

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: P865903

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)  
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-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

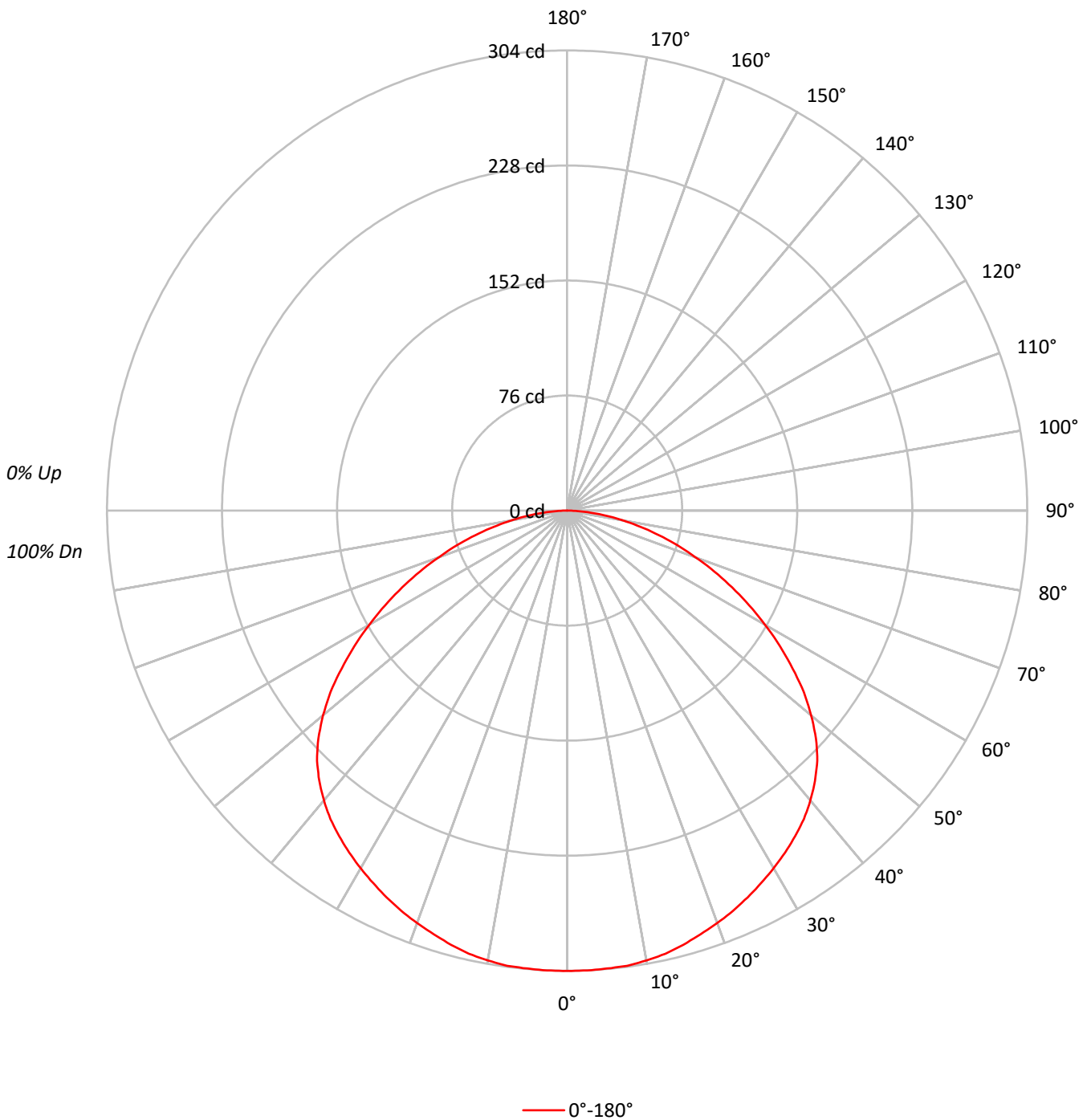
Lumens per Lamp: N/A  
Luminaire Lumens: 953.3 lumens  
Efficiency: N/A  
Efficacy: 68.1 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct

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: 0.333 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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

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

	0°
0°	2581
5°	2587
10°	2601
15°	2608
20°	2619
25°	2640
30°	2674
35°	2720
40°	2769
45°	2805
50°	2779
55°	2691
60°	2564
65°	2416
70°	2238
75°	2059
80°	1823
85°	1480

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2805 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.9	3.0
10°-20°	83.9	8.8
20°-30°	130.2	13.7
30°-40°	164.4	17.2
40°-50°	179.5	18.8
50°-60°	162.4	17.0
60°-70°	119.2	12.5
70°-80°	66.6	7.0
80°-90°	18.1	1.9
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°	243.0	25.5
0°-40°	407.5	42.7
0°-60°	749.4	78.6
0°-90°	953.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	953.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	304	
5°	304	29
15°	297	84
25°	282	130
35°	263	164
45°	234	180
55°	182	162
65°	120	119
75°	63	67
85°	15	18
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	304.1
2.5°	304.1
5°	303.7
7.5°	303.3
10°	301.8
12.5°	299.9
15°	296.9
17.5°	293.4
20°	290.0
22.5°	286.2
25°	282.0
27.5°	277.5
30°	272.9
32.5°	267.9
35°	262.6
37.5°	256.9
40°	250.0
42.5°	242.4
45°	233.7
47.5°	223.0
50°	210.5
52.5°	197.1
55°	181.9
57.5°	166.7
60°	151.1
62.5°	135.5
65°	120.3
67.5°	105.4
70°	90.2
72.5°	76.5
75°	62.8
77.5°	49.5
80°	37.3
82.5°	25.9
85°	15.2
87.5°	6.9
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	15.69	17.36	16.06	17.67	17.98	15.69	17.36	16.06	17.67	17.98
	3H	17.38	18.89	17.76	19.21	19.57	17.38	18.89	17.76	19.21	19.57
	4H	18.01	19.43	18.41	19.78	20.15	18.01	19.43	18.41	19.78	20.15
	6H	18.46	19.78	18.87	20.14	20.53	18.46	19.78	18.87	20.14	20.53
	8H	18.61	19.87	19.03	20.25	20.65	18.61	19.87	19.03	20.25	20.65
	12H	18.70	19.90	19.13	20.29	20.71	18.70	19.90	19.13	20.29	20.71
4H	2H	16.29	17.71	16.69	18.06	18.44	16.29	17.71	16.69	18.06	18.44
	3H	18.20	19.39	18.61	19.79	20.19	18.20	19.39	18.61	19.79	20.19
	4H	18.96	20.04	19.39	20.45	20.88	18.96	20.04	19.39	20.45	20.88
	6H	19.54	20.48	19.99	20.92	21.38	19.54	20.48	19.99	20.92	21.38
	8H	19.73	20.61	20.19	21.05	21.52	19.73	20.61	20.19	21.05	21.52
	12H	19.86	20.66	20.34	21.13	21.60	19.86	20.66	20.34	21.13	21.60
8H	4H	19.26	20.14	19.72	20.58	21.04	19.26	20.14	19.72	20.58	21.04
	6H	19.95	20.69	20.45	21.17	21.65	19.95	20.69	20.45	21.17	21.65
	8H	20.21	20.87	20.72	21.38	21.86	20.21	20.87	20.72	21.38	21.86
	12H	20.41	21.00	20.92	21.49	22.04	20.41	21.00	20.92	21.49	22.04
12H	4H	19.29	20.08	19.77	20.56	21.03	19.29	20.08	19.77	20.56	21.03
	6H	20.01	20.67	20.51	21.17	21.66	20.01	20.67	20.51	21.17	21.66
	8H	20.32	20.90	20.83	21.39	21.95	20.32	20.90	20.83	21.39	21.95