

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: P865900

Luminaire Tested: PRLX-2001-M-927-15L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865900  
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-927-15L-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

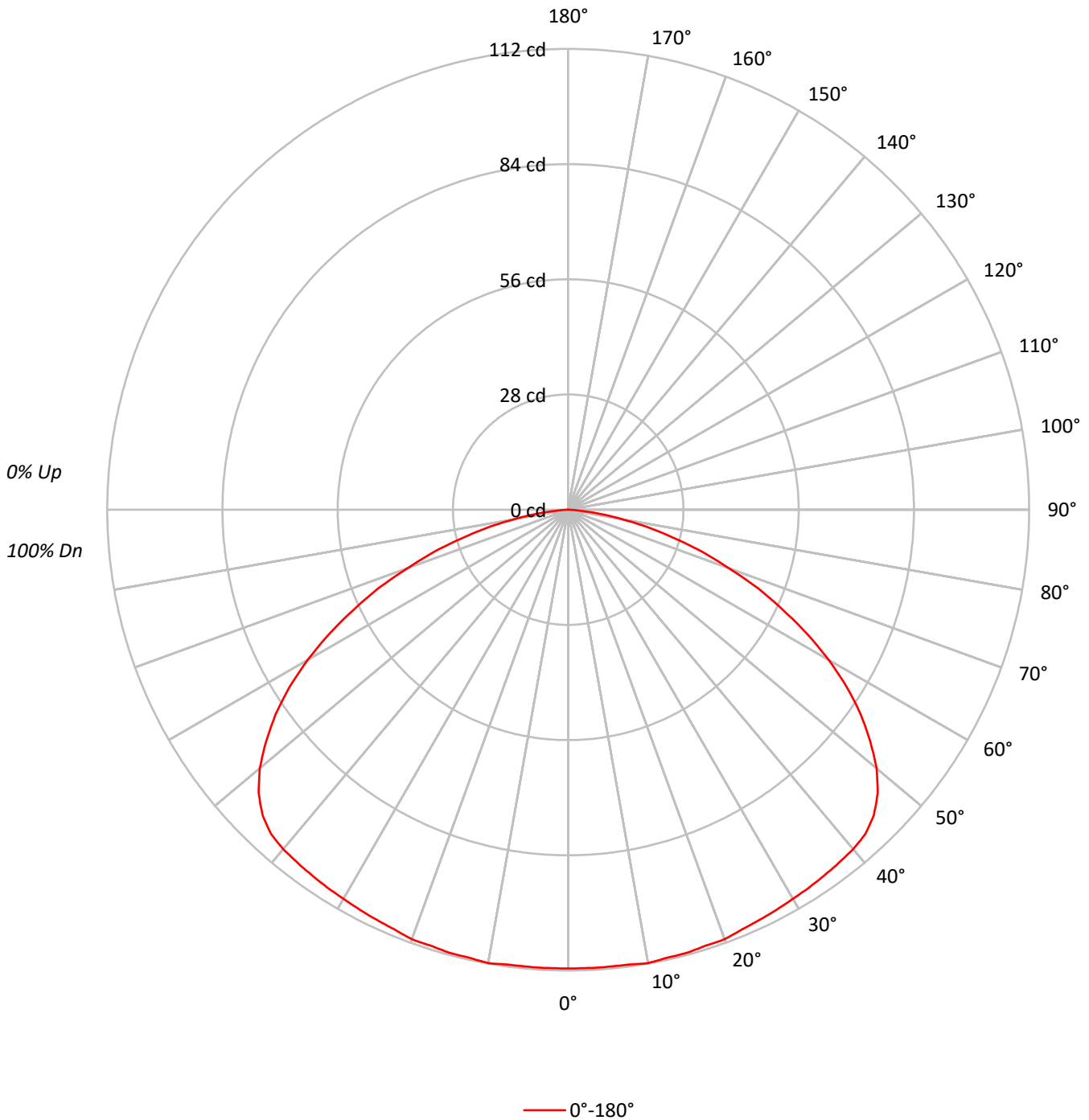
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 409.5 lumens  
Efficiency: N/A  
Efficacy: 29.3 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°	946
5°	950
10°	964
15°	980
20°	1003
25°	1030
30°	1070
35°	1124
40°	1193
45°	1260
50°	1291
55°	1284
60°	1241
65°	1155
70°	1030
75°	872
80°	650
85°	331

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 1291 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.7	2.6
10°-20°	31.6	7.7
20°-30°	50.9	12.4
30°-40°	68.1	16.6
40°-50°	80.6	19.7
50°-60°	77.2	18.8
60°-70°	56.9	13.9
70°-80°	28.5	7.0
80°-90°	5.1	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°	93.1	22.7
0°-40°	161.3	39.4
0°-60°	319.0	77.9
0°-90°	409.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	409.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	112	
5°	112	11
15°	112	32
25°	110	51
35°	108	68
45°	105	81
55°	87	77
65°	58	57
75°	27	28
85°	3	5
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	111.5
2.5°	111.5
5°	111.5
7.5°	111.5
10°	111.9
12.5°	111.5
15°	111.5
17.5°	111.1
20°	111.1
22.5°	110.4
25°	110.0
27.5°	109.6
30°	109.2
32.5°	108.9
35°	108.5
37.5°	108.1
40°	107.7
42.5°	106.9
45°	105.0
47.5°	102.0
50°	97.8
52.5°	92.5
55°	86.8
57.5°	80.3
60°	73.1
62.5°	65.5
65°	57.5
67.5°	49.9
70°	41.5
72.5°	34.3
75°	26.6
77.5°	19.8
80°	13.3
82.5°	8.0
85°	3.4
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	13.51	15.21	13.87	15.52	15.83	13.51	15.21	13.87	15.52	15.83
	3H	15.12	16.66	15.50	16.99	17.35	15.12	16.66	15.50	16.99	17.35
	4H	15.64	17.09	16.04	17.44	17.81	15.64	17.09	16.04	17.44	17.81
	6H	15.94	17.29	16.35	17.65	18.04	15.94	17.29	16.35	17.65	18.04
	8H	16.00	17.29	16.43	17.68	18.07	16.00	17.29	16.43	17.68	18.07
	12H	16.02	17.25	16.45	17.63	18.06	16.02	17.25	16.45	17.63	18.06
4H	2H	14.11	15.56	14.51	15.91	16.28	14.11	15.56	14.51	15.91	16.28
	3H	15.92	17.13	16.33	17.53	17.93	15.92	17.13	16.33	17.53	17.93
	4H	16.54	17.64	16.97	18.05	18.49	16.54	17.64	16.97	18.05	18.49
	6H	16.94	17.90	17.39	18.34	18.79	16.94	17.90	17.39	18.34	18.79
	8H	17.03	17.92	17.48	18.36	18.83	17.03	17.92	17.48	18.36	18.83
	12H	17.06	17.87	17.54	18.34	18.81	17.06	17.87	17.54	18.34	18.81
8H	4H	16.78	17.68	17.24	18.12	18.58	16.78	17.68	17.24	18.12	18.58
	6H	17.25	17.99	17.74	18.48	18.95	17.25	17.99	17.74	18.48	18.95
	8H	17.37	18.04	17.88	18.54	19.03	17.37	18.04	17.88	18.54	19.03
	12H	17.43	18.02	17.94	18.51	19.07	17.43	18.02	17.94	18.51	19.07
12H	4H	16.80	17.60	17.28	18.08	18.55	16.80	17.60	17.28	18.08	18.55
	6H	17.27	17.93	17.77	18.44	18.92	17.27	17.93	17.77	18.44	18.92
	8H	17.42	18.01	17.93	18.50	19.06	17.42	18.01	17.93	18.50	19.06