

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: P866997

Luminaire Tested: PRLX-2002-L-930-133L-L-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866997  
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-930-133L-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 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

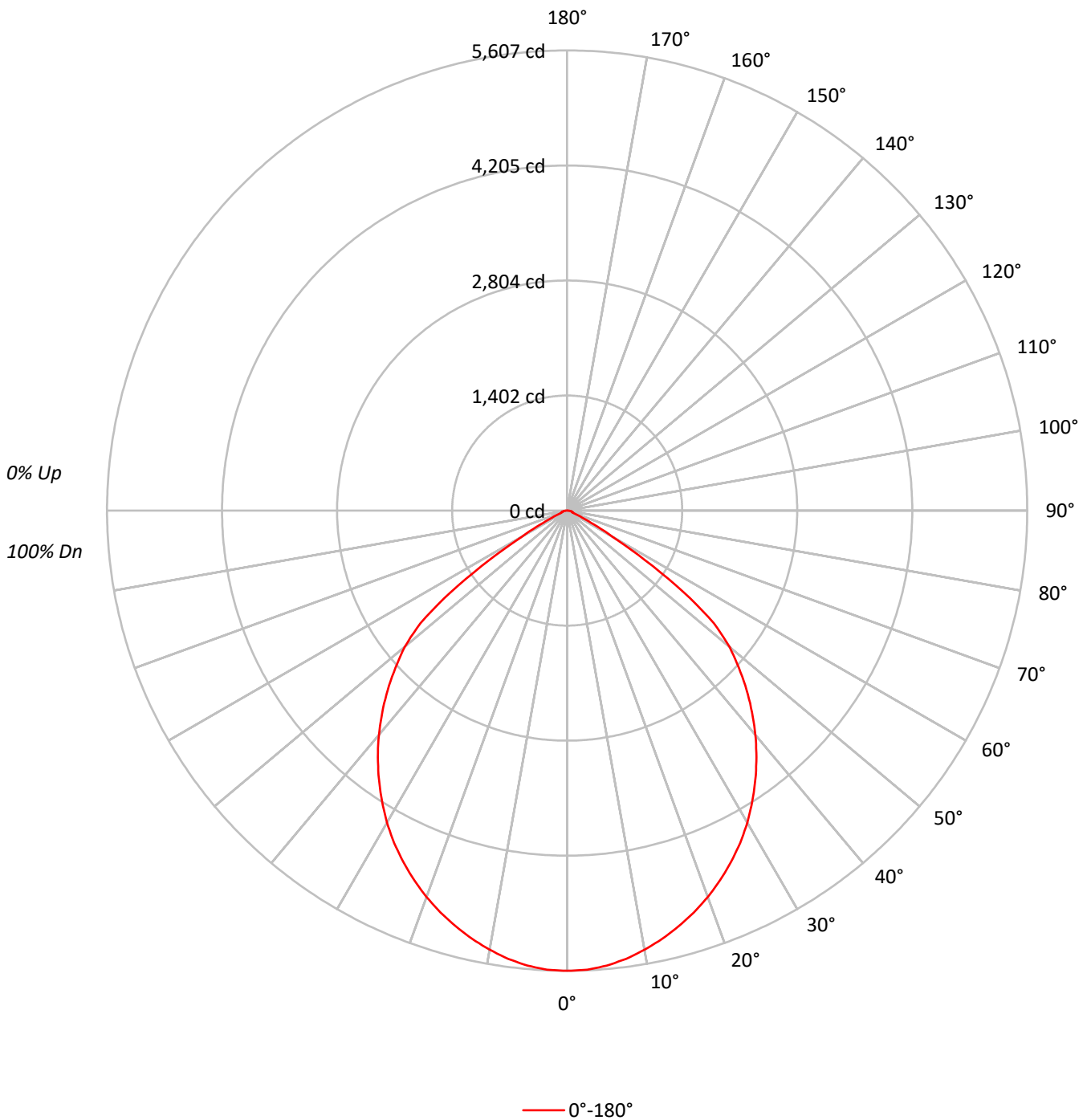
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10885.8 lumens  
Efficiency: N/A  
Efficacy: 97.4 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): 111.8  
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°	27663
5°	27563
10°	27217
15°	26789
20°	26308
25°	25720
30°	25011
35°	24088
40°	22987
45°	21588
50°	19836
55°	14919
60°	6282
65°	2315
70°	1065
75°	1165
80°	1344
85°	1568

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21588 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.0	4.8
10°-20°	1478.3	13.6
20°-30°	2174.6	20.0
30°-40°	2497.6	22.9
40°-50°	2379.2	21.9
50°-60°	1490.0	13.7
60°-70°	246.6	2.3
70°-80°	64.4	0.6
80°-90°	28.1	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°	4179.9	38.4
0°-40°	6677.5	61.3
0°-60°	10546.8	96.9
0°-90°	10885.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10885.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5607	
5°	5565	527
15°	5245	1478
25°	4725	2175
35°	3999	2498
45°	3094	2379
55°	1734	1490
65°	198	247
75°	61	64
85°	28	28
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5606.8
2.5°	5601.1
5°	5565.3
7.5°	5508.8
10°	5432.7
12.5°	5346.2
15°	5244.7
17.5°	5134.0
20°	5010.6
22.5°	4873.4
25°	4724.6
27.5°	4566.6
30°	4390.2
32.5°	4198.8
35°	3999.3
37.5°	3789.4
40°	3569.1
42.5°	3335.0
45°	3094.0
47.5°	2836.9
50°	2584.3
52.5°	2256.8
55°	1734.4
57.5°	1120.9
60°	636.6
62.5°	360.9
65°	198.3
67.5°	93.4
70°	73.8
72.5°	68.0
75°	61.1
77.5°	54.2
80°	47.3
82.5°	38.1
85°	27.7
87.5°	13.8
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	18.75	20.15	19.12	20.46	20.78	18.75	20.15	19.12	20.46	20.78
	3H	18.67	19.90	19.05	20.22	20.59	18.67	19.90	19.05	20.22	20.59
	4H	18.63	19.76	19.03	20.12	20.50	18.63	19.76	19.03	20.12	20.50
	6H	18.59	19.63	19.00	20.00	20.39	18.59	19.63	19.00	20.00	20.39
	8H	18.56	19.55	18.99	19.94	20.35	18.56	19.55	18.99	19.94	20.35
	12H	18.54	19.49	18.97	19.87	20.30	18.54	19.49	18.97	19.87	20.30
4H	2H	18.62	19.76	19.02	20.11	20.49	18.62	19.76	19.02	20.11	20.49
	3H	18.56	19.47	18.97	19.88	20.28	18.56	19.47	18.97	19.88	20.28
	4H	18.51	19.33	18.95	19.75	20.19	18.51	19.33	18.95	19.75	20.19
	6H	18.50	19.20	18.96	19.64	20.11	18.50	19.20	18.96	19.64	20.11
	8H	18.47	19.13	18.94	19.58	20.05	18.47	19.13	18.94	19.58	20.05
	12H	18.46	19.04	18.95	19.53	20.00	18.46	19.04	18.95	19.53	20.00
8H	4H	18.41	19.06	18.87	19.51	19.98	18.41	19.06	18.87	19.51	19.98
	6H	18.38	18.93	18.89	19.42	19.90	18.38	18.93	18.89	19.42	19.90
	8H	18.37	18.86	18.89	19.38	19.87	18.37	18.86	18.89	19.38	19.87
	12H	18.38	18.82	18.89	19.32	19.88	18.38	18.82	18.89	19.32	19.88
12H	4H	18.36	18.95	18.85	19.43	19.90	18.36	18.95	18.85	19.43	19.90
	6H	18.33	18.82	18.85	19.34	19.83	18.33	18.82	18.85	19.34	19.83
	8H	18.35	18.79	18.86	19.28	19.85	18.35	18.79	18.86	19.28	19.85