253.1
2.5°	253.1
5°	252.7
7.5°	252.4
10°	251.5
12.5°	249.9
15°	247.9
17.5°	245.6
20°	242.9
22.5°	240.2
25°	236.8
27.5°	233.4
30°	230.5
32.5°	227.1
35°	223.7
37.5°	220.3
40°	217.4
42.5°	214.2
45°	210.4
47.5°	205.8
50°	199.5
52.5°	191.8
55°	181.4
57.5°	170.1
60°	158.1
62.5°	145.2
65°	132.1
67.5°	118.1
70°	105.0
72.5°	91.4
75°	77.6
77.5°	64.5
80°	51.6
82.5°	39.4
85°	28.3
87.5°	18.1
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	18.18	19.92	18.55	20.23	20.54	18.18	19.92	18.55	20.23	20.54
	3H	20.19	21.77	20.57	22.10	22.45	20.19	21.77	20.57	22.10	22.45
	4H	21.00	22.50	21.40	22.84	23.22	21.00	22.50	21.40	22.84	23.22
	6H	21.68	23.07	22.08	23.43	23.82	21.68	23.07	22.08	23.43	23.82
	8H	21.94	23.27	22.36	23.66	24.05	21.94	23.27	22.36	23.66	24.05
	12H	22.16	23.44	22.59	23.82	24.25	22.16	23.44	22.59	23.82	24.25
4H	2H	18.89	20.38	19.28	20.73	21.10	18.89	20.38	19.28	20.73	21.10
	3H	21.13	22.39	21.54	22.79	23.19	21.13	22.39	21.54	22.79	23.19
	4H	22.08	23.23	22.51	23.65	24.08	22.08	23.23	22.51	23.65	24.08
	6H	22.90	23.92	23.36	24.36	24.81	22.90	23.92	23.36	24.36	24.81
	8H	23.23	24.18	23.69	24.62	25.09	23.23	24.18	23.69	24.62	25.09
	12H	23.53	24.39	24.01	24.86	25.33	23.53	24.39	24.01	24.86	25.33
8H	4H	22.48	23.43	22.93	23.87	24.33	22.48	23.43	22.93	23.87	24.33
	6H	23.46	24.25	23.95	24.74	25.21	23.46	24.25	23.95	24.74	25.21
	8H	23.89	24.61	24.39	25.11	25.59	23.89	24.61	24.39	25.11	25.59
	12H	24.30	24.94	24.81	25.43	25.98	24.30	24.94	24.81	25.43	25.98
12H	4H	22.54	23.40	23.02	23.87	24.34	22.54	23.40	23.02	23.87	24.34
	6H	23.56	24.28	24.06	24.78	25.26	23.56	24.28	24.06	24.78	25.26
	8H	24.07	24.70	24.57	25.19	25.75	24.07	24.70	24.57	25.19	25.75