

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: P866774

Luminaire Tested: PRLX-2001-L-930-67L-L-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866774  
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-930-67L-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 4  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

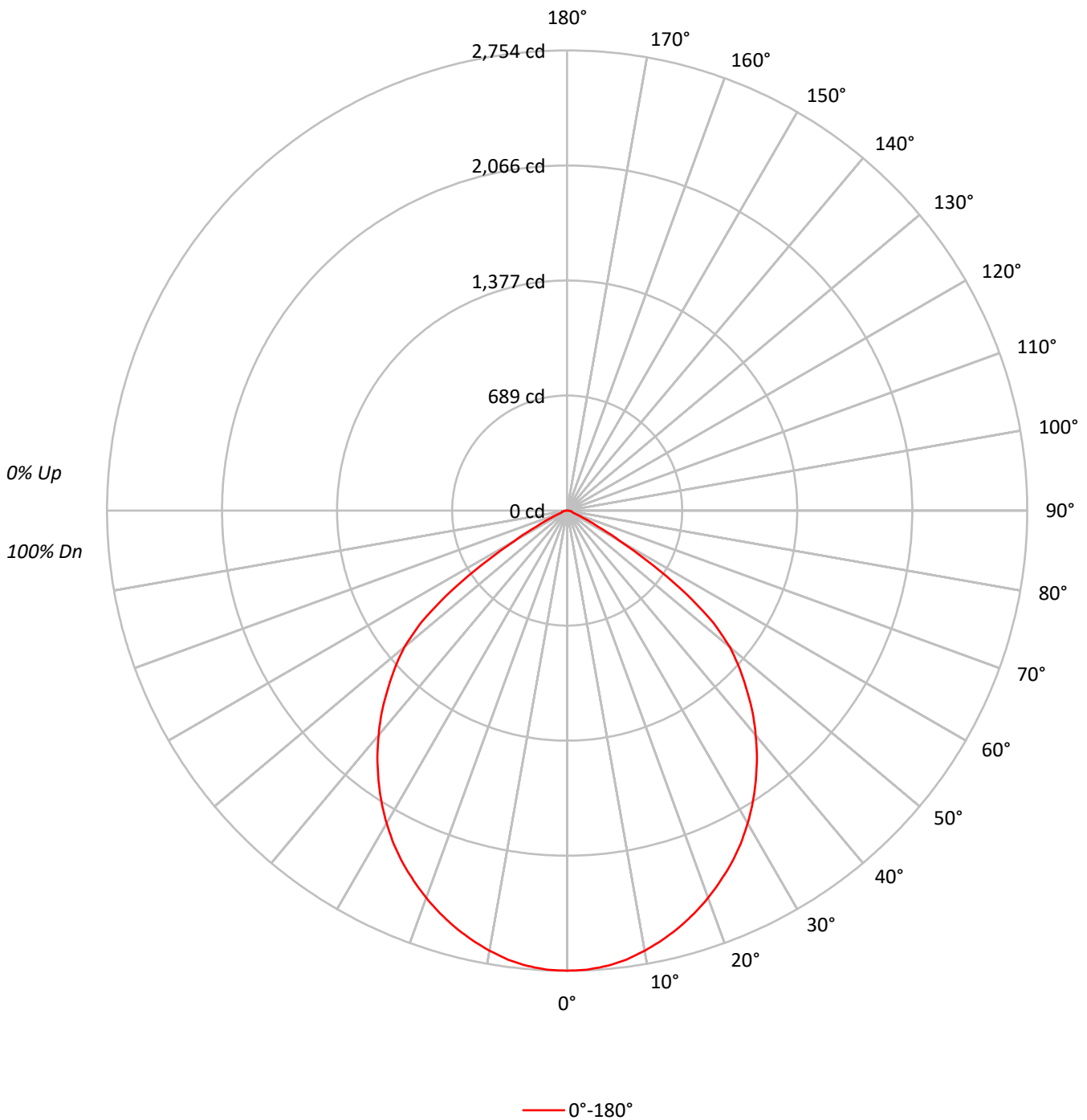
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5408.5 lumens  
Efficiency: N/A  
Efficacy: 107.3 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): 50.4  
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: 0.5 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°	15055
5°	15012
10°	14848
15°	14623
20°	14350
25°	14038
30°	13643
35°	13140
40°	12530
45°	11766
50°	10811
55°	8347
60°	4036
65°	1523
70°	599
75°	661
80°	752
85°	853

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11766 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.2	4.8
10°-20°	727.9	13.5
20°-30°	1070.7	19.8
30°-40°	1229.7	22.7
40°-50°	1172.2	21.7
50°-60°	756.7	14.0
60°-70°	145.4	2.7
70°-80°	32.7	0.6
80°-90°	14.1	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°	2057.8	38.0
0°-40°	3287.5	60.8
0°-60°	5216.4	96.4
0°-90°	5408.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5408.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2754	
5°	2736	259
15°	2584	728
25°	2327	1071
35°	1969	1230
45°	1522	1172
55°	876	757
65°	118	145
75°	31	33
85°	14	14
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2753.8
2.5°	2750.4
5°	2735.6
7.5°	2710.6
10°	2674.7
12.5°	2632.1
15°	2583.7
17.5°	2528.0
20°	2466.6
22.5°	2398.9
25°	2327.2
27.5°	2248.2
30°	2161.2
32.5°	2067.9
35°	1968.9
37.5°	1866.0
40°	1755.7
42.5°	1644.8
45°	1521.9
47.5°	1400.8
50°	1271.1
52.5°	1103.3
55°	875.8
57.5°	610.2
60°	369.1
62.5°	211.6
65°	117.7
67.5°	61.4
70°	37.5
72.5°	34.1
75°	31.3
77.5°	27.9
80°	23.9
82.5°	19.3
85°	13.6
87.5°	6.8
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	17.32	18.73	17.69	19.04	19.35	17.32	18.73	17.69	19.04	19.35
	3H	17.25	18.48	17.63	18.81	19.18	17.25	18.48	17.63	18.81	19.18
	4H	17.20	18.35	17.61	18.70	19.08	17.20	18.35	17.61	18.70	19.08
	6H	17.16	18.21	17.57	18.58	18.97	17.16	18.21	17.57	18.58	18.97
	8H	17.13	18.13	17.56	18.52	18.93	17.13	18.13	17.56	18.52	18.93
	12H	17.11	18.06	17.54	18.44	18.87	17.11	18.06	17.54	18.44	18.87
4H	2H	17.21	18.35	17.61	18.70	19.08	17.21	18.35	17.61	18.70	19.08
	3H	17.15	18.07	17.56	18.47	18.88	17.15	18.07	17.56	18.47	18.88
	4H	17.10	17.92	17.53	18.34	18.78	17.10	17.92	17.53	18.34	18.78
	6H	17.07	17.78	17.54	18.23	18.69	17.07	17.78	17.54	18.23	18.69
	8H	17.05	17.71	17.52	18.16	18.63	17.05	17.71	17.52	18.16	18.63
	12H	17.03	17.62	17.52	18.10	18.57	17.03	17.62	17.52	18.10	18.57
8H	4H	16.99	17.65	17.46	18.10	18.57	16.99	17.65	17.46	18.10	18.57
	6H	16.96	17.50	17.46	18.00	18.48	16.96	17.50	17.46	18.00	18.48
	8H	16.94	17.43	17.46	17.95	18.44	16.94	17.43	17.46	17.95	18.44
	12H	16.94	17.38	17.45	17.88	18.45	16.94	17.38	17.45	17.88	18.45
12H	4H	16.95	17.54	17.43	18.02	18.49	16.95	17.54	17.43	18.02	18.49
	6H	16.90	17.40	17.42	17.91	18.41	16.90	17.40	17.42	17.91	18.41
	8H	16.91	17.35	17.42	17.85	18.42	16.91	17.35	17.42	17.85	18.42