

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: P865443

Luminaire Tested: PRLX-2001-S-927-20L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-927-20L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

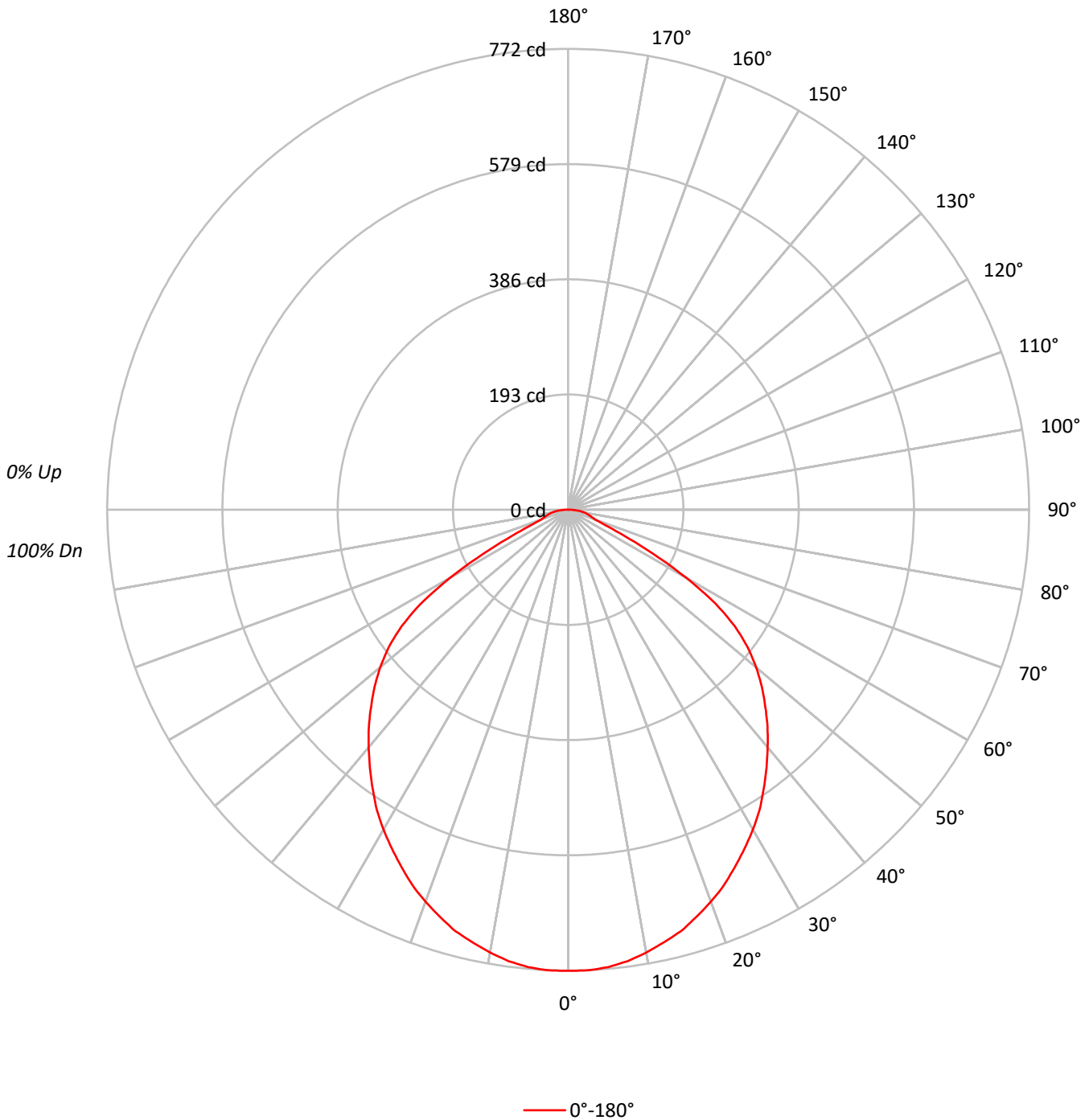
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1767.5 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
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	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

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

	0°
0°	12598
5°	12594
10°	12474
15°	12340
20°	12129
25°	11885
30°	11656
35°	11367
40°	11065
45°	10770
50°	10429
55°	9685
60°	7460
65°	3948
70°	2289
75°	2319
80°	2555
85°	2994

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10770 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.9	4.1
10°-20°	205.7	11.6
20°-30°	304.4	17.2
30°-40°	357.2	20.2
40°-50°	360.2	20.4
50°-60°	297.2	16.8
60°-70°	114.5	6.5
70°-80°	39.1	2.2
80°-90°	16.3	0.9
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°	583.0	33.0
0°-40°	940.2	53.2
0°-60°	1597.6	90.4
0°-90°	1767.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1767.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	772	
5°	769	73
15°	731	206
25°	660	304
35°	571	357
45°	467	360
55°	341	297
65°	102	115
75°	37	39
85°	16	16
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	772.4
2.5°	772.4
5°	769.2
7.5°	762.8
10°	753.2
12.5°	742.0
15°	730.8
17.5°	714.8
20°	698.8
22.5°	681.2
25°	660.4
27.5°	639.7
30°	618.9
32.5°	596.5
35°	570.9
37.5°	545.3
40°	519.7
42.5°	494.1
45°	466.9
47.5°	439.8
50°	411.0
52.5°	379.0
55°	340.6
57.5°	292.6
60°	228.7
62.5°	159.9
65°	102.3
67.5°	65.6
70°	48.0
72.5°	41.6
75°	36.8
77.5°	32.0
80°	27.2
82.5°	22.4
85°	16.0
87.5°	8.0
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	19.86	21.37	20.22	21.68	22.00	19.86	21.37	20.22	21.68	22.00
	3H	20.00	21.34	20.37	21.67	22.03	20.00	21.34	20.37	21.67	22.03
	4H	20.06	21.31	20.46	21.66	22.04	20.06	21.31	20.46	21.66	22.04
	6H	20.14	21.30	20.55	21.67	22.06	20.14	21.30	20.55	21.67	22.06
	8H	20.18	21.28	20.61	21.67	22.08	20.18	21.28	20.61	21.67	22.08
	12H	20.23	21.28	20.66	21.66	22.09	20.23	21.28	20.66	21.66	22.09
4H	2H	19.89	21.15	20.29	21.50	21.88	19.89	21.15	20.29	21.50	21.88
	3H	20.11	21.14	20.52	21.54	21.94	20.11	21.14	20.52	21.54	21.94
	4H	20.23	21.15	20.66	21.56	22.00	20.23	21.15	20.66	21.56	22.00
	6H	20.40	21.19	20.86	21.64	22.10	20.40	21.19	20.86	21.64	22.10
	8H	20.48	21.23	20.94	21.67	22.14	20.48	21.23	20.94	21.67	22.14
	12H	20.57	21.24	21.05	21.72	22.19	20.57	21.24	21.05	21.72	22.19
8H	4H	20.22	20.97	20.69	21.41	21.88	20.22	20.97	20.69	21.41	21.88
	6H	20.46	21.08	20.96	21.57	22.05	20.46	21.08	20.96	21.57	22.05
	8H	20.60	21.16	21.11	21.67	22.16	20.60	21.16	21.11	21.67	22.16
	12H	20.76	21.26	21.27	21.75	22.32	20.76	21.26	21.27	21.75	22.32
12H	4H	20.21	20.88	20.69	21.36	21.83	20.21	20.88	20.69	21.36	21.83
	6H	20.45	21.01	20.97	21.52	22.01	20.45	21.01	20.97	21.52	22.01
	8H	20.64	21.14	21.15	21.63	22.20	20.64	21.14	21.15	21.63	22.20