

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: P866823

Luminaire Tested: PRLX-2001-L-935-32L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-76)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-935-32L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

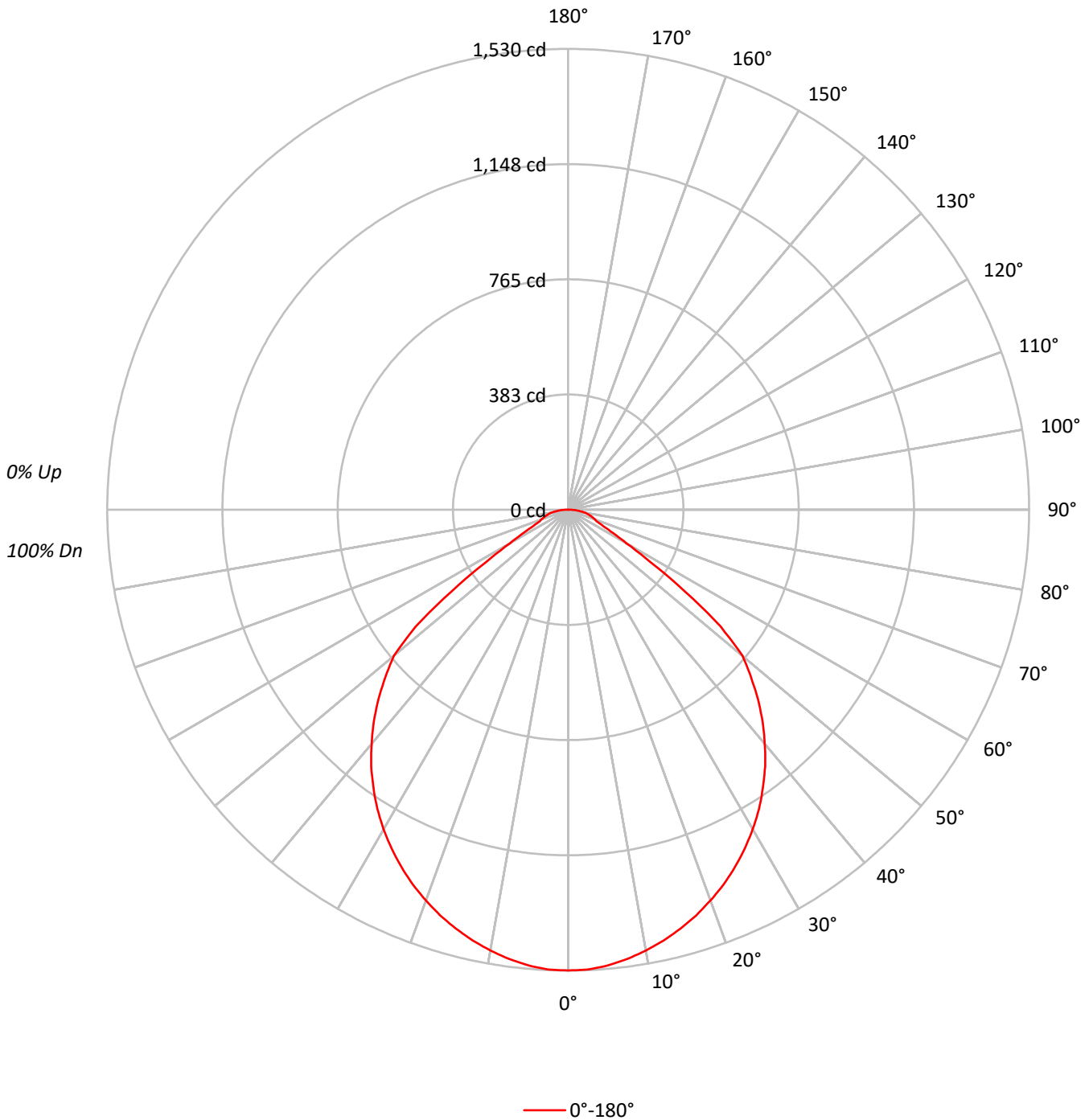
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3217.0 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.1  
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	107	103	100	108	105	101	99	101	98	96		97	95	93		93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62		71	66	62		69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49		59	53	49		58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	37	32	31

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

	0°
0°	8364
5°	8334
10°	8249
15°	8148
20°	8033
25°	7900
30°	7733
35°	7520
40°	7244
45°	6885
50°	6425
55°	4512
60°	2443
65°	1664
70°	1512
75°	1605
80°	1728
85°	1844

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6885 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.9	4.5
10°-20°	406.0	12.6
20°-30°	603.0	18.7
30°-40°	704.0	21.9
40°-50°	685.3	21.3
50°-60°	426.4	13.3
60°-70°	137.5	4.3
70°-80°	79.8	2.5
80°-90°	31.2	1.0
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°	1152.8	35.8
0°-40°	1856.9	57.7
0°-60°	2968.6	92.3
0°-90°	3217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3217.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1530	
5°	1519	144
15°	1440	406
25°	1310	603
35°	1127	704
45°	890	685
55°	473	426
65°	129	137
75°	76	80
85°	29	31
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1529.9
2.5°	1528.2
5°	1518.7
7.5°	1504.5
10°	1485.9
12.5°	1464.7
15°	1439.6
17.5°	1412.2
20°	1380.7
22.5°	1347.6
25°	1309.6
27.5°	1269.0
30°	1225.0
32.5°	1178.5
35°	1126.8
37.5°	1073.9
40°	1015.1
42.5°	955.4
45°	890.5
47.5°	822.8
50°	755.4
52.5°	637.7
55°	473.4
57.5°	322.5
60°	223.4
62.5°	166.8
65°	128.6
67.5°	102.8
70°	94.6
72.5°	85.4
75°	76.0
77.5°	66.0
80°	54.9
82.5°	42.9
85°	29.4
87.5°	14.9
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	14.68	16.13	15.05	16.45	16.76	14.68	16.13	15.05	16.45	16.76
	3H	15.16	16.45	15.54	16.78	17.14	15.16	16.45	15.54	16.78	17.14
	4H	15.48	16.69	15.88	17.03	17.42	15.48	16.69	15.88	17.03	17.42
	6H	15.83	16.94	16.25	17.31	17.70	15.83	16.94	16.25	17.31	17.70
	8H	15.99	17.04	16.42	17.43	17.83	15.99	17.04	16.42	17.43	17.83
	12H	16.12	17.12	16.55	17.50	17.93	16.12	17.12	16.55	17.50	17.93
4H	2H	14.76	15.97	15.16	16.31	16.70	14.76	15.97	15.16	16.31	16.70
	3H	15.46	16.44	15.87	16.84	17.24	15.46	16.44	15.87	16.84	17.24
	4H	15.93	16.81	16.36	17.23	17.67	15.93	16.81	16.36	17.23	17.67
	6H	16.46	17.22	16.92	17.66	18.13	16.46	17.22	16.92	17.66	18.13
	8H	16.68	17.40	17.15	17.84	18.31	16.68	17.40	17.15	17.84	18.31
	12H	16.89	17.52	17.37	18.00	18.47	16.89	17.52	17.37	18.00	18.47
8H	4H	16.09	16.81	16.56	17.25	17.72	16.09	16.81	16.56	17.25	17.72
	6H	16.76	17.36	17.26	17.85	18.33	16.76	17.36	17.26	17.85	18.33
	8H	17.09	17.63	17.61	18.14	18.63	17.09	17.63	17.61	18.14	18.63
	12H	17.39	17.87	17.91	18.37	18.93	17.39	17.87	17.91	18.37	18.93
12H	4H	16.11	16.75	16.60	17.23	17.70	16.11	16.75	16.60	17.23	17.70
	6H	16.81	17.35	17.33	17.86	18.35	16.81	17.35	17.33	17.86	18.35
	8H	17.21	17.69	17.72	18.18	18.75	17.21	17.69	17.72	18.18	18.75