

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: P865653

Luminaire Tested: PRLX-2002-S-935-05L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-S-935-05L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

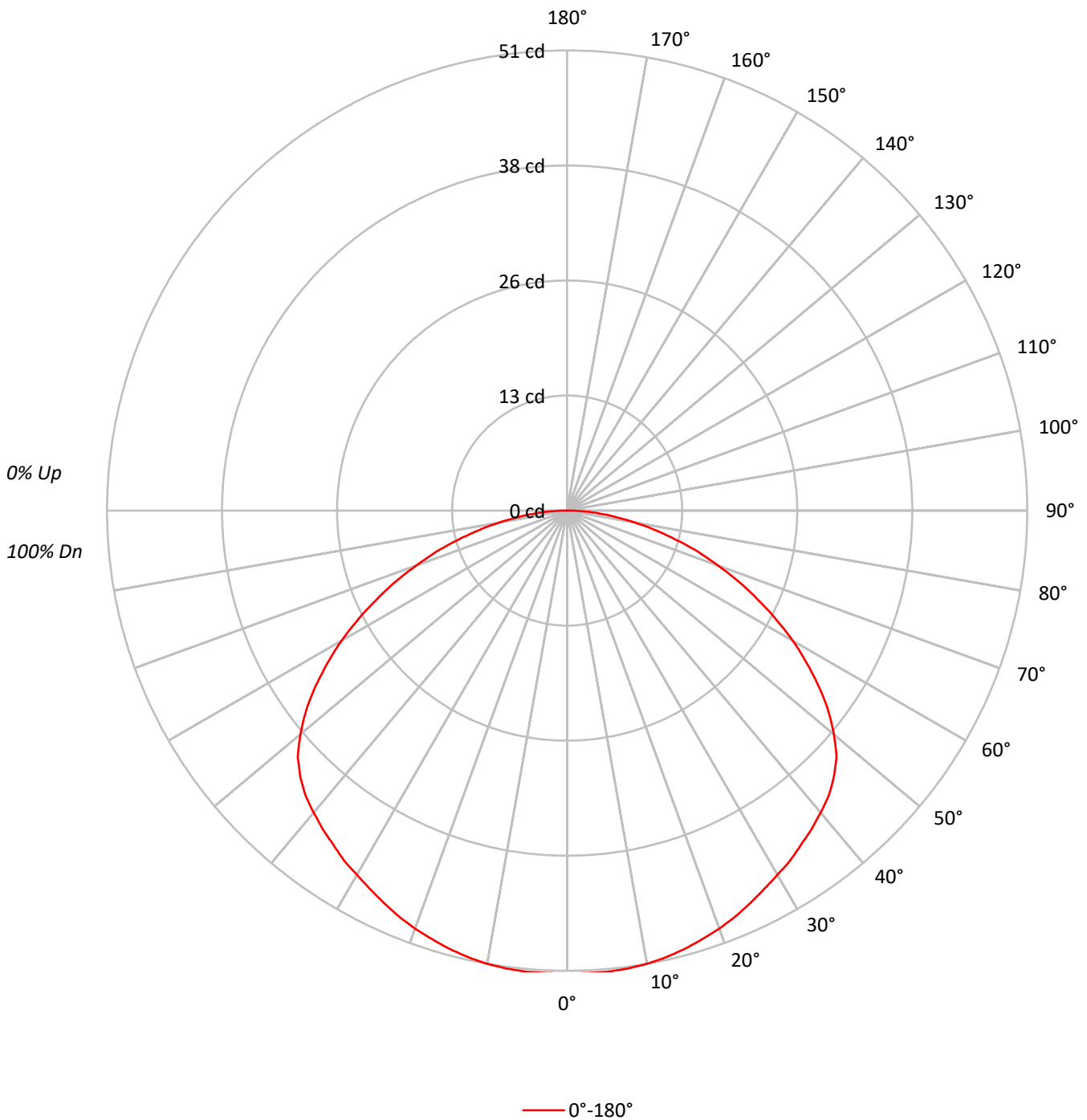
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 172.5 lumens  
Efficiency: N/A  
Efficacy: 27.8 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.2  
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: 0.333 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	69	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	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	35	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	29	24	34	28	24	22

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

	0°
0°	964
5°	967
10°	973
15°	978
20°	985
25°	995
30°	1011
35°	1036
40°	1072
45°	1110
50°	1128
55°	1117
60°	1086
65°	1036
70°	978
75°	907
80°	822
85°	733

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 1128 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.9	2.8
10°-20°	14.2	8.2
20°-30°	22.2	12.9
30°-40°	28.4	16.4
40°-50°	32.2	18.6
50°-60°	30.4	17.6
60°-70°	23.1	13.4
70°-80°	13.3	7.7
80°-90°	3.9	2.3
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°	41.3	23.9
0°-40°	69.6	40.4
0°-60°	132.2	76.6
0°-90°	172.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	172.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	51	
5°	51	5
15°	50	14
25°	48	22
35°	45	28
45°	42	32
55°	34	30
65°	23	23
75°	12	13
85°	3	4
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	51.3
2.5°	51.3
5°	51.3
7.5°	51.2
10°	51.0
12.5°	50.7
15°	50.3
17.5°	49.8
20°	49.3
22.5°	48.7
25°	48.0
27.5°	47.3
30°	46.6
32.5°	46.0
35°	45.2
37.5°	44.5
40°	43.7
42.5°	42.9
45°	41.8
47.5°	40.5
50°	38.6
52.5°	36.5
55°	34.1
57.5°	31.5
60°	28.9
62.5°	26.1
65°	23.3
67.5°	20.6
70°	17.8
72.5°	15.2
75°	12.5
77.5°	10.0
80°	7.6
82.5°	5.4
85°	3.4
87.5°	1.8
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	12.78	14.47	13.14	14.79	15.10	12.78	14.47	13.14	14.79	15.10
	3H	14.58	16.11	14.95	16.44	16.80	14.58	16.11	14.95	16.44	16.80
	4H	15.25	16.70	15.65	17.05	17.42	15.25	16.70	15.65	17.05	17.42
	6H	15.75	17.10	16.16	17.46	17.85	15.75	17.10	16.16	17.46	17.85
	8H	15.92	17.21	16.34	17.60	17.99	15.92	17.21	16.34	17.60	17.99
	12H	16.04	17.27	16.47	17.66	18.08	16.04	17.27	16.47	17.66	18.08
4H	2H	13.42	14.87	13.81	15.21	15.59	13.42	14.87	13.81	15.21	15.59
	3H	15.44	16.66	15.85	17.05	17.45	15.44	16.66	15.85	17.05	17.45
	4H	16.24	17.35	16.67	17.76	18.19	16.24	17.35	16.67	17.76	18.19
	6H	16.87	17.84	17.33	18.28	18.74	16.87	17.84	17.33	18.28	18.74
	8H	17.09	18.00	17.55	18.44	18.91	17.09	18.00	17.55	18.44	18.91
	12H	17.26	18.08	17.74	18.55	19.02	17.26	18.08	17.74	18.55	19.02
8H	4H	16.56	17.47	17.02	17.91	18.38	16.56	17.47	17.02	17.91	18.38
	6H	17.32	18.08	17.81	18.57	19.04	17.32	18.08	17.81	18.57	19.04
	8H	17.62	18.30	18.12	18.80	19.28	17.62	18.30	18.12	18.80	19.28
	12H	17.86	18.46	18.37	18.95	19.51	17.86	18.46	18.37	18.95	19.51
12H	4H	16.60	17.42	17.08	17.90	18.36	16.60	17.42	17.08	17.90	18.36
	6H	17.38	18.07	17.89	18.57	19.05	17.38	18.07	17.89	18.57	19.05
	8H	17.74	18.34	18.24	18.83	19.39	17.74	18.34	18.24	18.83	19.39