

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: P865964

Luminaire Tested: PRLX-2001-M-930-15L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865964  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-930-15L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

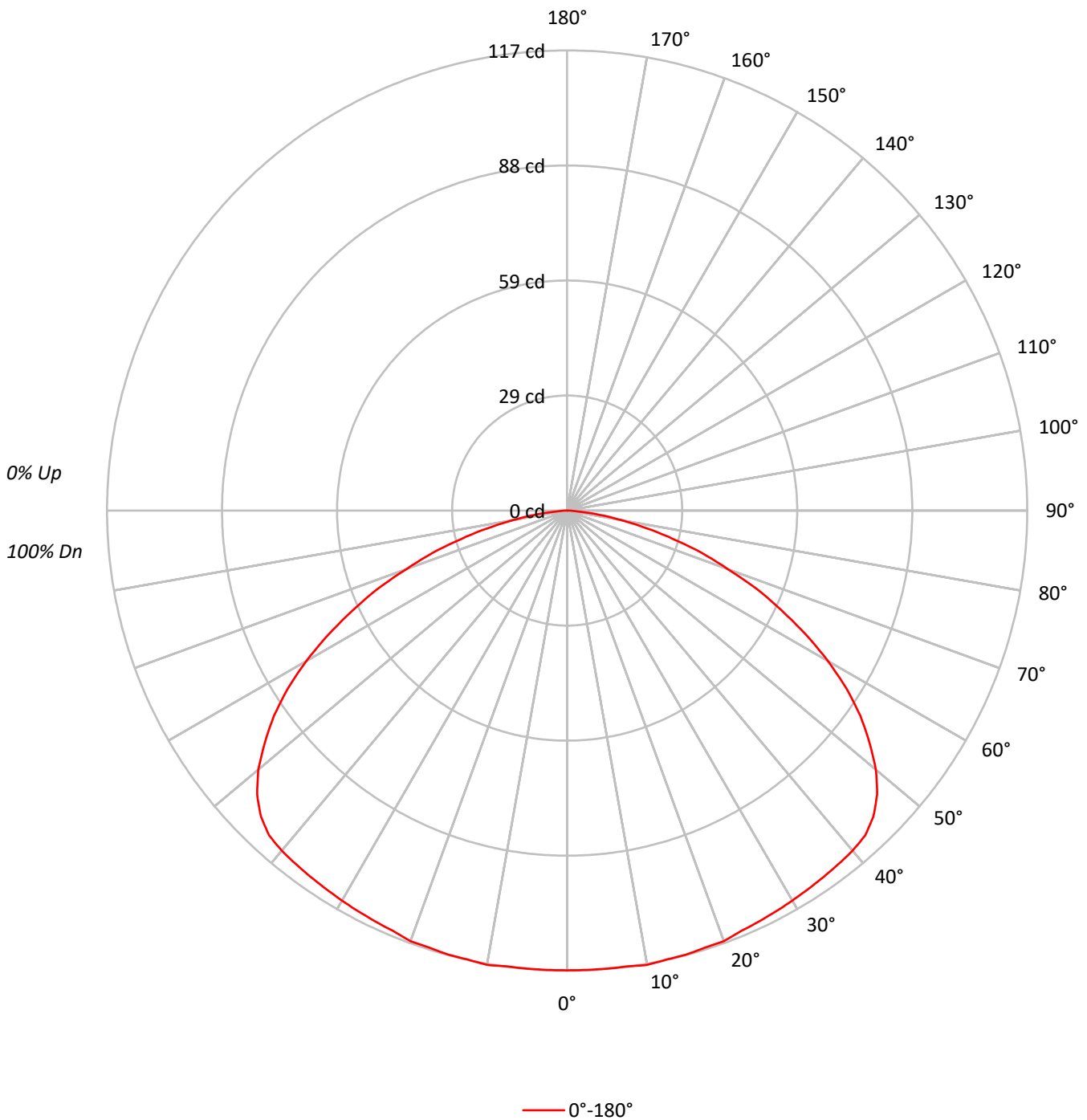
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 429.2 lumens  
Efficiency: N/A  
Efficacy: 30.7 lumens/watt  
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14  
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	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	76	69	62	73	67	61		71	65	60		68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44		55	49	43		54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29		41	34	29		40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

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

	0°
0°	992
5°	996
10°	1011
15°	1027
20°	1052
25°	1080
30°	1122
35°	1178
40°	1251
45°	1321
50°	1353
55°	1346
60°	1300
65°	1209
70°	1079
75°	915
80°	684
85°	351

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 1353 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.2	2.6
10°-20°	33.1	7.7
20°-30°	53.4	12.4
30°-40°	71.4	16.6
40°-50°	84.5	19.7
50°-60°	80.9	18.8
60°-70°	59.6	13.9
70°-80°	29.8	7.0
80°-90°	5.4	1.3
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°	97.6	22.7
0°-40°	169.0	39.4
0°-60°	334.4	77.9
0°-90°	429.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	429.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	117	
5°	117	11
15°	117	33
25°	115	53
35°	114	71
45°	110	84
55°	91	81
65°	60	60
75°	28	30
85°	4	5
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	116.9
2.5°	116.9
5°	116.9
7.5°	116.9
10°	117.3
12.5°	116.9
15°	116.9
17.5°	116.5
20°	116.5
22.5°	115.7
25°	115.3
27.5°	114.9
30°	114.5
32.5°	114.1
35°	113.7
37.5°	113.3
40°	112.9
42.5°	112.1
45°	110.1
47.5°	106.9
50°	102.5
52.5°	96.9
55°	91.0
57.5°	84.2
60°	76.6
62.5°	68.6
65°	60.2
67.5°	52.3
70°	43.5
72.5°	35.9
75°	27.9
77.5°	20.7
80°	14.0
82.5°	8.4
85°	3.6
87.5°	0.8
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	13.67	15.37	14.04	15.69	16.00	13.67	15.37	14.04	15.69	16.00
	3H	15.29	16.83	15.66	17.15	17.51	15.29	16.83	15.66	17.15	17.51
	4H	15.81	17.26	16.20	17.60	17.98	15.81	17.26	16.20	17.60	17.98
	6H	16.11	17.45	16.52	17.81	18.20	16.11	17.45	16.52	17.81	18.20
	8H	16.17	17.45	16.59	17.84	18.24	16.17	17.45	16.59	17.84	18.24
	12H	16.19	17.42	16.61	17.80	18.23	16.19	17.42	16.61	17.80	18.23
4H	2H	14.27	15.72	14.67	16.07	16.44	14.27	15.72	14.67	16.07	16.44
	3H	16.08	17.30	16.49	17.69	18.09	16.08	17.30	16.49	17.69	18.09
	4H	16.71	17.80	17.14	18.22	18.65	16.71	17.80	17.14	18.22	18.65
	6H	17.10	18.06	17.56	18.50	18.95	17.10	18.06	17.56	18.50	18.95
	8H	17.19	18.08	17.65	18.53	18.99	17.19	18.08	17.65	18.53	18.99
	12H	17.23	18.03	17.71	18.51	18.97	17.23	18.03	17.71	18.51	18.97
8H	4H	16.95	17.84	17.41	18.28	18.75	16.95	17.84	17.41	18.28	18.75
	6H	17.41	18.16	17.91	18.64	19.12	17.41	18.16	17.91	18.64	19.12
	8H	17.54	18.20	18.04	18.71	19.19	17.54	18.20	18.04	18.71	19.19
	12H	17.60	18.19	18.10	18.68	19.24	17.60	18.19	18.10	18.68	19.24
12H	4H	16.96	17.77	17.44	18.24	18.71	16.96	17.77	17.44	18.24	18.71
	6H	17.43	18.10	17.94	18.60	19.09	17.43	18.10	17.94	18.60	19.09
	8H	17.59	18.18	18.09	18.67	19.23	17.59	18.18	18.09	18.67	19.23