

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: P865975

Luminaire Tested: PRLX-2001-M-930-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-M-930-25L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

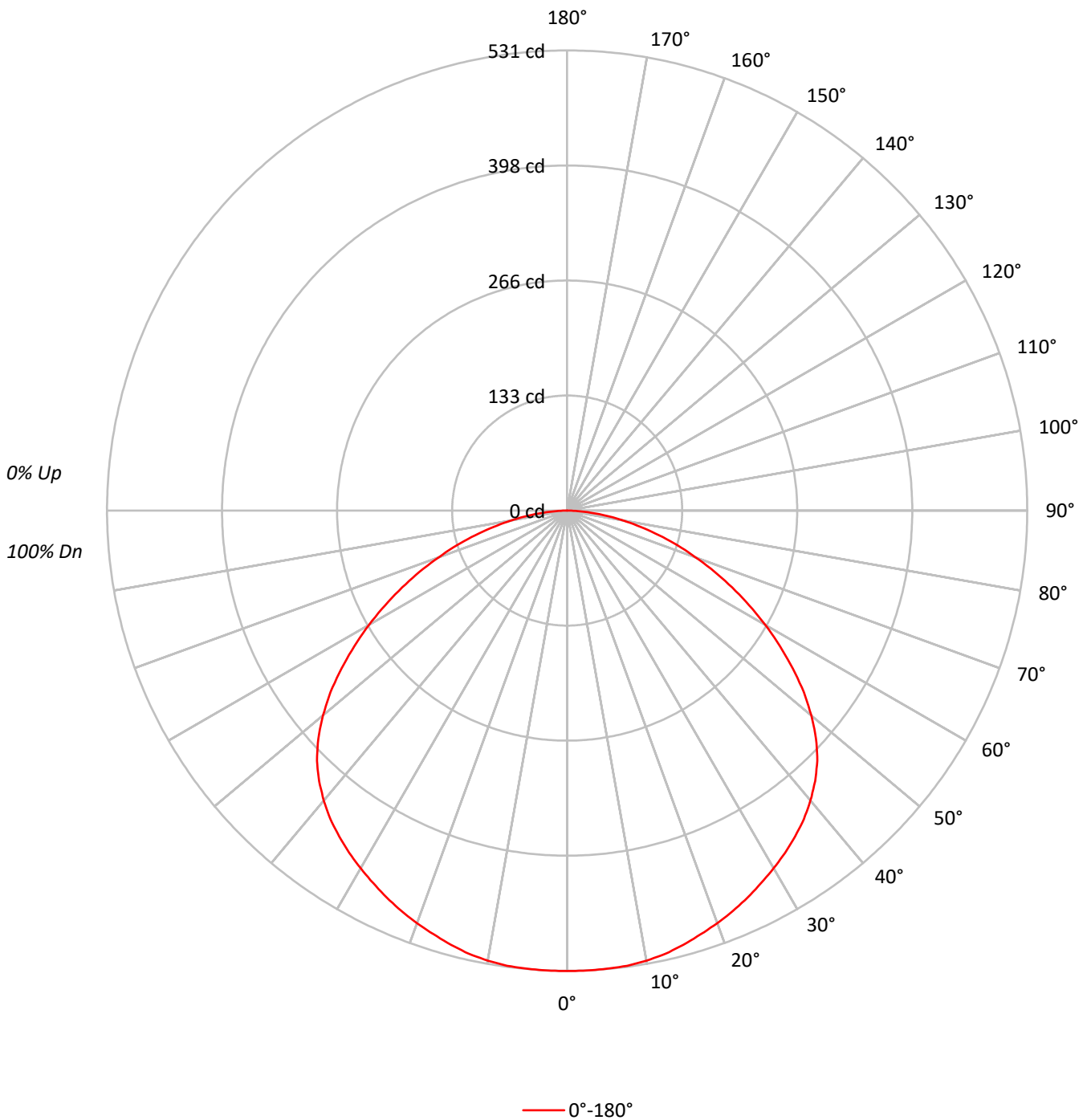
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1665.5 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.7  
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

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

	0°
0°	4509
5°	4520
10°	4544
15°	4556
20°	4576
25°	4613
30°	4671
35°	4753
40°	4839
45°	4900
50°	4854
55°	4702
60°	4481
65°	4219
70°	3910
75°	3597
80°	3186
85°	2590

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4900 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.6	3.0
10°-20°	146.5	8.8
20°-30°	227.4	13.7
30°-40°	287.3	17.3
40°-50°	313.7	18.8
50°-60°	283.8	17.0
60°-70°	208.2	12.5
70°-80°	116.3	7.0
80°-90°	31.7	1.9
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°	424.6	25.5
0°-40°	711.9	42.7
0°-60°	1309.3	78.6
0°-90°	1665.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1665.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	531	
5°	531	51
15°	519	147
25°	493	227
35°	459	287
45°	408	314
55°	318	284
65°	210	208
75°	110	116
85°	27	32
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	531.3
2.5°	531.3
5°	530.6
7.5°	529.9
10°	527.3
12.5°	524.0
15°	518.6
17.5°	512.6
20°	506.7
22.5°	500.0
25°	492.7
27.5°	484.7
30°	476.7
32.5°	468.1
35°	458.8
37.5°	448.8
40°	436.8
42.5°	423.6
45°	408.3
47.5°	389.6
50°	367.7
52.5°	344.4
55°	317.8
57.5°	291.2
60°	264.0
62.5°	236.7
65°	210.1
67.5°	184.2
70°	157.6
72.5°	133.6
75°	109.7
77.5°	86.4
80°	65.2
82.5°	45.2
85°	26.6
87.5°	12.0
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	17.63	19.29	17.99	19.61	19.92	17.63	19.29	17.99	19.61	19.92
	3H	19.32	20.83	19.70	21.15	21.51	19.32	20.83	19.70	21.15	21.51
	4H	19.95	21.37	20.35	21.71	22.09	19.95	21.37	20.35	21.71	22.09
	6H	20.40	21.72	20.81	22.08	22.47	20.40	21.72	20.81	22.08	22.47
	8H	20.55	21.80	20.97	22.19	22.59	20.55	21.80	20.97	22.19	22.59
	12H	20.64	21.84	21.07	22.22	22.65	20.64	21.84	21.07	22.22	22.65
4H	2H	18.23	19.65	18.63	20.00	20.37	18.23	19.65	18.63	20.00	20.37
	3H	20.14	21.33	20.55	21.73	22.13	20.14	21.33	20.55	21.73	22.13
	4H	20.90	21.97	21.33	22.39	22.82	20.90	21.97	21.33	22.39	22.82
	6H	21.48	22.42	21.93	22.86	23.31	21.48	22.42	21.93	22.86	23.31
	8H	21.67	22.55	22.13	22.99	23.46	21.67	22.55	22.13	22.99	23.46
	12H	21.80	22.59	22.28	23.07	23.54	21.80	22.59	22.28	23.07	23.54
8H	4H	21.20	22.08	21.65	22.52	22.98	21.20	22.08	21.65	22.52	22.98
	6H	21.89	22.63	22.38	23.11	23.59	21.89	22.63	22.38	23.11	23.59
	8H	22.15	22.81	22.66	23.31	23.80	22.15	22.81	22.66	23.31	23.80
	12H	22.35	22.93	22.86	23.42	23.98	22.35	22.93	22.86	23.42	23.98
12H	4H	21.23	22.02	21.71	22.49	22.96	21.23	22.02	21.71	22.49	22.96
	6H	21.94	22.60	22.45	23.11	23.59	21.94	22.60	22.45	23.11	23.59
	8H	22.26	22.84	22.76	23.33	23.89	22.26	22.84	22.76	23.33	23.89