

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: P865895

Luminaire Tested: PRLX-2001-M-927-07L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865895  
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-927-07L-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

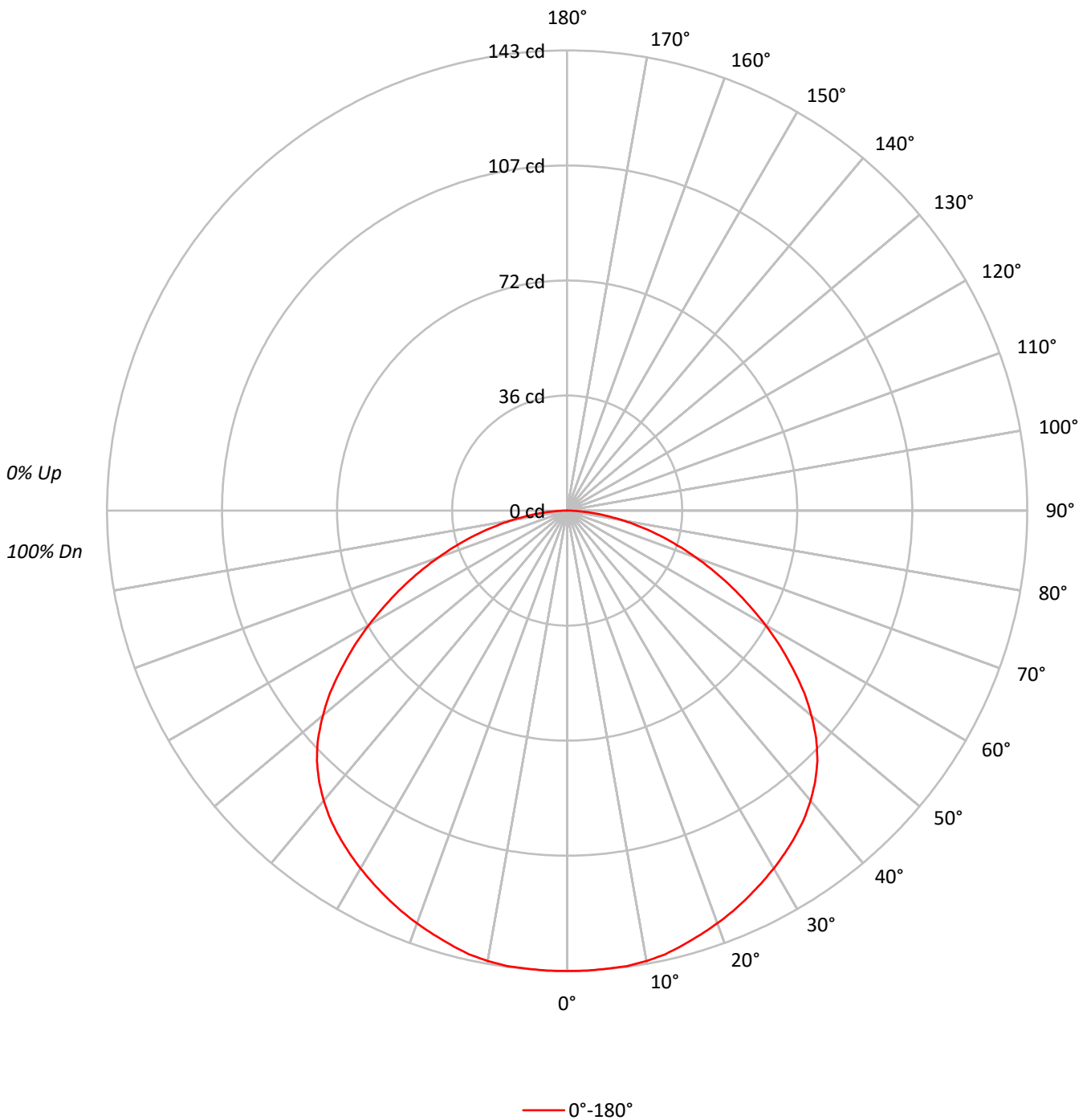
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 448.8 lumens  
Efficiency: N/A  
Efficacy: 54.7 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	85	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°	1214
5°	1217
10°	1224
15°	1227
20°	1233
25°	1243
30°	1258
35°	1280
40°	1304
45°	1320
50°	1308
55°	1266
60°	1207
65°	1137
70°	1054
75°	971
80°	860
85°	701

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1320 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.6	3.0
10°-20°	39.5	8.8
20°-30°	61.3	13.7
30°-40°	77.4	17.2
40°-50°	84.5	18.8
50°-60°	76.5	17.0
60°-70°	56.1	12.5
70°-80°	31.4	7.0
80°-90°	8.5	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°	114.4	25.5
0°-40°	191.8	42.7
0°-60°	352.7	78.6
0°-90°	448.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	448.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	143	
5°	143	14
15°	140	39
25°	133	61
35°	124	77
45°	110	85
55°	86	76
65°	57	56
75°	30	31
85°	7	9
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	143.1
2.5°	143.1
5°	142.9
7.5°	142.8
10°	142.1
12.5°	141.2
15°	139.7
17.5°	138.1
20°	136.5
22.5°	134.7
25°	132.7
27.5°	130.6
30°	128.4
32.5°	126.1
35°	123.6
37.5°	120.9
40°	117.7
42.5°	114.1
45°	110.0
47.5°	105.0
50°	99.1
52.5°	92.8
55°	85.6
57.5°	78.5
60°	71.1
62.5°	63.8
65°	56.6
67.5°	49.6
70°	42.5
72.5°	36.0
75°	29.6
77.5°	23.3
80°	17.6
82.5°	12.2
85°	7.2
87.5°	3.2
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	13.08	14.74	13.44	15.05	15.37	13.08	14.74	13.44	15.05	15.37
	3H	14.77	16.27	15.14	16.60	16.96	14.77	16.27	15.14	16.60	16.96
	4H	15.39	16.81	15.79	17.16	17.53	15.39	16.81	15.79	17.16	17.53
	6H	15.85	17.16	16.26	17.53	17.92	15.85	17.16	16.26	17.53	17.92
	8H	15.99	17.25	16.42	17.64	18.04	15.99	17.25	16.42	17.64	18.04
	12H	16.09	17.29	16.51	17.67	18.10	16.09	17.29	16.51	17.67	18.10
4H	2H	13.68	15.10	14.08	15.44	15.82	13.68	15.10	14.08	15.44	15.82
	3H	15.59	16.78	16.00	17.17	17.57	15.59	16.78	16.00	17.17	17.57
	4H	16.35	17.42	16.78	17.83	18.27	16.35	17.42	16.78	17.83	18.27
	6H	16.93	17.87	17.38	18.31	18.76	16.93	17.87	17.38	18.31	18.76
	8H	17.12	18.00	17.58	18.44	18.90	17.12	18.00	17.58	18.44	18.90
	12H	17.25	18.04	17.73	18.52	18.99	17.25	18.04	17.73	18.52	18.99
8H	4H	16.64	17.52	17.10	17.96	18.43	16.64	17.52	17.10	17.96	18.43
	6H	17.34	18.07	17.83	18.56	19.03	17.34	18.07	17.83	18.56	19.03
	8H	17.60	18.26	18.11	18.76	19.25	17.60	18.26	18.11	18.76	19.25
	12H	17.80	18.38	18.31	18.87	19.43	17.80	18.38	18.31	18.87	19.43
12H	4H	16.67	17.47	17.15	17.94	18.41	16.67	17.47	17.15	17.94	18.41
	6H	17.39	18.05	17.90	18.56	19.04	17.39	18.05	17.90	18.56	19.04
	8H	17.71	18.29	18.21	18.78	19.34	17.71	18.29	18.21	18.78	19.34