

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: P866989

Luminaire Tested: PRLX-2002-L-930-117L-L-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-L-930-117L-L-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

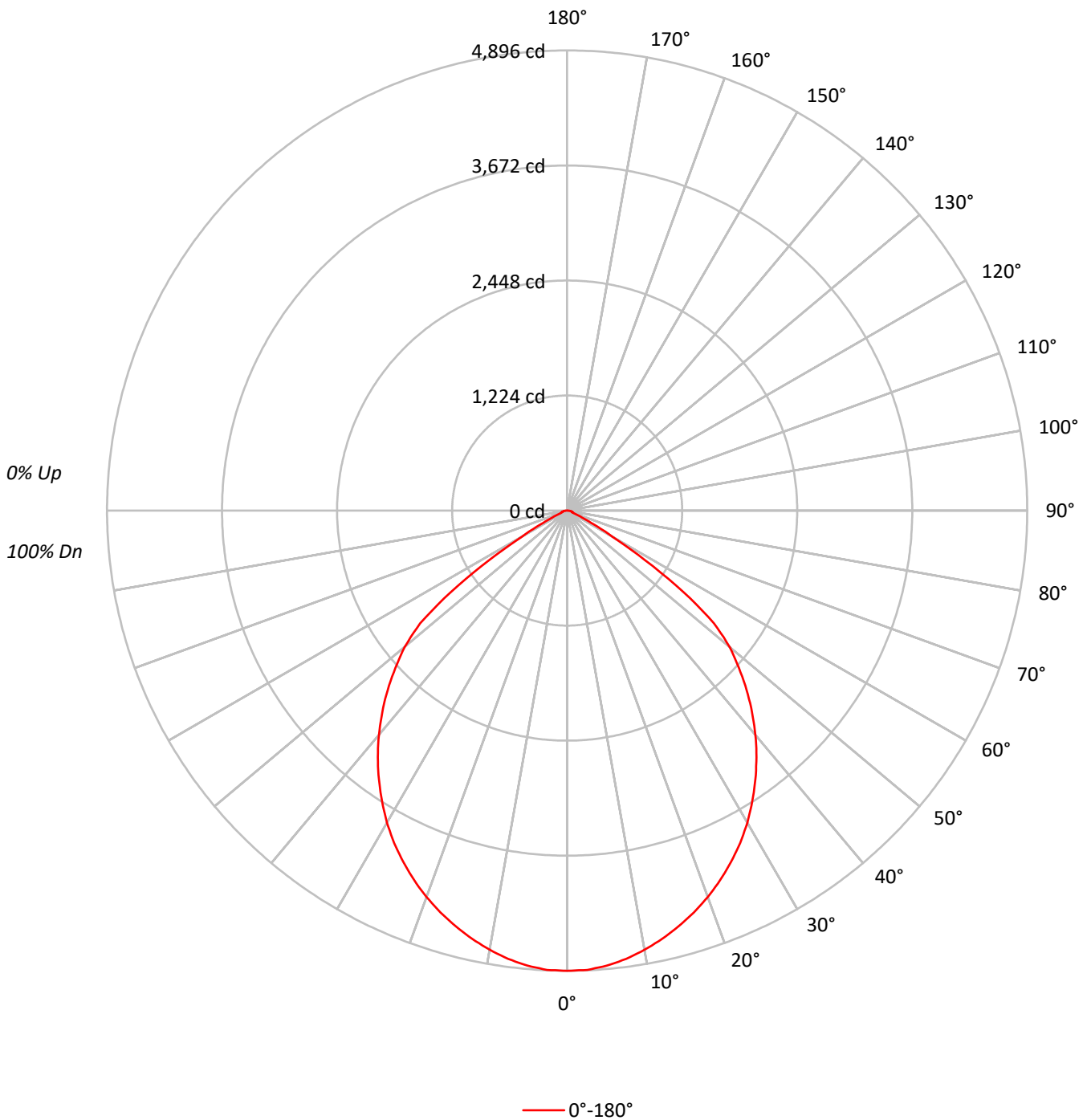
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9506.6 lumens  
Efficiency: N/A  
Efficacy: 99.9 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	92	90
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	77	73		78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58		67	62	57		65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51		61	56	51		60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46		56	50	46		55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42		52	46	42		51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47	42	38	36
10	59	47	40	35	58	46	39	35	46	39	35		45	39	35		44	38	34	33

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

	0°
0°	24158
5°	24071
10°	23769
15°	23395
20°	22974
25°	22461
30°	21842
35°	21036
40°	20075
45°	18853
50°	17323
55°	13028
60°	5485
65°	2022
70°	930
75°	1018
80°	1173
85°	1370

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18853 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	460.2	4.8
10°-20°	1291.0	13.6
20°-30°	1899.1	20.0
30°-40°	2181.1	22.9
40°-50°	2077.8	21.9
50°-60°	1301.2	13.7
60°-70°	215.4	2.3
70°-80°	56.2	0.6
80°-90°	24.5	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°	3650.3	38.4
0°-40°	5831.5	61.3
0°-60°	9210.4	96.9
0°-90°	9506.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9506.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4896	
5°	4860	460
15°	4580	1291
25°	4126	1899
35°	3492	2181
45°	2702	2078
55°	1515	1301
65°	173	215
75°	53	56
85°	24	25
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4896.4
2.5°	4891.4
5°	4860.2
7.5°	4810.8
10°	4744.3
12.5°	4668.8
15°	4580.2
17.5°	4483.5
20°	4375.7
22.5°	4255.9
25°	4126.0
27.5°	3988.0
30°	3833.9
32.5°	3666.8
35°	3492.5
37.5°	3309.3
40°	3116.9
42.5°	2912.5
45°	2702.0
47.5°	2477.4
50°	2256.9
52.5°	1970.8
55°	1514.6
57.5°	978.9
60°	555.9
62.5°	315.2
65°	173.2
67.5°	81.6
70°	64.5
72.5°	59.4
75°	53.4
77.5°	47.3
80°	41.3
82.5°	33.2
85°	24.2
87.5°	12.1
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	18.28	19.68	18.65	19.99	20.30	18.28	19.68	18.65	19.99	20.30
	3H	18.20	19.42	18.58	19.75	20.12	18.20	19.42	18.58	19.75	20.12
	4H	18.16	19.29	18.56	19.64	20.03	18.16	19.29	18.56	19.64	20.03
	6H	18.12	19.16	18.53	19.53	19.92	18.12	19.16	18.53	19.53	19.92
	8H	18.09	19.08	18.52	19.47	19.88	18.09	19.08	18.52	19.47	19.88
	12H	18.07	19.02	18.50	19.40	19.83	18.07	19.02	18.50	19.40	19.83
4H	2H	18.15	19.29	18.55	19.64	20.02	18.15	19.29	18.55	19.64	20.02
	3H	18.09	19.00	18.50	19.41	19.81	18.09	19.00	18.50	19.41	19.81
	4H	18.04	18.86	18.48	19.28	19.72	18.04	18.86	18.48	19.28	19.72
	6H	18.02	18.73	18.49	19.17	19.64	18.02	18.73	18.49	19.17	19.64
	8H	18.00	18.66	18.47	19.11	19.58	18.00	18.66	18.47	19.11	19.58
	12H	17.99	18.57	18.48	19.06	19.53	17.99	18.57	18.48	19.06	19.53
8H	4H	17.93	18.59	18.40	19.04	19.51	17.93	18.59	18.40	19.04	19.51
	6H	17.91	18.46	18.42	18.95	19.43	17.91	18.46	18.42	18.95	19.43
	8H	17.90	18.39	18.42	18.91	19.40	17.90	18.39	18.42	18.91	19.40
	12H	17.91	18.35	18.42	18.84	19.41	17.91	18.35	18.42	18.84	19.41
12H	4H	17.89	18.48	18.38	18.96	19.43	17.89	18.48	18.38	18.96	19.43
	6H	17.86	18.35	18.38	18.87	19.36	17.86	18.35	18.38	18.87	19.36
	8H	17.87	18.32	18.39	18.81	19.38	17.87	18.32	18.39	18.81	19.38