

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: P866015

Luminaire Tested: PRLX-2001-M-930-75L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866015  
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-930-75L-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 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

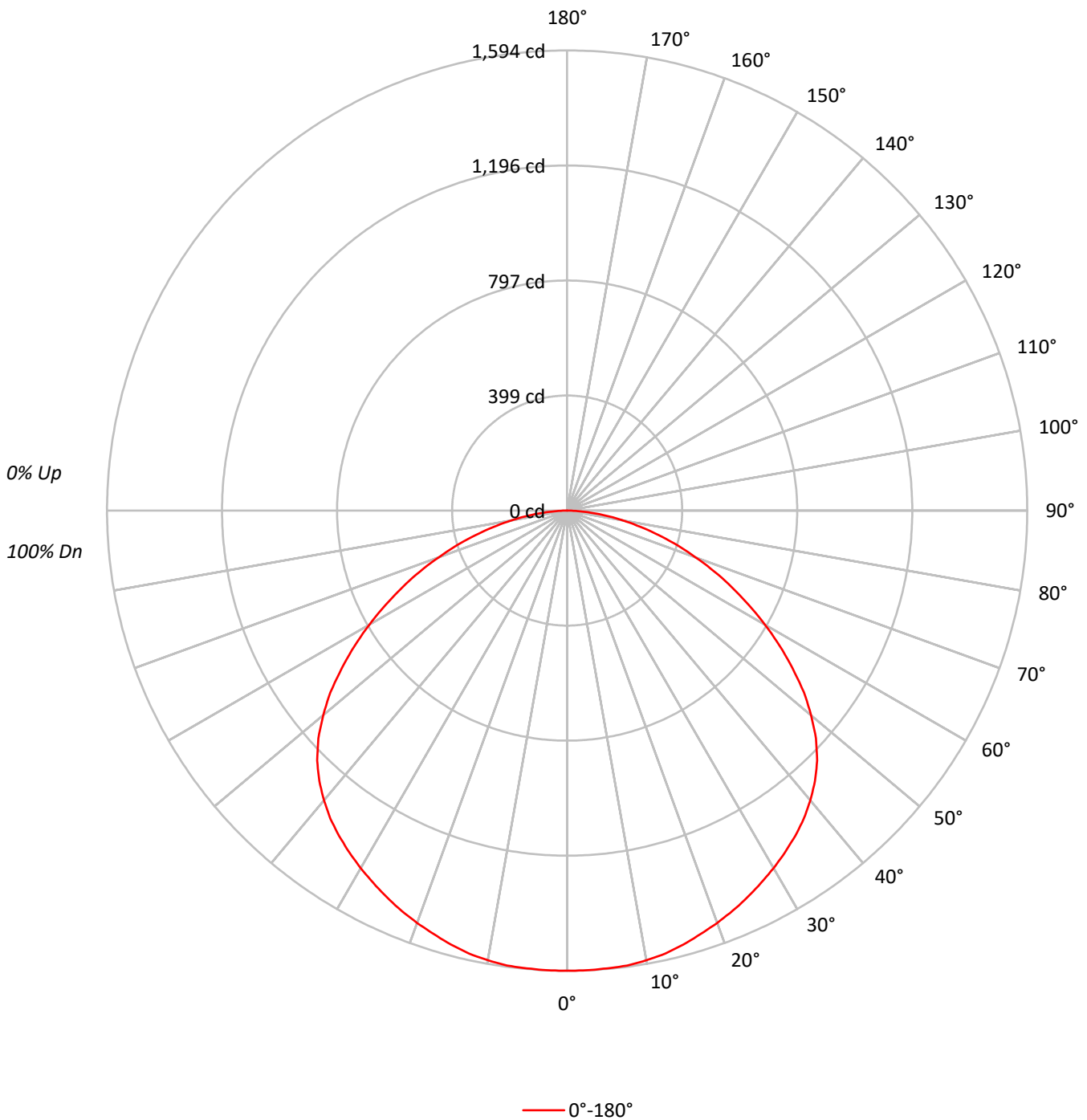
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4996.5 lumens  
Efficiency: N/A  
Efficacy: 71.7 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): 69.7  
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°	13525
5°	13560
10°	13630
15°	13669
20°	13727
25°	13840
30°	14014
35°	14259
40°	14517
45°	14699
50°	14563
55°	14107
60°	13440
65°	12656
70°	11731
75°	10790
80°	9554
85°	7770

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14699 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.7	3.0
10°-20°	439.6	8.8
20°-30°	682.4	13.7
30°-40°	861.9	17.3
40°-50°	940.9	18.8
50°-60°	851.4	17.0
60°-70°	624.6	12.5
70°-80°	348.9	7.0
80°-90°	94.9	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°	1273.7	25.5
0°-40°	2135.6	42.7
0°-60°	3928.0	78.6
0°-90°	4996.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4996.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1594	
5°	1592	152
15°	1556	440
25°	1478	682
35°	1376	862
45°	1225	941
55°	954	851
65°	630	625
75°	329	349
85°	80	95
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1593.8
2.5°	1593.8
5°	1591.8
7.5°	1589.8
10°	1581.8
12.5°	1571.9
15°	1555.9
17.5°	1537.9
20°	1520.0
22.5°	1500.0
25°	1478.1
27.5°	1454.2
30°	1430.2
32.5°	1404.3
35°	1376.4
37.5°	1346.5
40°	1310.5
42.5°	1270.7
45°	1224.8
47.5°	1168.9
50°	1103.1
52.5°	1033.3
55°	953.5
57.5°	873.7
60°	791.9
62.5°	710.1
65°	630.3
67.5°	552.5
70°	472.8
72.5°	400.9
75°	329.1
77.5°	259.3
80°	195.5
82.5°	135.6
85°	79.8
87.5°	35.9
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	21.45	23.11	21.81	23.43	23.74	21.45	23.11	21.81	23.43	23.74
	3H	23.14	24.64	23.51	24.97	25.33	23.14	24.64	23.51	24.97	25.33
	4H	23.77	25.18	24.16	25.53	25.91	23.77	25.18	24.16	25.53	25.91
	6H	24.22	25.53	24.63	25.90	26.29	24.22	25.53	24.63	25.90	26.29
	8H	24.36	25.62	24.79	26.01	26.41	24.36	25.62	24.79	26.01	26.41
	12H	24.45	25.66	24.88	26.04	26.47	24.45	25.66	24.88	26.04	26.47
4H	2H	22.05	23.47	22.45	23.82	24.19	22.05	23.47	22.45	23.82	24.19
	3H	23.96	25.15	24.37	25.55	25.95	23.96	25.15	24.37	25.55	25.95
	4H	24.72	25.79	25.15	26.20	26.64	24.72	25.79	25.15	26.20	26.64
	6H	25.30	26.24	25.75	26.68	27.13	25.30	26.24	25.75	26.68	27.13
	8H	25.49	26.37	25.95	26.81	27.27	25.49	26.37	25.95	26.81	27.27
	12H	25.62	26.41	26.10	26.89	27.36	25.62	26.41	26.10	26.89	27.36
8H	4H	25.01	25.89	25.47	26.34	26.80	25.01	25.89	25.47	26.34	26.80
	6H	25.71	26.44	26.20	26.93	27.40	25.71	26.44	26.20	26.93	27.40
	8H	25.97	26.63	26.48	27.13	27.62	25.97	26.63	26.48	27.13	27.62
	12H	26.17	26.75	26.67	27.24	27.80	26.17	26.75	26.67	27.24	27.80
12H	4H	25.04	25.84	25.52	26.31	26.78	25.04	25.84	25.52	26.31	26.78
	6H	25.76	26.42	26.27	26.93	27.41	25.76	26.42	26.27	26.93	27.41
	8H	26.07	26.66	26.58	27.15	27.71	26.07	26.66	26.58	27.15	27.71