

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: P867118

Luminaire Tested: PRLX-2002-L-940-117L-L-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-940-117L-L-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

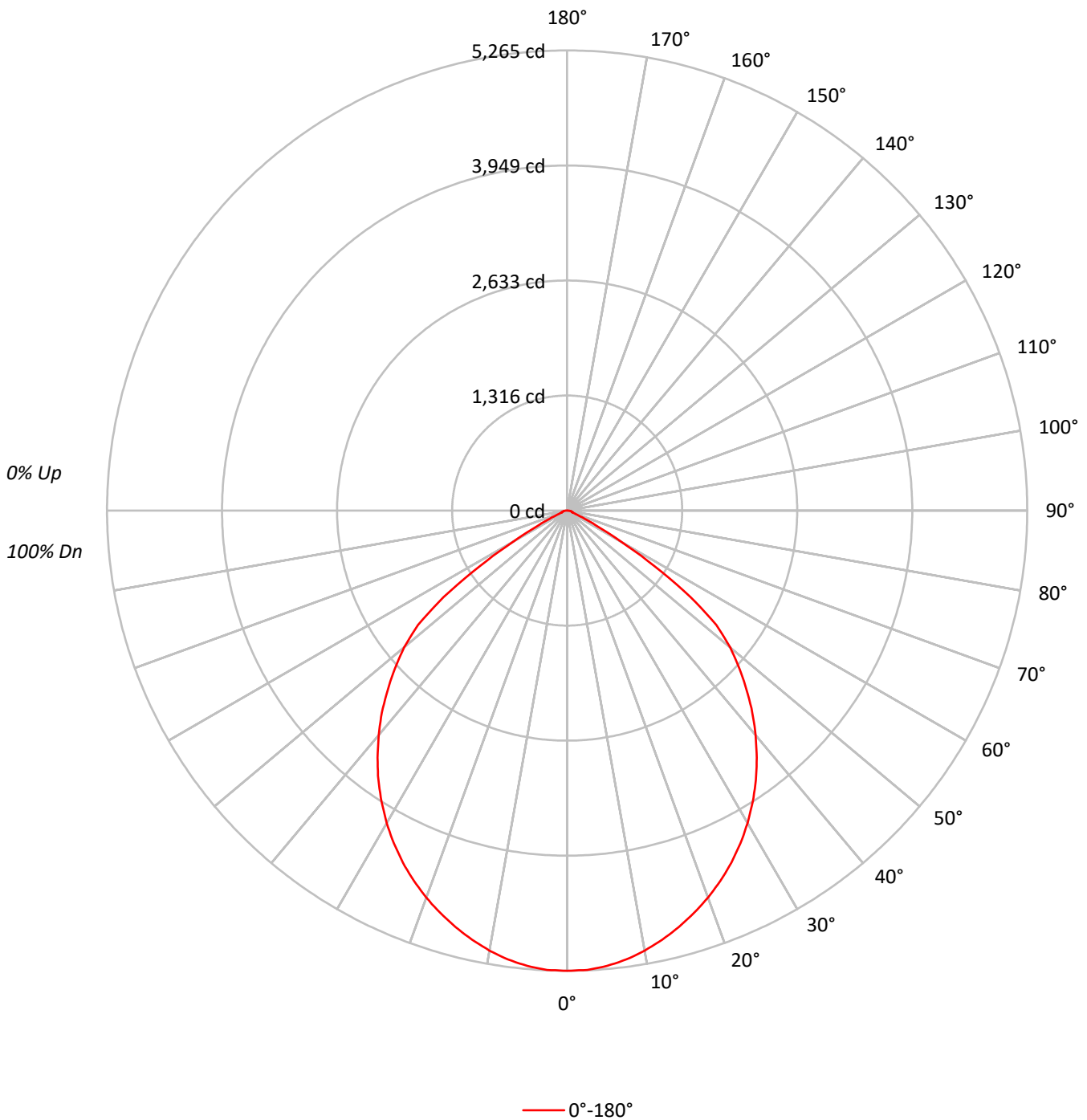
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10348.6 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27  
Luminous Opening: Circular (Dia: 1.67' 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: 0.5 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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

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

	0°
0°	25978
5°	25900
10°	25612
15°	25202
20°	24742
25°	24199
30°	23518
35°	22684
40°	21598
45°	20268
50°	18677
55°	14848
60°	6989
65°	2524
70°	972
75°	1077
80°	1236
85°	1477

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20268 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	495.5	4.8
10°-20°	1390.5	13.4
20°-30°	2045.2	19.8
30°-40°	2349.7	22.7
40°-50°	2238.1	21.6
50°-60°	1471.8	14.2
60°-70°	271.9	2.6
70°-80°	59.4	0.6
80°-90°	26.6	0.3
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°	3931.1	38.0
0°-40°	6280.9	60.7
0°-60°	9990.7	96.5
0°-90°	10348.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10348.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5265	
5°	5230	495
15°	4934	1390
25°	4445	2045
35°	3766	2350
45°	2905	2238
55°	1726	1472
65°	216	272
75°	56	59
85°	26	27
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5265.3
2.5°	5259.9
5°	5229.5
7.5°	5180.6
10°	5112.2
12.5°	5028.5
15°	4934.0
17.5°	4827.6
20°	4712.4
22.5°	4584.2
25°	4445.2
27.5°	4293.1
30°	4128.0
32.5°	3950.9
35°	3766.2
37.5°	3564.2
40°	3353.4
42.5°	3137.3
45°	2904.8
47.5°	2674.5
50°	2433.3
52.5°	2150.9
55°	1726.1
57.5°	1183.0
60°	708.3
62.5°	398.7
65°	216.2
67.5°	108.6
70°	67.4
72.5°	61.9
75°	56.5
77.5°	51.1
80°	43.5
82.5°	35.8
85°	26.1
87.5°	14.1
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	19.31	20.71	19.67	21.03	21.34	19.31	20.71	19.67	21.03	21.34
	3H	19.23	20.46	19.61	20.79	21.15	19.23	20.46	19.61	20.79	21.15
	4H	19.18	20.32	19.58	20.68	21.06	19.18	20.32	19.58	20.68	21.06
	6H	19.13	20.18	19.55	20.55	20.95	19.13	20.18	19.55	20.55	20.95
	8H	19.11	20.10	19.53	20.49	20.90	19.11	20.10	19.53	20.49	20.90
	12H	19.08	20.03	19.51	20.41	20.84	19.08	20.03	19.51	20.41	20.84
4H	2H	19.18	20.33	19.59	20.68	21.06	19.18	20.33	19.59	20.68	21.06
	3H	19.12	20.04	19.53	20.44	20.85	19.12	20.04	19.53	20.44	20.85
	4H	19.06	19.89	19.50	20.30	20.75	19.06	19.89	19.50	20.30	20.75
	6H	19.03	19.74	19.49	20.19	20.65	19.03	19.74	19.49	20.19	20.65
	8H	19.00	19.67	19.47	20.11	20.58	19.00	19.67	19.47	20.11	20.58
	12H	18.99	19.57	19.47	20.06	20.53	18.99	19.57	19.47	20.06	20.53
8H	4H	18.95	19.61	19.42	20.06	20.53	18.95	19.61	19.42	20.06	20.53
	6H	18.91	19.46	19.41	19.96	20.44	18.91	19.46	19.41	19.96	20.44
	8H	18.89	19.39	19.41	19.90	20.39	18.89	19.39	19.41	19.90	20.39
	12H	18.89	19.33	19.40	19.83	20.39	18.89	19.33	19.40	19.83	20.39
12H	4H	18.91	19.50	19.40	19.98	20.45	18.91	19.50	19.40	19.98	20.45
	6H	18.86	19.35	19.38	19.87	20.36	18.86	19.35	19.38	19.87	20.36
	8H	18.86	19.30	19.37	19.80	20.37	18.86	19.30	19.37	19.80	20.37