

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: P866013

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)  
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-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

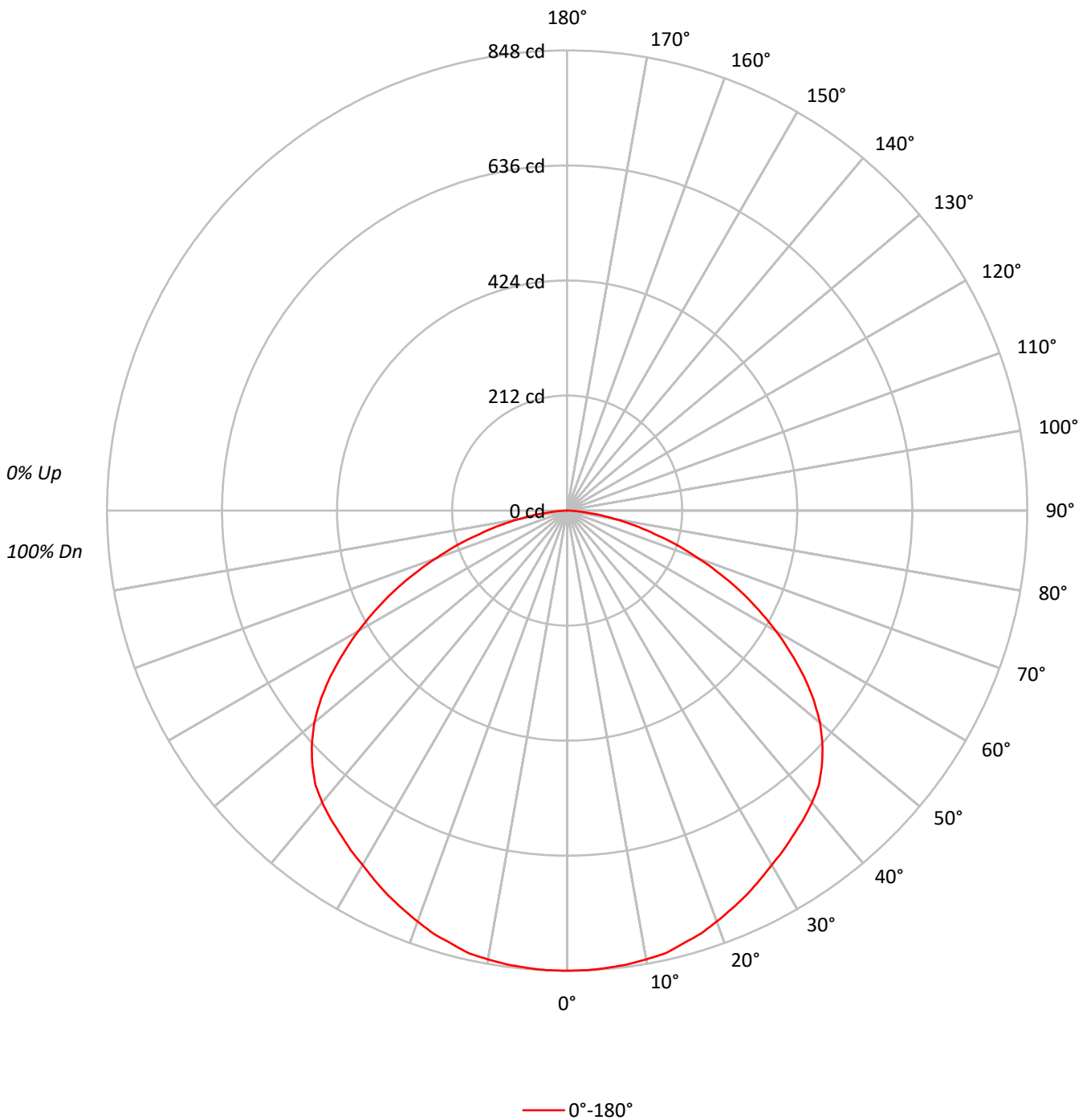
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2682.2 lumens  
Efficiency: N/A  
Efficacy: 38.5 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49  
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	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62		72	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	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

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

	0°
0°	7194
5°	7205
10°	7236
15°	7255
20°	7278
25°	7321
30°	7388
35°	7543
40°	7778
45°	7971
50°	8032
55°	7880
60°	7549
65°	7090
70°	6384
75°	5495
80°	4388
85°	2717

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 8032 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.6	3.0
10°-20°	233.5	8.7
20°-30°	360.8	13.5
30°-40°	457.0	17.0
40°-50°	510.9	19.0
50°-60°	474.2	17.7
60°-70°	348.3	13.0
70°-80°	179.8	6.7
80°-90°	37.2	1.4
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°	674.9	25.2
0°-40°	1131.9	42.2
0°-60°	2117.0	78.9
0°-90°	2682.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2682.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	848	
5°	846	81
15°	826	234
25°	782	361
35°	728	457
45°	664	511
55°	533	474
65°	353	348
75°	168	180
85°	28	37
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	847.8
2.5°	847.8
5°	845.8
7.5°	843.8
10°	839.8
12.5°	835.8
15°	825.8
17.5°	817.8
20°	805.9
22.5°	793.9
25°	781.9
27.5°	768.0
30°	754.0
32.5°	742.0
35°	728.1
37.5°	716.1
40°	702.1
42.5°	686.2
45°	664.2
47.5°	638.3
50°	608.4
52.5°	572.5
55°	532.6
57.5°	488.7
60°	444.8
62.5°	398.9
65°	353.1
67.5°	305.2
70°	257.3
72.5°	213.4
75°	167.6
77.5°	127.7
80°	89.8
82.5°	55.9
85°	27.9
87.5°	8.0
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	19.57	21.24	19.93	21.55	21.86	19.57	21.24	19.93	21.55	21.86
	3H	21.21	22.72	21.59	23.04	23.40	21.21	22.72	21.59	23.04	23.40
	4H	21.75	23.17	22.15	23.52	23.90	21.75	23.17	22.15	23.52	23.90
	6H	22.10	23.41	22.51	23.78	24.17	22.10	23.41	22.51	23.78	24.17
	8H	22.18	23.44	22.60	23.83	24.22	22.18	23.44	22.60	23.83	24.22
	12H	22.21	23.42	22.64	23.80	24.23	22.21	23.42	22.64	23.80	24.23
4H	2H	20.18	21.60	20.57	21.94	22.32	20.18	21.60	20.57	21.94	22.32
	3H	22.02	23.21	22.43	23.60	24.00	22.02	23.21	22.43	23.60	24.00
	4H	22.67	23.74	23.10	24.16	24.59	22.67	23.74	23.10	24.16	24.59
	6H	23.12	24.06	23.57	24.50	24.95	23.12	24.06	23.57	24.50	24.95
	8H	23.23	24.11	23.69	24.55	25.01	23.23	24.11	23.69	24.55	25.01
	12H	23.29	24.08	23.77	24.55	25.02	23.29	24.08	23.77	24.55	25.02
8H	4H	22.92	23.80	23.38	24.24	24.70	22.92	23.80	23.38	24.24	24.70
	6H	23.45	24.18	23.95	24.67	25.14	23.45	24.18	23.95	24.67	25.14
	8H	23.61	24.26	24.12	24.77	25.25	23.61	24.26	24.12	24.77	25.25
	12H	23.71	24.28	24.21	24.77	25.33	23.71	24.28	24.21	24.77	25.33
12H	4H	22.94	23.73	23.42	24.20	24.67	22.94	23.73	23.42	24.20	24.67
	6H	23.48	24.13	23.99	24.64	25.12	23.48	24.13	23.99	24.64	25.12
	8H	23.68	24.25	24.18	24.74	25.30	23.68	24.25	24.18	24.74	25.30