

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: P866023

Luminaire Tested: PRLX-2001-M-935-07L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866023  
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: PrentaLux  
Catalog Number: PRLX-2001-M-935-07L-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 1  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

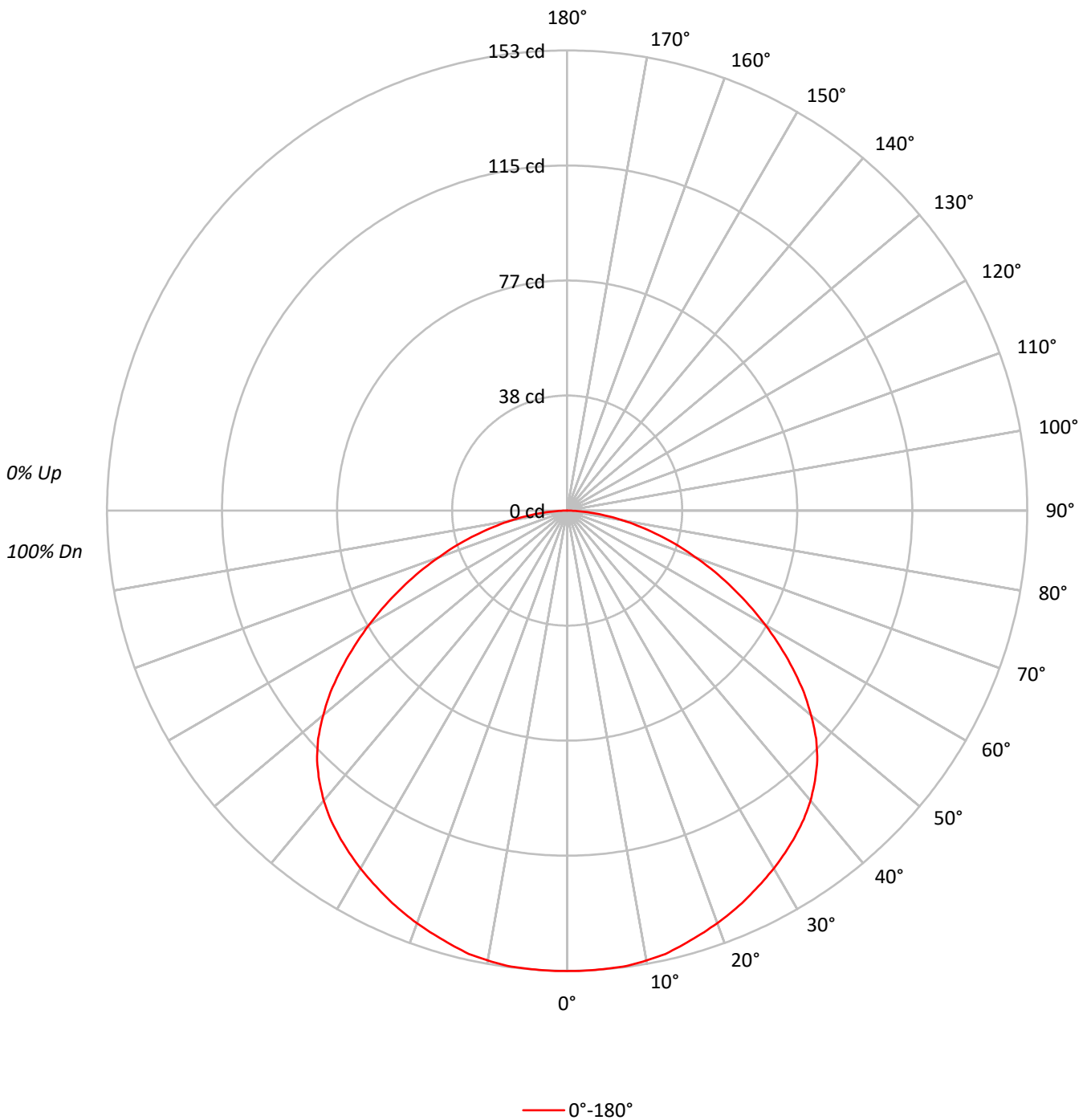
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 479.9 lumens  
Efficiency: N/A  
Efficacy: 58.5 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): 8.2  
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	72	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	40	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°	1299
5°	1302
10°	1309
15°	1313
20°	1318
25°	1330
30°	1346
35°	1370
40°	1395
45°	1411
50°	1398
55°	1355
60°	1292
65°	1215
70°	1126
75°	1036
80°	919
85°	750

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1411 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.6	3.0
10°-20°	42.2	8.8
20°-30°	65.6	13.7
30°-40°	82.8	17.3
40°-50°	90.4	18.8
50°-60°	81.8	17.0
60°-70°	60.0	12.5
70°-80°	33.5	7.0
80°-90°	9.1	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°	122.3	25.5
0°-40°	205.1	42.7
0°-60°	377.3	78.6
0°-90°	479.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	479.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	153	
5°	153	15
15°	149	42
25°	142	66
35°	132	83
45°	118	90
55°	92	82
65°	60	60
75°	32	34
85°	8	9
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	153.1
2.5°	153.1
5°	152.9
7.5°	152.7
10°	151.9
12.5°	151.0
15°	149.4
17.5°	147.7
20°	146.0
22.5°	144.1
25°	142.0
27.5°	139.7
30°	137.4
32.5°	134.9
35°	132.2
37.5°	129.3
40°	125.9
42.5°	122.0
45°	117.6
47.5°	112.3
50°	105.9
52.5°	99.2
55°	91.6
57.5°	83.9
60°	76.1
62.5°	68.2
65°	60.5
67.5°	53.1
70°	45.4
72.5°	38.5
75°	31.6
77.5°	24.9
80°	18.8
82.5°	13.0
85°	7.7
87.5°	3.4
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	13.31	14.97	13.67	15.28	15.60	13.31	14.97	13.67	15.28	15.60
	3H	15.00	16.50	15.37	16.83	17.19	15.00	16.50	15.37	16.83	17.19
	4H	15.63	17.04	16.02	17.39	17.77	15.63	17.04	16.02	17.39	17.77
	6H	16.08	17.40	16.49	17.76	18.15	16.08	17.40	16.49	17.76	18.15
	8H	16.22	17.48	16.65	17.87	18.27	16.22	17.48	16.65	17.87	18.27
	12H	16.31	17.52	16.74	17.90	18.33	16.31	17.52	16.74	17.90	18.33
4H	2H	13.91	15.33	14.31	15.67	16.05	13.91	15.33	14.31	15.67	16.05
	3H	15.82	17.01	16.23	17.41	17.81	15.82	17.01	16.23	17.41	17.81
	4H	16.58	17.65	17.01	18.06	18.50	16.58	17.65	17.01	18.06	18.50
	6H	17.16	18.10	17.61	18.54	18.99	17.16	18.10	17.61	18.54	18.99
	8H	17.35	18.23	17.80	18.67	19.13	17.35	18.23	17.80	18.67	19.13
	12H	17.48	18.27	17.96	18.75	19.22	17.48	18.27	17.96	18.75	19.22
8H	4H	16.87	17.75	17.33	18.19	18.66	16.87	17.75	17.33	18.19	18.66
	6H	17.57	18.30	18.06	18.79	19.26	17.57	18.30	18.06	18.79	19.26
	8H	17.83	18.49	18.33	18.99	19.48	17.83	18.49	18.33	18.99	19.48
	12H	18.03	18.61	18.53	19.10	19.66	18.03	18.61	18.53	19.10	19.66
12H	4H	16.90	17.70	17.38	18.17	18.64	16.90	17.70	17.38	18.17	18.64
	6H	17.62	18.28	18.13	18.79	19.27	17.62	18.28	18.13	18.79	19.27
	8H	17.93	18.52	18.44	19.01	19.57	17.93	18.52	18.44	19.01	19.57