

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: P866469

Luminaire Tested: PRLX-2004-M-930-07L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-43)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2004-M-930-07L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
BELL WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

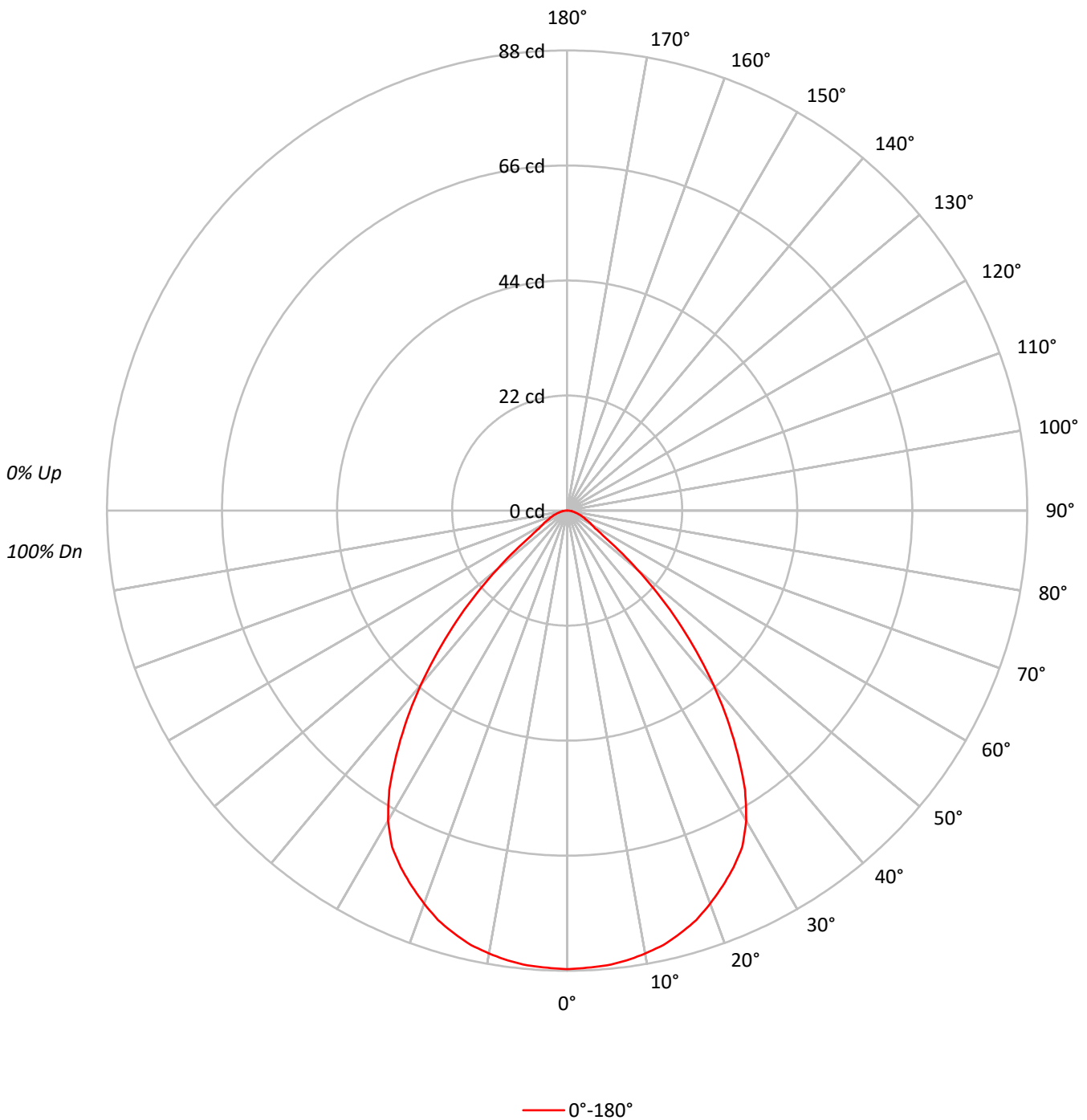
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 140.0 lumens  
Efficiency: N/A  
Efficacy: 17.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 8.2  
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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	74	70	79	73	69	76	72	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38

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

	0°
0°	698
5°	697
10°	695
15°	689
20°	677
25°	661
30°	629
35°	553
40°	453
45°	336
50°	217
55°	117
60°	86
65°	73
70°	65
75°	58
80°	50
85°	55

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 336 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.3	5.9
10°-20°	23.6	16.8
20°-30°	34.5	24.7
30°-40°	35.3	25.2
40°-50°	23.1	16.5
50°-60°	8.6	6.1
60°-70°	4.0	2.8
70°-80°	2.0	1.5
80°-90°	0.7	0.5
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°	66.4	47.4
0°-40°	101.7	72.6
0°-60°	133.3	95.2
0°-90°	140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	88	
5°	87	8
15°	84	24
25°	75	35
35°	57	35
45°	30	23
55°	8	9
65°	4	4
75°	2	2
85°	1	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	87.7
2.5°	87.5
5°	87.3
7.5°	86.8
10°	86.0
12.5°	85.1
15°	83.7
17.5°	82.1
20°	80.0
22.5°	77.7
25°	75.3
27.5°	72.5
30°	68.5
32.5°	63.3
35°	56.9
37.5°	50.3
40°	43.6
42.5°	36.6
45°	29.9
47.5°	23.5
50°	17.5
52.5°	12.4
55°	8.4
57.5°	6.4
60°	5.4
62.5°	4.7
65°	3.9
67.5°	3.4
70°	2.8
72.5°	2.4
75°	1.9
77.5°	1.5
80°	1.1
82.5°	0.9
85°	0.6
87.5°	0.4
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	0.00	1.22	0.33	1.54	1.85	0.00	1.22	0.33	1.54	1.85
	3H	1.16	2.27	1.54	2.60	2.97	1.16	2.27	1.54	2.60	2.97
	4H	1.60	2.63	2.00	2.98	3.37	1.60	2.63	2.00	2.98	3.37
	6H	1.90	2.84	2.31	3.22	3.61	1.90	2.84	2.31	3.22	3.61
	8H	2.01	2.91	2.44	3.30	3.71	2.01	2.91	2.44	3.30	3.71
	12H	2.10	2.96	2.54	3.34	3.77	2.10	2.96	2.54	3.34	3.77
4H	2H	0.32	1.35	0.72	1.71	2.09	0.32	1.35	0.72	1.71	2.09
	3H	1.73	2.57	2.14	2.98	3.38	1.73	2.57	2.14	2.98	3.38
	4H	2.28	3.03	2.72	3.45	3.90	2.28	3.03	2.72	3.45	3.90
	6H	2.69	3.34	3.16	3.79	4.26	2.69	3.34	3.16	3.79	4.26
	8H	2.85	3.46	3.33	3.91	4.38	2.85	3.46	3.33	3.91	4.38
	12H	3.00	3.53	3.48	4.01	4.49	3.00	3.53	3.48	4.01	4.49
8H	4H	2.44	3.05	2.91	3.50	3.97	2.44	3.05	2.91	3.50	3.97
	6H	2.96	3.45	3.46	3.95	4.43	2.96	3.45	3.46	3.95	4.43
	8H	3.20	3.65	3.73	4.16	4.66	3.20	3.65	3.73	4.16	4.66
	12H	3.44	3.83	3.95	4.32	4.90	3.44	3.83	3.95	4.32	4.90
12H	4H	2.44	2.97	2.92	3.45	3.93	2.44	2.97	2.92	3.45	3.93
	6H	2.98	3.42	3.51	3.94	4.43	2.98	3.42	3.51	3.94	4.43
	8H	3.28	3.68	3.80	4.17	4.74	3.28	3.68	3.80	4.17	4.74