

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: P867307

Luminaire Tested: PRLX-2004-L-935-100L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-L-935-100L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

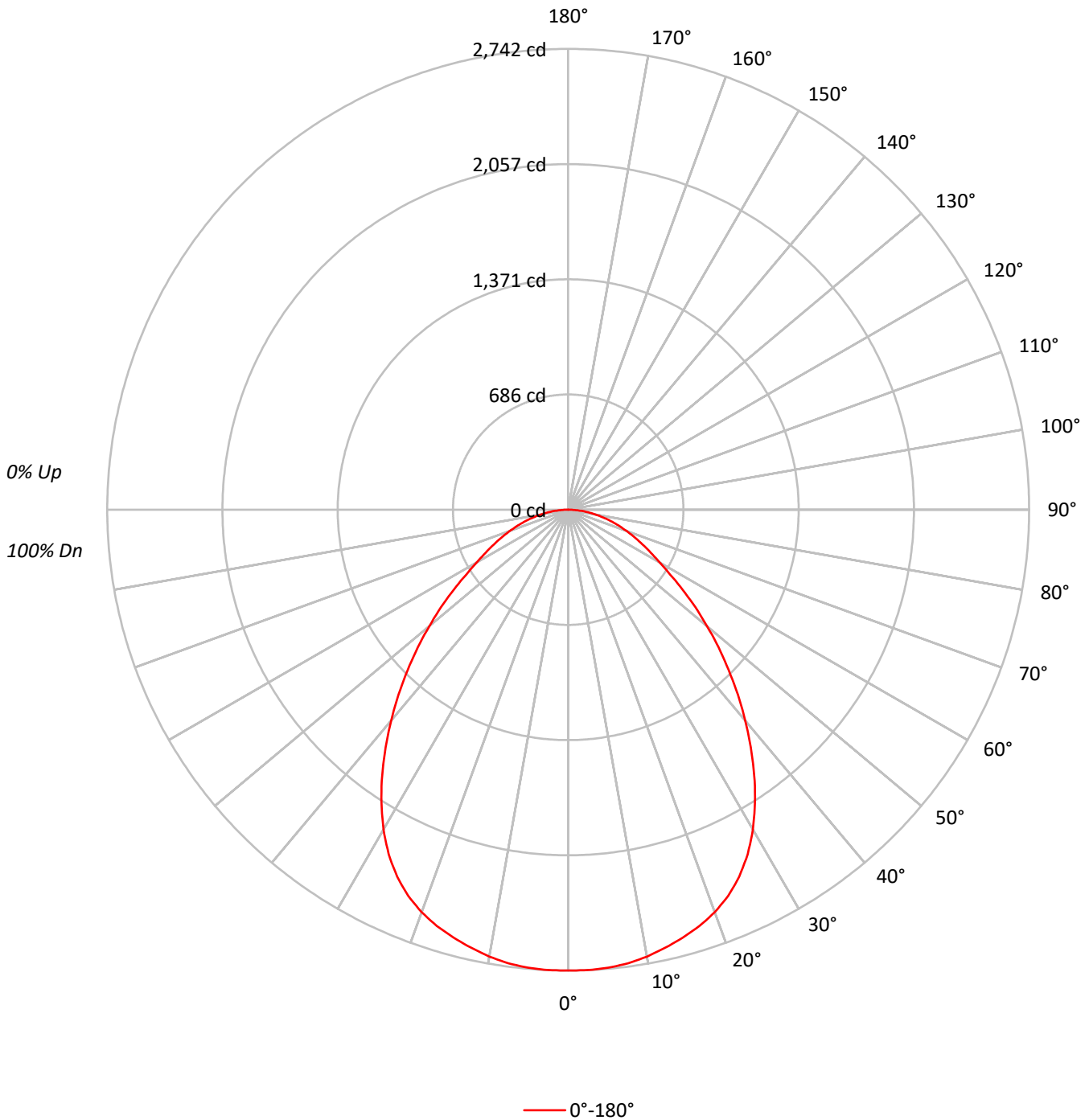
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5952.3 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 79.4  
Input Voltage (V): 120  
Input Current (Ain): 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31	30

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

	0°
0°	13527
5°	13552
10°	13526
15°	13463
20°	13381
25°	13109
30°	12518
35°	11622
40°	10548
45°	9416
50°	8276
55°	7147
60°	6197
65°	5691
70°	5313
75°	4985
80°	4702
85°	4432

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9416 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.0	4.4
10°-20°	743.8	12.5
20°-30°	1103.9	18.5
30°-40°	1202.2	20.2
40°-50°	1042.4	17.5
50°-60°	749.1	12.6
60°-70°	485.8	8.2
70°-80°	278.0	4.7
80°-90°	87.2	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°	2107.7	35.4
0°-40°	3309.9	55.6
0°-60°	5101.4	85.7
0°-90°	5952.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5952.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2742	
5°	2736	260
15°	2636	744
25°	2408	1104
35°	1930	1202
45°	1350	1042
55°	831	749
65°	488	486
75°	262	278
85°	78	87
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2741.7
2.5°	2741.7
5°	2736.3
7.5°	2722.1
10°	2699.9
12.5°	2669.6
15°	2635.8
17.5°	2596.7
20°	2548.6
22.5°	2487.3
25°	2408.1
27.5°	2312.0
30°	2197.3
32.5°	2068.3
35°	1929.5
37.5°	1783.6
40°	1637.7
42.5°	1493.6
45°	1349.5
47.5°	1213.4
50°	1078.2
52.5°	953.6
55°	830.9
57.5°	719.7
60°	628.0
62.5°	553.3
65°	487.5
67.5°	425.2
70°	368.3
72.5°	313.1
75°	261.5
77.5°	212.6
80°	165.5
82.5°	121.0
85°	78.3
87.5°	38.3
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	17.80	19.30	18.17	19.61	19.93	17.80	19.30	18.17	19.61	19.93
	3H	19.31	20.66	19.69	20.99	21.35	19.31	20.66	19.69	20.99	21.35
	4H	19.91	21.18	20.31	21.52	21.90	19.91	21.18	20.31	21.52	21.90
	6H	20.39	21.56	20.80	21.92	22.32	20.39	21.56	20.80	21.92	22.32
	8H	20.56	21.67	20.99	22.06	22.46	20.56	21.67	20.99	22.06	22.46
	12H	20.68	21.75	21.11	22.13	22.56	20.68	21.75	21.11	22.13	22.56
4H	2H	18.30	19.56	18.70	19.91	20.29	18.30	19.56	18.70	19.91	20.29
	3H	20.06	21.10	20.47	21.50	21.90	20.06	21.10	20.47	21.50	21.90
	4H	20.79	21.73	21.22	22.15	22.59	20.79	21.73	21.22	22.15	22.59
	6H	21.41	22.23	21.87	22.67	23.13	21.41	22.23	21.87	22.67	23.13
	8H	21.63	22.40	22.09	22.84	23.31	21.63	22.40	22.09	22.84	23.31
	12H	21.80	22.49	22.29	22.97	23.44	21.80	22.49	22.29	22.97	23.44
8H	4H	21.07	21.84	21.53	22.28	22.75	21.07	21.84	21.53	22.28	22.75
	6H	21.82	22.45	22.31	22.94	23.42	21.82	22.45	22.31	22.94	23.42
	8H	22.12	22.69	22.64	23.20	23.69	22.12	22.69	22.64	23.20	23.69
	12H	22.38	22.89	22.89	23.38	23.95	22.38	22.89	22.89	23.38	23.95
12H	4H	21.09	21.78	21.58	22.26	22.73	21.09	21.78	21.58	22.26	22.73
	6H	21.87	22.44	22.39	22.95	23.44	21.87	22.44	22.39	22.95	23.44
	8H	22.24	22.75	22.75	23.24	23.80	22.24	22.75	22.75	23.24	23.80