

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: P866012

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-930-75L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

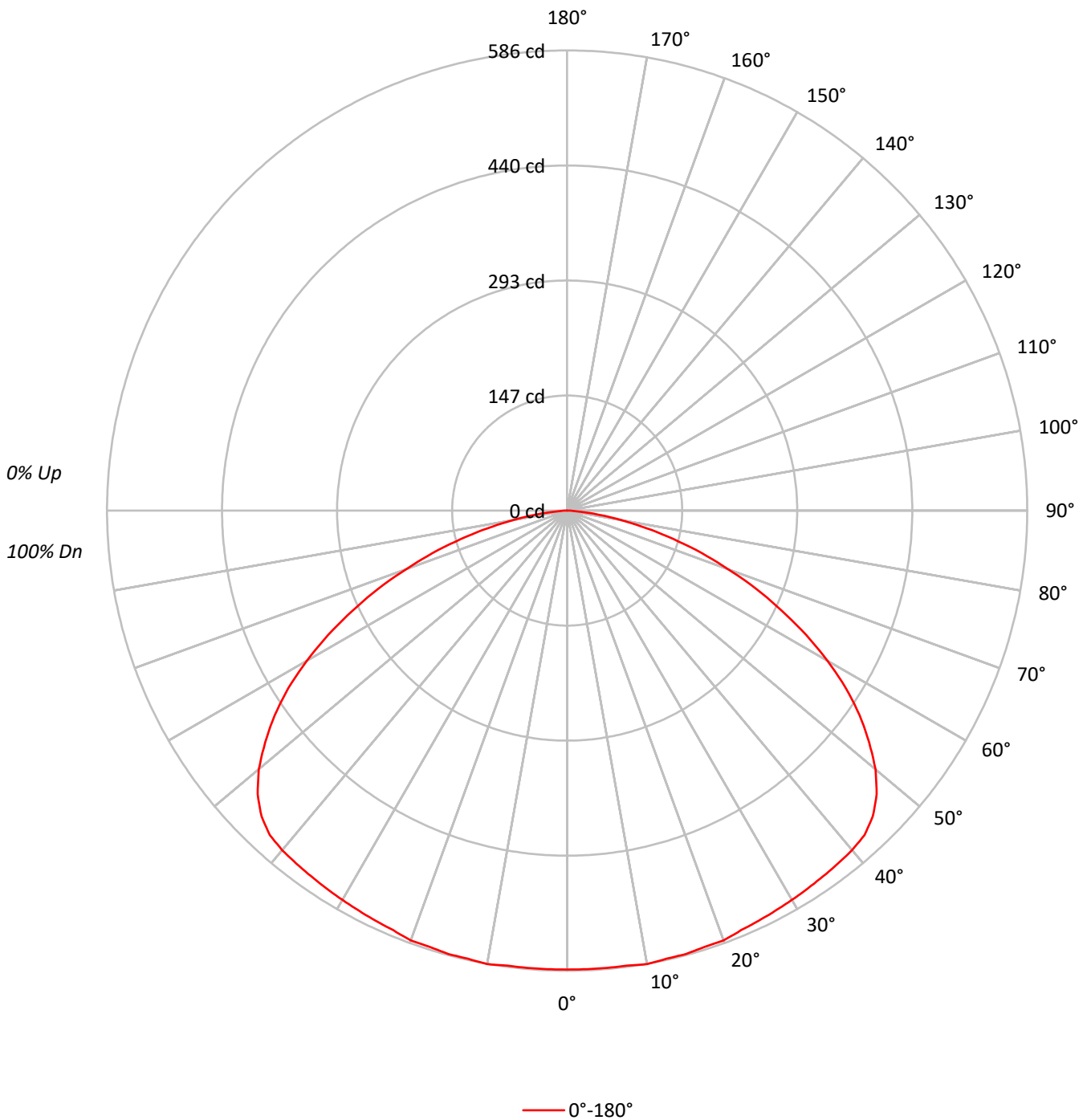
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2146.3 lumens  
Efficiency: N/A  
Efficacy: 30.8 lumens/watt  
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 69.7  
Input Voltage (V): 120  
Input Current (Ain): 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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

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

	0°
0°	4960
5°	4979
10°	5054
15°	5135
20°	5260
25°	5398
30°	5610
35°	5889
40°	6253
45°	6608
50°	6769
55°	6729
60°	6500
65°	6048
70°	5394
75°	4577
80°	3411
85°	1753

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 6769 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.8	2.6
10°-20°	165.5	7.7
20°-30°	266.8	12.4
30°-40°	357.0	16.6
40°-50°	422.4	19.7
50°-60°	404.5	18.8
60°-70°	298.2	13.9
70°-80°	149.2	7.0
80°-90°	26.9	1.3
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°	488.2	22.7
0°-40°	845.2	39.4
0°-60°	1672.0	77.9
0°-90°	2146.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2146.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	584	
5°	584	56
15°	584	165
25°	576	267
35°	568	357
45°	551	422
55°	455	404
65°	301	298
75°	140	149
85°	18	27
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	584.5
2.5°	584.5
5°	584.5
7.5°	584.5
10°	586.5
12.5°	584.5
15°	584.5
17.5°	582.5
20°	582.5
22.5°	578.5
25°	576.5
27.5°	574.5
30°	572.5
32.5°	570.5
35°	568.5
37.5°	566.5
40°	564.5
42.5°	560.5
45°	550.6
47.5°	534.6
50°	512.7
52.5°	484.7
55°	454.8
57.5°	420.9
60°	383.0
62.5°	343.1
65°	301.2
67.5°	261.3
70°	217.4
72.5°	179.5
75°	139.6
77.5°	103.7
80°	69.8
82.5°	41.9
85°	18.0
87.5°	4.0
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	19.26	20.96	19.63	21.28	21.59	19.26	20.96	19.63	21.28	21.59
	3H	20.88	22.41	21.25	22.74	23.10	20.88	22.41	21.25	22.74	23.10
	4H	21.40	22.85	21.79	23.19	23.57	21.40	22.85	21.79	23.19	23.57
	6H	21.70	23.04	22.11	23.40	23.79	21.70	23.04	22.11	23.40	23.79
	8H	21.76	23.04	22.18	23.43	23.83	21.76	23.04	22.18	23.43	23.83
	12H	21.78	23.01	22.20	23.39	23.82	21.78	23.01	22.20	23.39	23.82
4H	2H	19.86	21.31	20.26	21.66	22.03	19.86	21.31	20.26	21.66	22.03
	3H	21.67	22.89	22.08	23.28	23.68	21.67	22.89	22.08	23.28	23.68
	4H	22.30	23.40	22.73	23.81	24.24	22.30	23.40	22.73	23.81	24.24
	6H	22.69	23.65	23.15	24.09	24.54	22.69	23.65	23.15	24.09	24.54
	8H	22.78	23.68	23.24	24.12	24.58	22.78	23.68	23.24	24.12	24.58
	12H	22.82	23.62	23.30	24.10	24.56	22.82	23.62	23.30	24.10	24.56
8H	4H	22.54	23.43	23.00	23.87	24.34	22.54	23.43	23.00	23.87	24.34
	6H	23.00	23.75	23.50	24.23	24.71	23.00	23.75	23.50	24.23	24.71
	8H	23.13	23.79	23.63	24.30	24.78	23.13	23.79	23.63	24.30	24.78
	12H	23.19	23.78	23.69	24.27	24.83	23.19	23.78	23.69	24.27	24.83
12H	4H	22.55	23.36	23.03	23.83	24.30	22.55	23.36	23.03	23.83	24.30
	6H	23.02	23.69	23.53	24.19	24.68	23.02	23.69	23.53	24.19	24.68
	8H	23.18	23.77	23.69	24.26	24.82	23.18	23.77	23.69	24.26	24.82