

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: P866789

Luminaire Tested: PRLX-2001-L-935-100L-L-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-L-935-100L-L-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

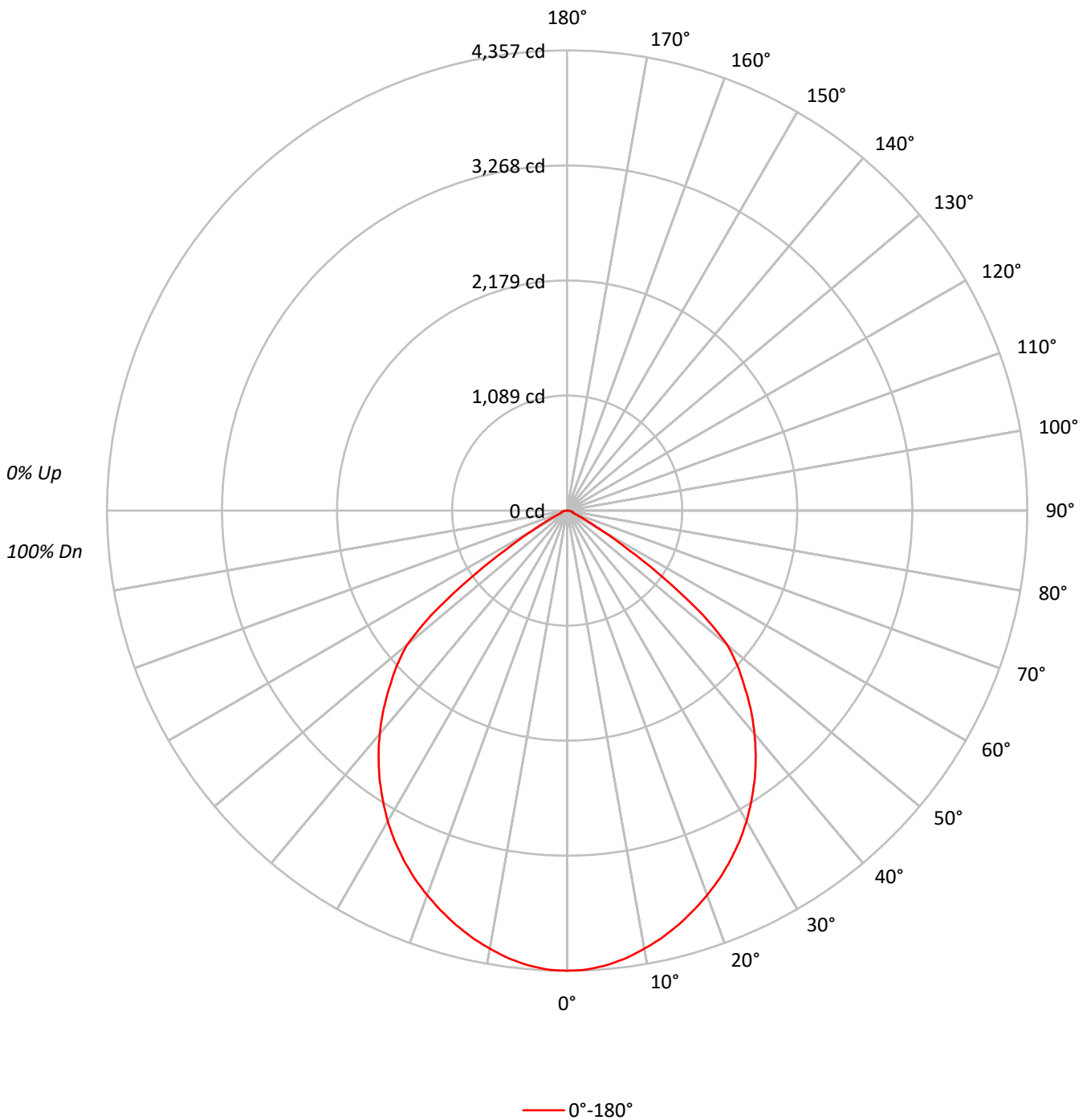
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8259.0 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 79.4  
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	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

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

	0°
0°	23820
5°	23706
10°	23383
15°	22989
20°	22549
25°	22049
30°	21440
35°	20666
40°	19700
45°	18432
50°	16849
55°	10692
60°	4241
65°	1622
70°	981
75°	1071
80°	1206
85°	1336

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18432 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.0	5.0
10°-20°	1144.7	13.9
20°-30°	1682.5	20.4
30°-40°	1933.3	23.4
40°-50°	1836.8	22.2
50°-60°	1018.4	12.3
60°-70°	159.0	1.9
70°-80°	53.3	0.6
80°-90°	22.1	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°	3236.1	39.2
0°-40°	5169.4	62.6
0°-60°	8024.6	97.2
0°-90°	8259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8259.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4357	
5°	4320	409
15°	4062	1145
25°	3655	1682
35°	3097	1933
45°	2384	1837
55°	1122	1018
65°	125	159
75°	51	53
85°	21	22
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4357.2
2.5°	4350.0
5°	4319.8
7.5°	4274.4
10°	4212.2
12.5°	4143.7
15°	4061.8
17.5°	3972.0
20°	3875.9
22.5°	3771.8
25°	3655.3
27.5°	3532.5
30°	3396.4
32.5°	3250.5
35°	3096.6
37.5°	2933.8
40°	2760.4
42.5°	2579.8
45°	2384.1
47.5°	2194.6
50°	1981.1
52.5°	1617.3
55°	1121.8
57.5°	682.3
60°	387.9
62.5°	230.4
65°	125.4
67.5°	68.5
70°	61.4
72.5°	56.0
75°	50.7
77.5°	45.4
80°	38.3
82.5°	30.2
85°	21.3
87.5°	10.7
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	16.64	18.02	17.01	18.33	18.65	16.64	18.02	17.01	18.33	18.65
	3H	16.58	17.79	16.96	18.12	18.48	16.58	17.79	16.96	18.12	18.48
	4H	16.56	17.68	16.96	18.03	18.41	16.56	17.68	16.96	18.03	18.41
	6H	16.54	17.57	16.96	17.94	18.34	16.54	17.57	16.96	17.94	18.34
	8H	16.53	17.51	16.96	17.90	18.30	16.53	17.51	16.96	17.90	18.30
	12H	16.52	17.45	16.95	17.84	18.27	16.52	17.45	16.95	17.84	18.27
4H	2H	16.51	17.64	16.91	17.99	18.37	16.51	17.64	16.91	17.99	18.37
	3H	16.48	17.39	16.89	17.79	18.19	16.48	17.39	16.89	17.79	18.19
	4H	16.47	17.28	16.91	17.70	18.14	16.47	17.28	16.91	17.70	18.14
	6H	16.50	17.19	16.96	17.64	18.10	16.50	17.19	16.96	17.64	18.10
	8H	16.50	17.15	16.97	17.59	18.06	16.50	17.15	16.97	17.59	18.06
	12H	16.50	17.08	16.99	17.56	18.03	16.50	17.08	16.99	17.56	18.03
8H	4H	16.38	17.03	16.85	17.48	17.95	16.38	17.03	16.85	17.48	17.95
	6H	16.42	16.96	16.92	17.45	17.93	16.42	16.96	16.92	17.45	17.93
	8H	16.44	16.93	16.96	17.44	17.93	16.44	16.93	16.96	17.44	17.93
	12H	16.48	16.92	16.99	17.41	17.98	16.48	16.92	16.99	17.41	17.98
12H	4H	16.34	16.92	16.83	17.40	17.88	16.34	16.92	16.83	17.40	17.88
	6H	16.38	16.87	16.90	17.38	17.87	16.38	16.87	16.90	17.38	17.87
	8H	16.43	16.87	16.94	17.36	17.93	16.43	16.87	16.94	17.36	17.93