

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: P866758

Luminaire Tested: PRLX-2001-L-930-32L-L-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866758  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-930-32L-L-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

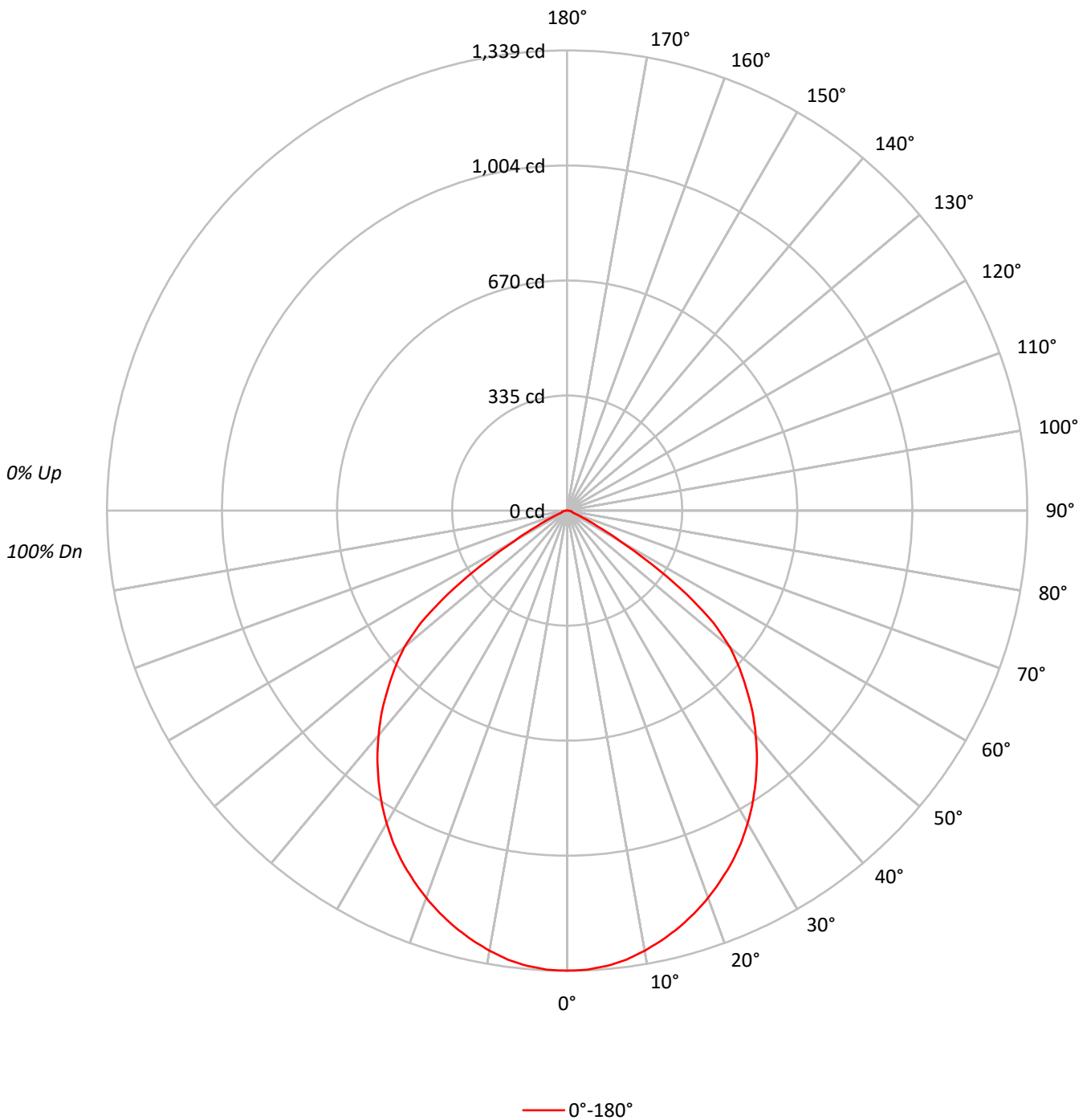
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2629.5 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.1  
Input Voltage (V): 120  
Input Current (Ain): 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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65		73	68	64		71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44	38	34	33

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

	0°
0°	7319
5°	7299
10°	7219
15°	7109
20°	6977
25°	6825
30°	6633
35°	6388
40°	6092
45°	5720
50°	5256
55°	4058
60°	1962
65°	740
70°	291
75°	321
80°	365
85°	414

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5720 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.0	4.8
10°-20°	353.9	13.5
20°-30°	520.5	19.8
30°-40°	597.8	22.7
40°-50°	569.9	21.7
50°-60°	367.9	14.0
60°-70°	70.7	2.7
70°-80°	15.9	0.6
80°-90°	6.8	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°	1000.4	38.0
0°-40°	1598.3	60.8
0°-60°	2536.0	96.4
0°-90°	2629.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2629.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1339	
5°	1330	126
15°	1256	354
25°	1131	521
35°	957	598
45°	740	570
55°	426	368
65°	57	71
75°	15	16
85°	7	7
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1338.8
2.5°	1337.2
5°	1330.0
7.5°	1317.8
10°	1300.4
12.5°	1279.6
15°	1256.1
17.5°	1229.0
20°	1199.2
22.5°	1166.3
25°	1131.4
27.5°	1093.0
30°	1050.7
32.5°	1005.4
35°	957.2
37.5°	907.2
40°	853.6
42.5°	799.6
45°	739.9
47.5°	681.0
50°	618.0
52.5°	536.4
55°	425.8
57.5°	296.7
60°	179.4
62.5°	102.9
65°	57.2
67.5°	29.9
70°	18.2
72.5°	16.6
75°	15.2
77.5°	13.5
80°	11.6
82.5°	9.4
85°	6.6
87.5°	3.3
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	14.82	16.22	15.18	16.53	16.85	14.82	16.22	15.18	16.53	16.85
	3H	14.74	15.98	15.12	16.31	16.67	14.74	15.98	15.12	16.31	16.67
	4H	14.70	15.84	15.10	16.20	16.58	14.70	15.84	15.10	16.20	16.58
	6H	14.65	15.71	15.07	16.08	16.47	14.65	15.71	15.07	16.08	16.47
	8H	14.63	15.63	15.06	16.02	16.42	14.63	15.63	15.06	16.02	16.42
	12H	14.61	15.56	15.04	15.94	16.37	14.61	15.56	15.04	15.94	16.37
4H	2H	14.70	15.85	15.10	16.20	16.58	14.70	15.85	15.10	16.20	16.58
	3H	14.64	15.57	15.05	15.97	16.37	14.64	15.57	15.05	15.97	16.37
	4H	14.59	15.42	15.03	15.83	16.28	14.59	15.42	15.03	15.83	16.28
	6H	14.57	15.28	15.03	15.72	16.19	14.57	15.28	15.03	15.72	16.19
	8H	14.54	15.20	15.01	15.65	16.12	14.54	15.20	15.01	15.65	16.12
	12H	14.52	15.11	15.01	15.59	16.07	14.52	15.11	15.01	15.59	16.07
8H	4H	14.48	15.15	14.95	15.59	16.06	14.48	15.15	14.95	15.59	16.06
	6H	14.45	15.00	14.95	15.49	15.98	14.45	15.00	14.95	15.49	15.98
	8H	14.43	14.93	14.95	15.44	15.93	14.43	14.93	14.95	15.44	15.93
	12H	14.43	14.88	14.95	15.37	15.94	14.43	14.88	14.95	15.37	15.94
12H	4H	14.44	15.03	14.93	15.51	15.99	14.44	15.03	14.93	15.51	15.99
	6H	14.40	14.90	14.92	15.41	15.90	14.40	14.90	14.92	15.41	15.90
	8H	14.40	14.85	14.92	15.34	15.91	14.40	14.85	14.92	15.34	15.91