

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: P866803

Luminaire Tested: PRLX-2001-L-935-117L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-935-117L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

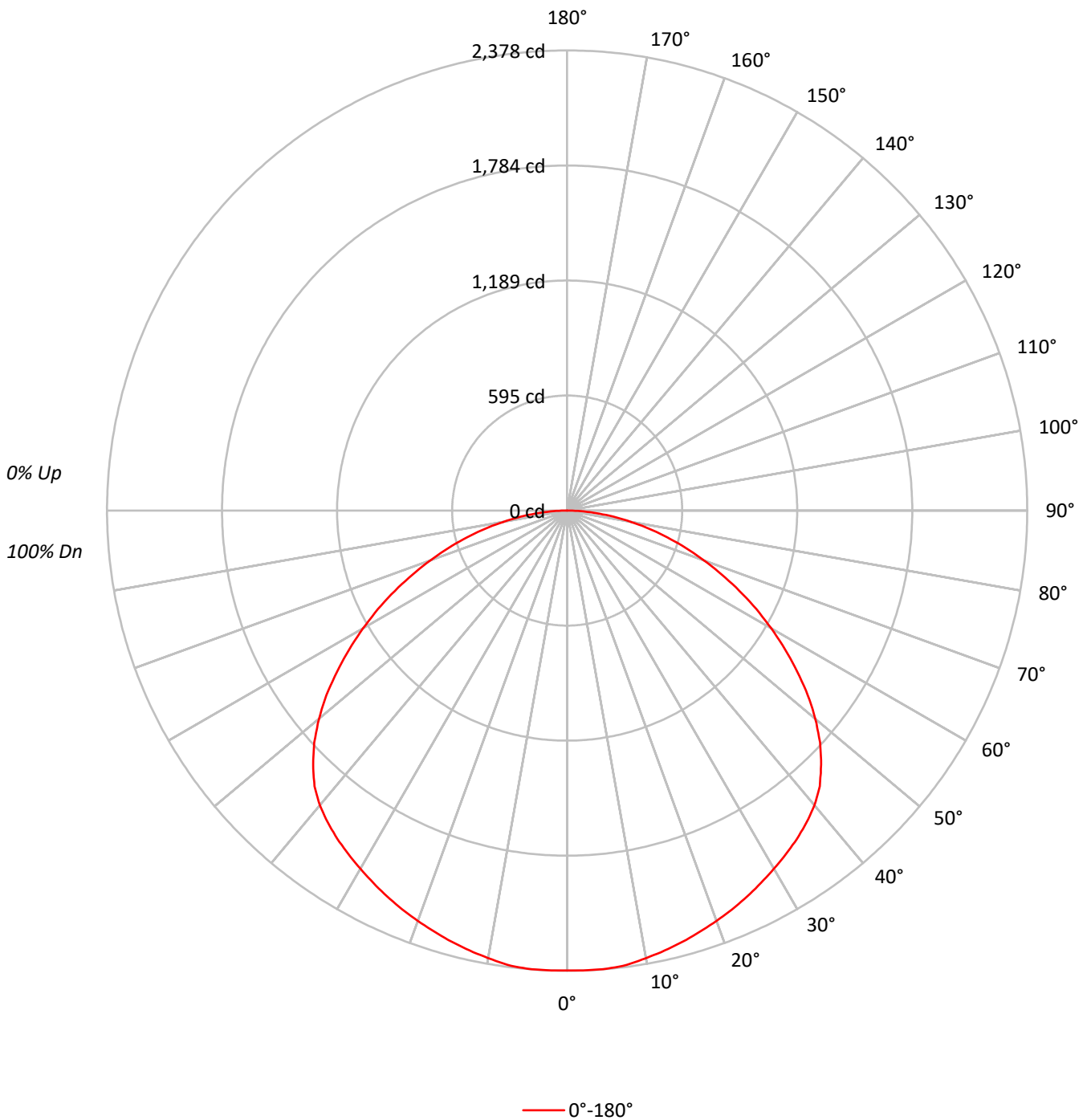
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7629.1 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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

	0°
0°	12993
5°	13042
10°	13037
15°	13056
20°	13131
25°	13275
30°	13492
35°	13819
40°	14191
45°	14352
50°	14239
55°	13835
60°	13311
65°	12707
70°	12025
75°	11296
80°	10515
85°	9396

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14352 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.0	3.0
10°-20°	652.1	8.5
20°-30°	1016.4	13.3
30°-40°	1297.1	17.0
40°-50°	1427.8	18.7
50°-60°	1297.3	17.0
60°-70°	973.2	12.8
70°-80°	568.9	7.5
80°-90°	170.3	2.2
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°	1894.4	24.8
0°-40°	3191.6	41.8
0°-60°	5916.7	77.6
0°-90°	7629.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7629.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2377	
5°	2377	226
15°	2307	652
25°	2201	1016
35°	2071	1297
45°	1856	1428
55°	1452	1297
65°	982	973
75°	535	569
85°	150	170
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2376.6
2.5°	2377.7
5°	2376.6
7.5°	2368.3
10°	2348.5
12.5°	2328.8
15°	2306.9
17.5°	2281.9
20°	2257.0
22.5°	2229.9
25°	2200.8
27.5°	2169.5
30°	2137.3
32.5°	2105.0
35°	2070.7
37.5°	2032.2
40°	1988.5
42.5°	1932.3
45°	1856.3
47.5°	1772.1
50°	1674.2
52.5°	1568.1
55°	1451.6
57.5°	1336.1
60°	1217.4
62.5°	1101.9
65°	982.3
67.5°	864.7
70°	752.3
72.5°	644.1
75°	534.8
77.5°	435.0
80°	334.0
82.5°	239.3
85°	149.8
87.5°	69.7
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	21.39	23.06	21.75	23.38	23.69	21.39	23.06	21.75	23.38	23.69
	3H	23.16	24.68	23.54	25.01	25.36	23.16	24.68	23.54	25.01	25.36
	4H	23.85	25.28	24.24	25.63	26.00	23.85	25.28	24.24	25.63	26.00
	6H	24.38	25.71	24.79	26.07	26.46	24.38	25.71	24.79	26.07	26.46
	8H	24.56	25.83	24.98	26.22	26.62	24.56	25.83	24.98	26.22	26.62
	12H	24.69	25.91	25.12	26.29	26.72	24.69	25.91	25.12	26.29	26.72
4H	2H	22.01	23.45	22.41	23.79	24.17	22.01	23.45	22.41	23.79	24.17
	3H	24.02	25.22	24.43	25.62	26.02	24.02	25.22	24.43	25.62	26.02
	4H	24.84	25.93	25.27	26.34	26.77	24.84	25.93	25.27	26.34	26.77
	6H	25.51	26.46	25.96	26.90	27.36	25.51	26.46	25.96	26.90	27.36
	8H	25.74	26.64	26.20	27.08	27.54	25.74	26.64	26.20	27.08	27.54
	12H	25.92	26.73	26.40	27.20	27.67	25.92	26.73	26.40	27.20	27.67
8H	4H	25.17	26.06	25.63	26.50	26.97	25.17	26.06	25.63	26.50	26.97
	6H	25.97	26.72	26.46	27.20	27.68	25.97	26.72	26.46	27.20	27.68
	8H	26.28	26.96	26.79	27.46	27.94	26.28	26.96	26.79	27.46	27.94
	12H	26.54	27.14	27.05	27.63	28.19	26.54	27.14	27.05	27.63	28.19
12H	4H	25.21	26.02	25.69	26.49	26.96	25.21	26.02	25.69	26.49	26.96
	6H	26.04	26.71	26.54	27.21	27.70	26.04	26.71	26.54	27.21	27.70
	8H	26.41	27.01	26.92	27.50	28.06	26.41	27.01	26.92	27.50	28.06