

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: P866253

Luminaire Tested: PRLX-2002-M-930-55L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866253  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-930-55L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

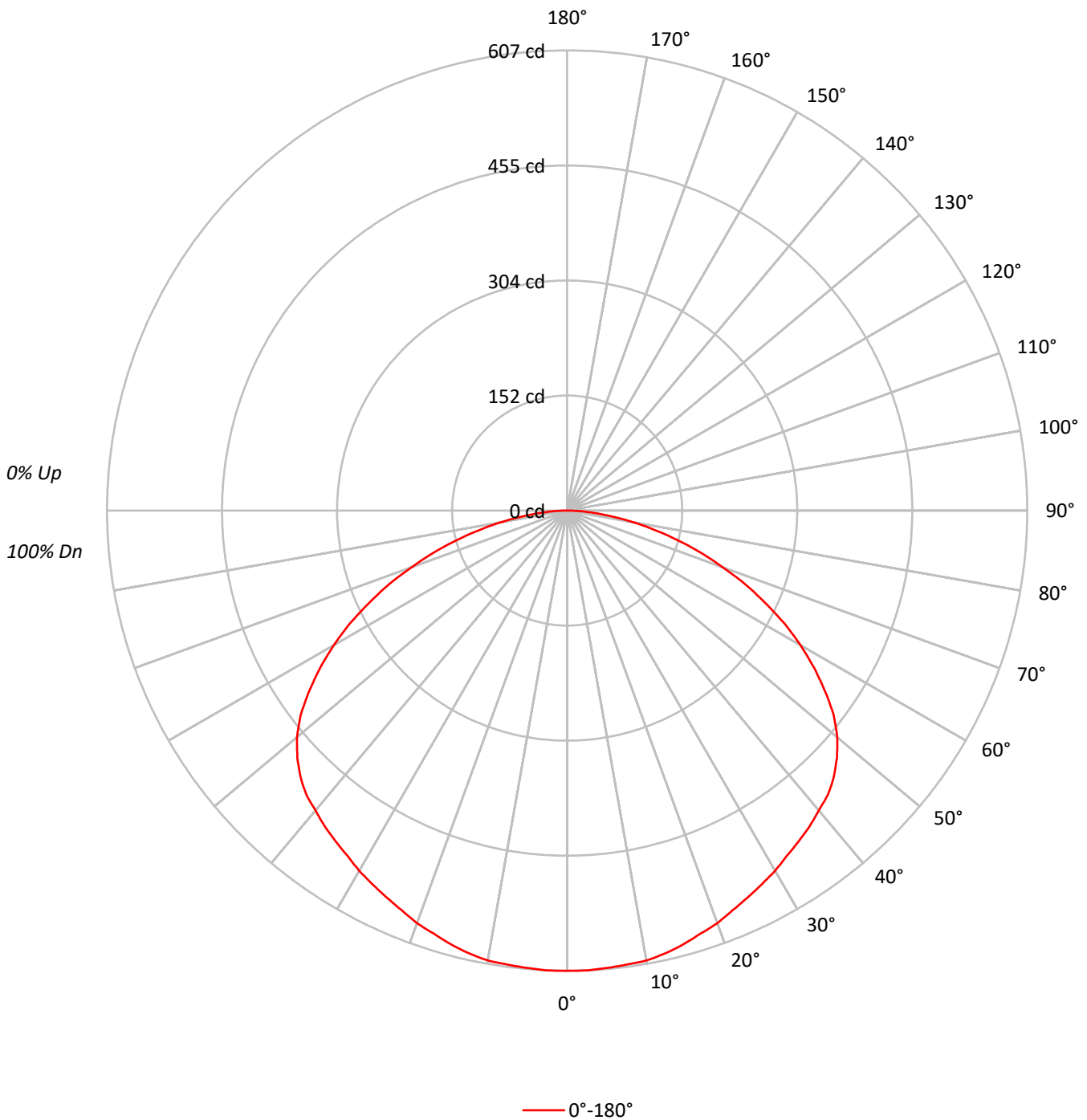
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2059.9 lumens  
Efficiency: N/A  
Efficacy: 42.6 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48.3  
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	64	60		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

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

	0°
0°	4830
5°	4836
10°	4869
15°	4879
20°	4905
25°	4944
30°	5040
35°	5172
40°	5363
45°	5596
50°	5758
55°	5762
60°	5657
65°	5425
70°	5071
75°	4632
80°	4023
85°	3204

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 5792 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.7	2.8
10°-20°	167.4	8.1
20°-30°	260.4	12.6
30°-40°	334.1	16.2
40°-50°	382.8	18.6
50°-60°	370.3	18.0
60°-70°	285.2	13.8
70°-80°	159.9	7.8
80°-90°	42.2	2.0
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°	485.5	23.6
0°-40°	819.6	39.8
0°-60°	1572.7	76.3
0°-90°	2059.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	607	
5°	606	58
15°	592	167
25°	563	260
35°	532	334
45°	497	383
55°	415	370
65°	288	285
75°	151	160
85°	35	42
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	607.1
2.5°	607.1
5°	605.6
7.5°	604.1
10°	602.7
12.5°	598.3
15°	592.4
17.5°	585.1
20°	579.3
22.5°	570.5
25°	563.2
27.5°	555.9
30°	548.6
32.5°	539.8
35°	532.5
37.5°	525.2
40°	516.4
42.5°	509.1
45°	497.4
47.5°	482.7
50°	465.2
52.5°	443.2
55°	415.4
57.5°	386.2
60°	355.5
62.5°	323.3
65°	288.2
67.5°	254.5
70°	218.0
72.5°	184.3
75°	150.7
77.5°	118.5
80°	87.8
82.5°	60.0
85°	35.1
87.5°	16.1
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	18.59	20.29	18.95	20.60	20.92	18.59	20.29	18.95	20.60	20.92
	3H	20.40	21.94	20.77	22.26	22.62	20.40	21.94	20.77	22.26	22.62
	4H	21.05	22.51	21.45	22.85	23.23	21.05	22.51	21.45	22.85	23.23
	6H	21.51	22.86	21.92	23.23	23.62	21.51	22.86	21.92	23.23	23.62
	8H	21.65	22.94	22.07	23.33	23.73	21.65	22.94	22.07	23.33	23.73
	12H	21.74	22.98	22.17	23.36	23.79	21.74	22.98	22.17	23.36	23.79
4H	2H	19.24	20.70	19.64	21.04	21.42	19.24	20.70	19.64	21.04	21.42
	3H	21.26	22.48	21.67	22.88	23.28	21.26	22.48	21.67	22.88	23.28
	4H	22.04	23.15	22.47	23.56	23.99	22.04	23.15	22.47	23.56	23.99
	6H	22.62	23.59	23.07	24.03	24.48	22.62	23.59	23.07	24.03	24.48
	8H	22.80	23.71	23.26	24.16	24.62	22.80	23.71	23.26	24.16	24.62
	12H	22.93	23.75	23.41	24.23	24.69	22.93	23.75	23.41	24.23	24.69
8H	4H	22.35	23.26	22.80	23.70	24.16	22.35	23.26	22.80	23.70	24.16
	6H	23.04	23.80	23.53	24.29	24.76	23.04	23.80	23.53	24.29	24.76
	8H	23.29	23.97	23.80	24.48	24.96	23.29	23.97	23.80	24.48	24.96
	12H	23.48	24.09	23.99	24.58	25.13	23.48	24.09	23.99	24.58	25.13
12H	4H	22.38	23.20	22.86	23.67	24.14	22.38	23.20	22.86	23.67	24.14
	6H	23.09	23.78	23.60	24.28	24.76	23.09	23.78	23.60	24.28	24.76
	8H	23.40	24.00	23.90	24.49	25.05	23.40	24.00	23.90	24.49	25.05