

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: P867097

Luminaire Tested: PRLX-2002-L-935-67L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867097  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-935-67L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

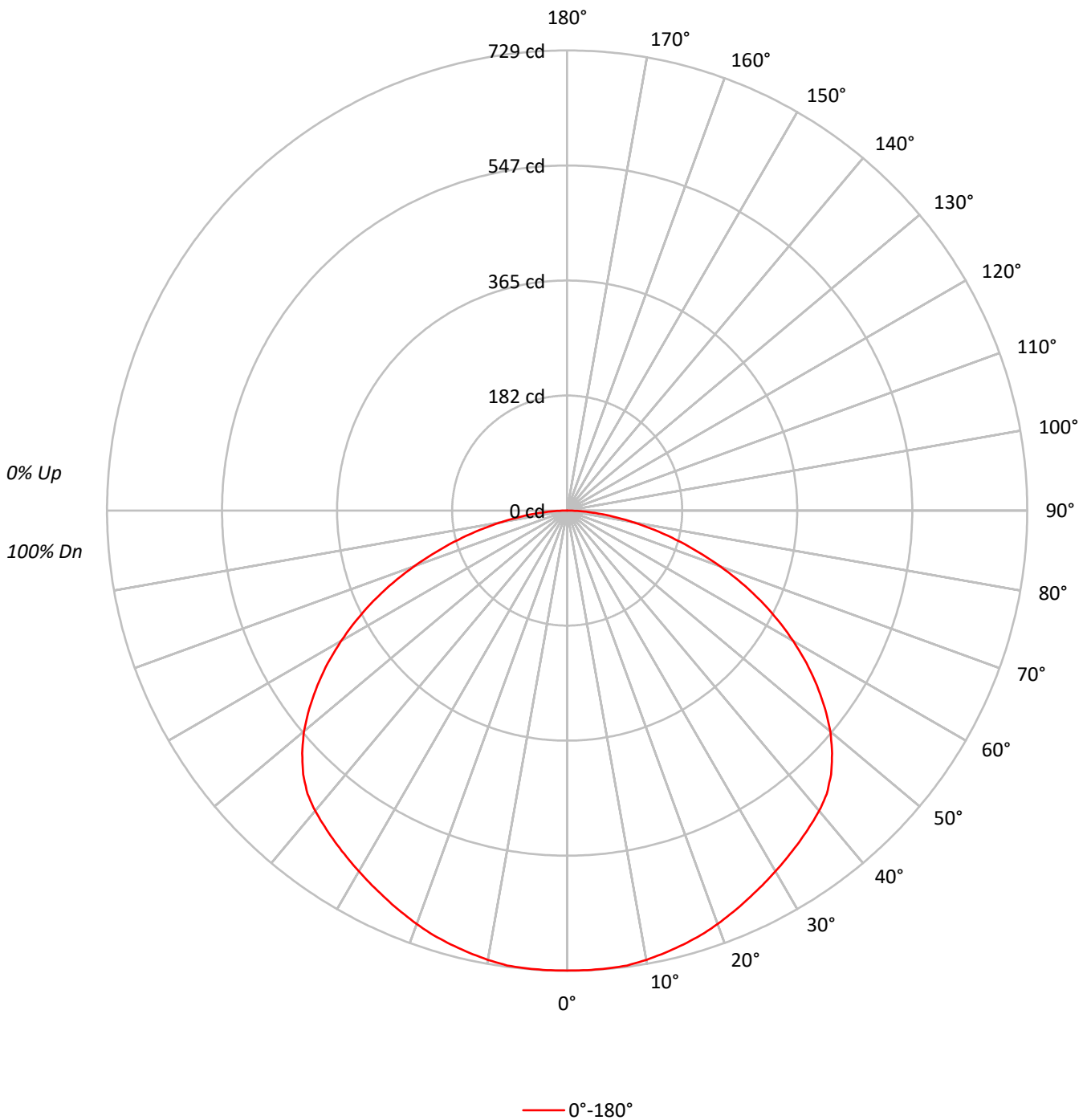
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2447.4 lumens  
Efficiency: N/A  
Efficacy: 48.6 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 50.4  
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

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

	0°
0°	3595
5°	3606
10°	3621
15°	3635
20°	3659
25°	3695
30°	3760
35°	3861
40°	4000
45°	4125
50°	4177
55°	4155
60°	4082
65°	3952
70°	3713
75°	3405
80°	3037
85°	2496

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 4177 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	2.8
10°-20°	201.2	8.2
20°-30°	313.6	12.8
30°-40°	402.1	16.4
40°-50°	454.6	18.6
50°-60°	430.9	17.6
60°-70°	333.8	13.6
70°-80°	189.8	7.8
80°-90°	52.1	2.1
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°	584.2	23.9
0°-40°	986.2	40.3
0°-60°	1871.7	76.5
0°-90°	2447.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2447.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	729	
5°	728	69
15°	712	201
25°	679	314
35°	641	402
45°	591	455
55°	483	431
65°	338	334
75°	179	190
85°	44	52
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	728.7
2.5°	728.7
5°	728.1
7.5°	726.9
10°	722.8
12.5°	717.5
15°	711.6
17.5°	705.2
20°	696.9
22.5°	688.1
25°	678.7
27.5°	669.3
30°	659.9
32.5°	650.5
35°	641.1
37.5°	631.1
40°	621.1
42.5°	608.8
45°	591.2
47.5°	569.4
50°	544.2
52.5°	514.8
55°	483.0
57.5°	449.5
60°	413.7
62.5°	376.7
65°	338.5
67.5°	298.5
70°	257.4
72.5°	217.4
75°	178.6
77.5°	141.6
80°	106.9
82.5°	74.0
85°	44.1
87.5°	20.0
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	17.39	19.09	17.75	19.40	19.71	17.39	19.09	17.75	19.40	19.71
	3H	19.23	20.77	19.61	21.09	21.45	19.23	20.77	19.61	21.09	21.45
	4H	19.90	21.35	20.29	21.70	22.07	19.90	21.35	20.29	21.70	22.07
	6H	20.38	21.73	20.79	22.10	22.49	20.38	21.73	20.79	22.10	22.49
	8H	20.54	21.83	20.96	22.22	22.61	20.54	21.83	20.96	22.22	22.61
	12H	20.64	21.87	21.07	22.26	22.68	20.64	21.87	21.07	22.26	22.68
4H	2H	18.05	19.50	18.45	19.85	20.23	18.05	19.50	18.45	19.85	20.23
	3H	20.10	21.32	20.51	21.72	22.12	20.10	21.32	20.51	21.72	22.12
	4H	20.90	22.00	21.33	22.41	22.85	20.90	22.00	21.33	22.41	22.85
	6H	21.51	22.48	21.96	22.92	23.37	21.51	22.48	21.96	22.92	23.37
	8H	21.71	22.62	22.17	23.06	23.52	21.71	22.62	22.17	23.06	23.52
	12H	21.85	22.67	22.33	23.15	23.61	21.85	22.67	22.33	23.15	23.61
8H	4H	21.21	22.12	21.67	22.56	23.03	21.21	22.12	21.67	22.56	23.03
	6H	21.95	22.70	22.44	23.19	23.66	21.95	22.70	22.44	23.19	23.66
	8H	22.22	22.90	22.72	23.40	23.89	22.22	22.90	22.72	23.40	23.89
	12H	22.43	23.03	22.94	23.52	24.08	22.43	23.03	22.94	23.52	24.08
12H	4H	21.25	22.07	21.73	22.54	23.01	21.25	22.07	21.73	22.54	23.01
	6H	22.00	22.69	22.51	23.19	23.67	22.00	22.69	22.51	23.19	23.67
	8H	22.33	22.93	22.84	23.42	23.98	22.33	22.93	22.84	23.42	23.98