

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: P865934

Luminaire Tested: PRLX-2001-M-927-55L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-927-55L-G-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

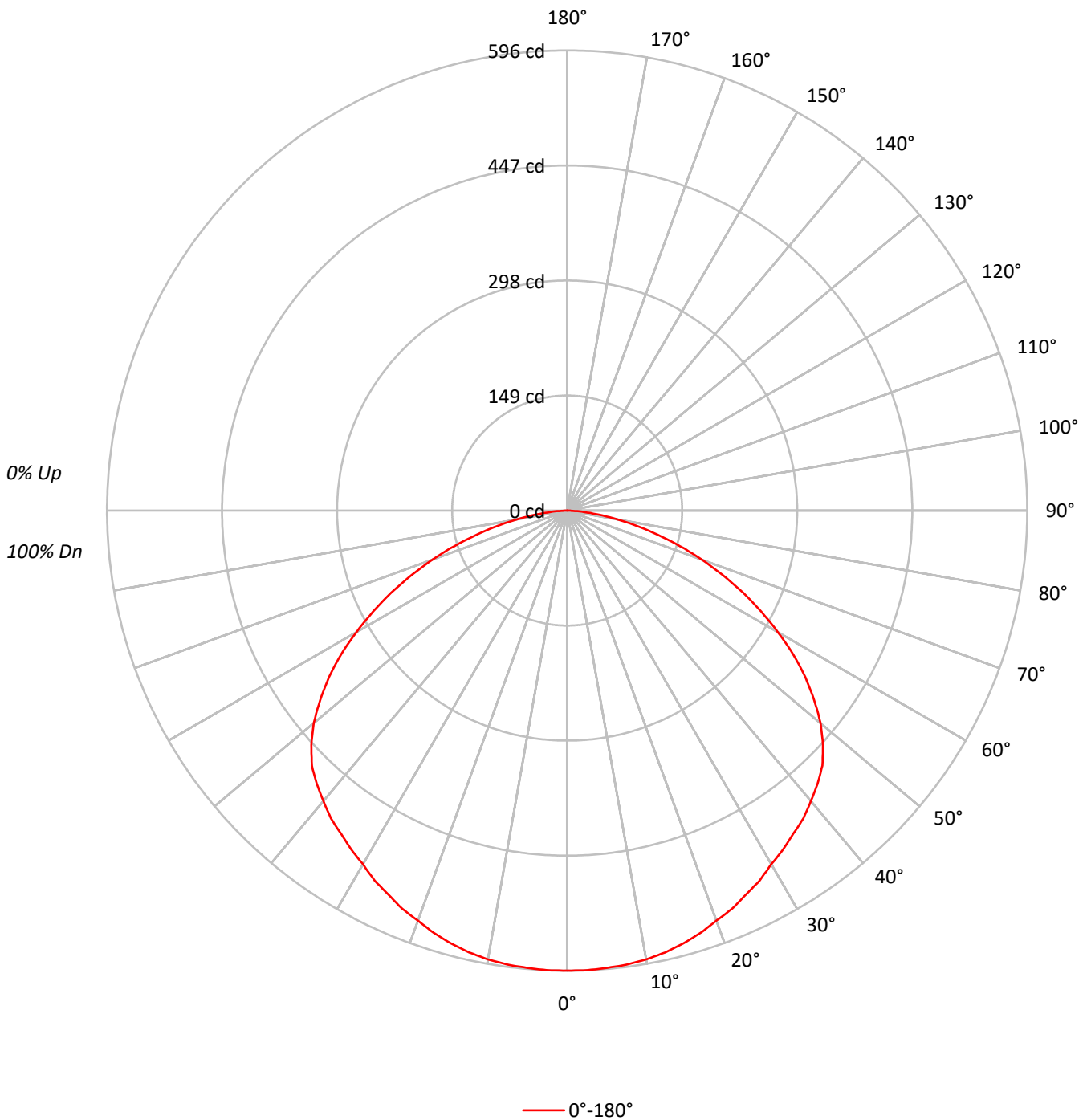
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1895.1 lumens  
Efficiency: N/A  
Efficacy: 39.2 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48.3  
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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	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	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°
0°	5057
5°	5064
10°	5087
15°	5100
20°	5104
25°	5135
30°	5183
35°	5292
40°	5441
45°	5610
50°	5656
55°	5575
60°	5353
65°	5044
70°	4605
75°	3980
80°	3206
85°	2171

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 5656 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.6	3.0
10°-20°	163.9	8.6
20°-30°	253.4	13.4
30°-40°	320.5	16.9
40°-50°	358.8	18.9
50°-60°	335.4	17.7
60°-70°	248.0	13.1
70°-80°	130.2	6.9
80°-90°	28.3	1.5
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°	473.9	25.0
0°-40°	794.4	41.9
0°-60°	1488.6	78.6
0°-90°	1895.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1895.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	596	
5°	594	57
15°	580	164
25°	548	253
35°	511	321
45°	468	359
55°	377	335
65°	251	248
75°	121	130
85°	22	28
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	595.9
2.5°	595.9
5°	594.5
7.5°	593.1
10°	590.3
12.5°	586.1
15°	580.5
17.5°	573.6
20°	565.2
22.5°	558.2
25°	548.4
27.5°	540.1
30°	528.9
32.5°	520.5
35°	510.8
37.5°	502.4
40°	491.2
42.5°	480.1
45°	467.5
47.5°	449.4
50°	428.4
52.5°	403.3
55°	376.8
57.5°	347.5
60°	315.4
62.5°	283.3
65°	251.2
67.5°	217.7
70°	185.6
72.5°	153.5
75°	121.4
77.5°	93.5
80°	65.6
82.5°	41.9
85°	22.3
87.5°	7.0
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	18.40	20.07	18.76	20.39	20.70	18.40	20.07	18.76	20.39	20.70
	3H	20.06	21.57	20.44	21.90	22.26	20.06	21.57	20.44	21.90	22.26
	4H	20.62	22.05	21.02	22.39	22.77	20.62	22.05	21.02	22.39	22.77
	6H	20.98	22.30	21.39	22.67	23.06	20.98	22.30	21.39	22.67	23.06
	8H	21.07	22.33	21.50	22.72	23.12	21.07	22.33	21.50	22.72	23.12
	12H	21.12	22.33	21.54	22.71	23.14	21.12	22.33	21.54	22.71	23.14
4H	2H	19.01	20.43	19.40	20.78	21.15	19.01	20.43	19.40	20.78	21.15
	3H	20.88	22.07	21.28	22.47	22.86	20.88	22.07	21.28	22.47	22.86
	4H	21.55	22.63	21.98	23.04	23.47	21.55	22.63	21.98	23.04	23.47
	6H	22.02	22.96	22.47	23.40	23.85	22.02	22.96	22.47	23.40	23.85
	8H	22.14	23.02	22.60	23.46	23.92	22.14	23.02	22.60	23.46	23.92
	12H	22.21	23.00	22.69	23.48	23.94	22.21	23.00	22.69	23.48	23.94
8H	4H	21.81	22.69	22.27	23.13	23.60	21.81	22.69	22.27	23.13	23.60
	6H	22.36	23.10	22.86	23.58	24.06	22.36	23.10	22.86	23.58	24.06
	8H	22.53	23.19	23.04	23.70	24.18	22.53	23.19	23.04	23.70	24.18
	12H	22.65	23.23	23.15	23.72	24.28	22.65	23.23	23.15	23.72	24.28
12H	4H	21.83	22.62	22.31	23.09	23.56	21.83	22.62	22.31	23.09	23.56
	6H	22.39	23.05	22.90	23.56	24.04	22.39	23.05	22.90	23.56	24.04
	8H	22.61	23.19	23.11	23.68	24.24	22.61	23.19	23.11	23.68	24.24