

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: P865439

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-927-20L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

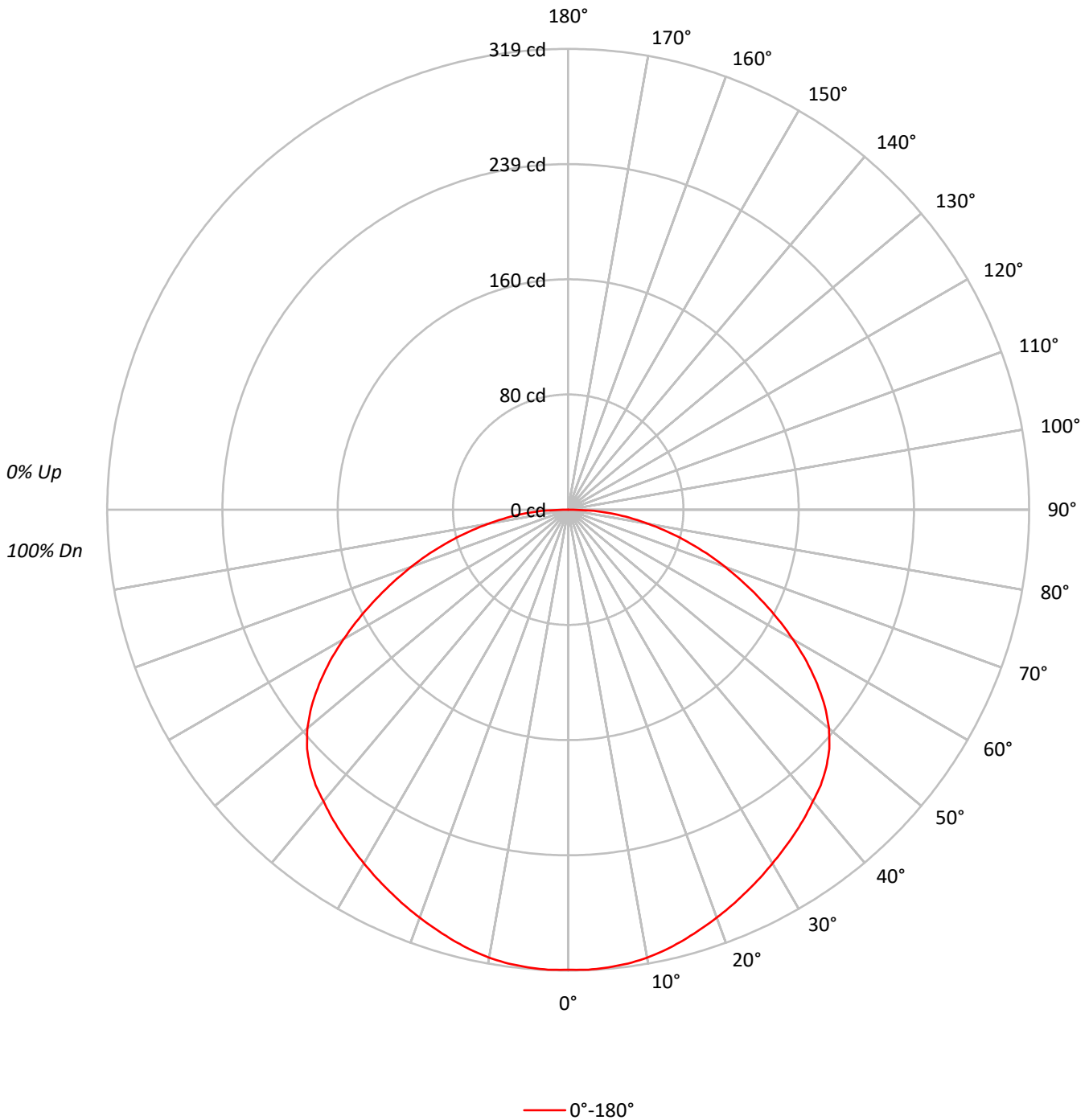
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1073.6 lumens  
Efficiency: N/A  
Efficacy: 49.2 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
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

TEST NUMBER: P865439

CATALOG NUMBER: PRLX-2001-S-927-20L-G-U-S-X-X-WHHR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P865439

CATALOG NUMBER: PRLX-2001-S-927-20L-G-U-S-X-X-WHHR-X

**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	108	103	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	38	33		45	38	33		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	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	29	24		35	28	23		34	28	23	21

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

	0°
0°	5195
5°	5208
10°	5215
15°	5209
20°	5216
25°	5251
30°	5324
35°	5446
40°	5610
45°	5824
50°	5978
55°	5980
60°	5859
65°	5673
70°	5498
75°	5350
80°	5297
85°	5539

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 6656 cd/sqm

TEST NUMBER: P865439

CATALOG NUMBER: PRLX-2001-S-927-20L-G-U-S-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.3	2.8
10°-20°	87.1	8.1
20°-30°	134.8	12.6
30°-40°	171.5	16.0
40°-50°	194.5	18.1
50°-60°	187.4	17.5
60°-70°	145.7	13.6
70°-80°	90.1	8.4
80°-90°	32.3	3.0
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°	252.2	23.5
0°-40°	423.7	39.5
0°-60°	805.5	75.0
0°-90°	1073.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1073.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	318	
5°	318	30
15°	308	87
25°	292	135
35°	274	171
45°	252	194
55°	210	187
65°	147	146
75°	85	90
85°	30	32
90°	0	

TEST NUMBER: P865439

CATALOG NUMBER: PRLX-2001-S-927-20L-G-U-S-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	318.5
2.5°	318.7
5°	318.1
7.5°	316.9
10°	314.9
12.5°	312.0
15°	308.5
17.5°	304.5
20°	300.5
22.5°	296.3
25°	291.8
27.5°	287.4
30°	282.7
32.5°	278.1
35°	273.5
37.5°	268.7
40°	263.5
42.5°	258.7
45°	252.5
47.5°	245.1
50°	235.6
52.5°	224.0
55°	210.3
57.5°	195.6
60°	179.6
62.5°	163.4
65°	147.0
67.5°	131.1
70°	115.3
72.5°	100.3
75°	84.9
77.5°	70.5
80°	56.4
82.5°	42.9
85°	29.6
87.5°	17.8
90°	0.0



TEST NUMBER: P865439  
 CATALOG NUMBER: PRLX-2001-S-927-20L-G-U-S-X-X-WHHR-X

**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	18.61	20.32	18.97	20.63	20.94	18.61	20.32	18.97	20.63	20.94
	3H	20.50	22.05	20.87	22.38	22.73	20.50	22.05	20.87	22.38	22.73
	4H	21.26	22.73	21.66	23.08	23.45	21.26	22.73	21.66	23.08	23.45
	6H	21.90	23.26	22.31	23.63	24.02	21.90	23.26	22.31	23.63	24.02
	8H	22.15	23.45	22.57	23.84	24.24	22.15	23.45	22.57	23.84	24.24
	12H	22.35	23.60	22.78	23.98	24.41	22.35	23.60	22.78	23.98	24.41
4H	2H	19.26	20.73	19.66	21.08	21.45	19.26	20.73	19.66	21.08	21.45
	3H	21.39	22.63	21.80	23.03	23.43	21.39	22.63	21.80	23.03	23.43
	4H	22.30	23.43	22.73	23.84	24.27	22.30	23.43	22.73	23.84	24.27
	6H	23.09	24.08	23.54	24.52	24.97	23.09	24.08	23.54	24.52	24.97
	8H	23.40	24.33	23.86	24.77	25.24	23.40	24.33	23.86	24.77	25.24
	12H	23.67	24.51	24.15	24.99	25.45	23.67	24.51	24.15	24.99	25.45
8H	4H	22.68	23.60	23.13	24.05	24.51	22.68	23.60	23.13	24.05	24.51
	6H	23.62	24.40	24.11	24.88	25.36	23.62	24.40	24.11	24.88	25.36
	8H	24.03	24.73	24.54	25.24	25.72	24.03	24.73	24.54	25.24	25.72
	12H	24.42	25.04	24.92	25.53	26.08	24.42	25.04	24.92	25.53	26.08
12H	4H	22.73	23.57	23.21	24.05	24.51	22.73	23.57	23.21	24.05	24.51
	6H	23.71	24.42	24.22	24.92	25.40	23.71	24.42	24.22	24.92	25.40
	8H	24.20	24.82	24.71	25.31	25.87	24.20	24.82	24.71	25.31	25.87