

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: P866009

Luminaire Tested: PRLX-2001-M-930-65L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866009  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-M-930-65L-L-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

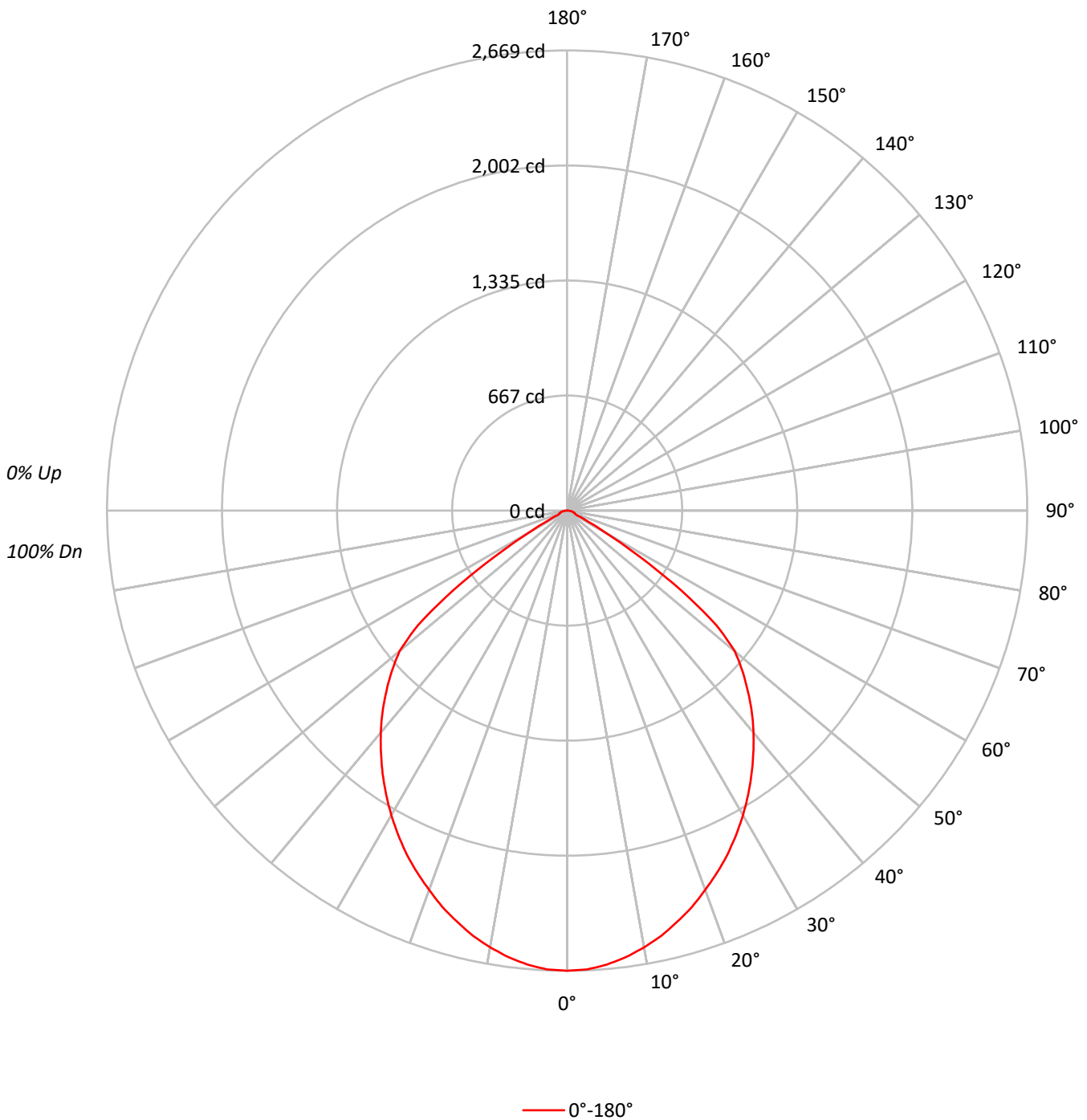
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5118.8 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.6  
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: 0.333 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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33

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

	0°
0°	22651
5°	22517
10°	22166
15°	21688
20°	21139
25°	20606
30°	19990
35°	19325
40°	18634
45°	17801
50°	16752
55°	11971
60°	4460
65°	1181
70°	1159
75°	1246
80°	1354
85°	1344

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17801 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.1	4.9
10°-20°	695.5	13.6
20°-30°	1012.5	19.8
30°-40°	1166.2	22.8
40°-50°	1142.5	22.3
50°-60°	701.6	13.7
60°-70°	95.5	1.9
70°-80°	39.9	0.8
80°-90°	15.0	0.3
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°	1958.1	38.3
0°-40°	3124.3	61.0
0°-60°	4968.4	97.1
0°-90°	5118.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5118.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2669	
5°	2643	250
15°	2469	695
25°	2201	1013
35°	1865	1166
45°	1483	1143
55°	809	702
65°	59	95
75°	38	40
85°	14	15
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2669.2
2.5°	2664.1
5°	2643.3
7.5°	2612.2
10°	2572.4
12.5°	2525.8
15°	2468.7
17.5°	2409.9
20°	2340.8
22.5°	2273.3
25°	2200.7
27.5°	2121.2
30°	2040.0
32.5°	1953.5
35°	1865.4
37.5°	1773.7
40°	1682.1
42.5°	1585.3
45°	1483.3
47.5°	1379.6
50°	1268.9
52.5°	1090.9
55°	809.1
57.5°	503.1
60°	262.8
62.5°	127.9
65°	58.8
67.5°	48.4
70°	46.7
72.5°	43.2
75°	38.0
77.5°	32.8
80°	27.7
82.5°	20.7
85°	13.8
87.5°	6.9
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	17.66	19.06	18.03	19.37	19.69	17.66	19.06	18.03	19.37	19.69
	3H	17.60	18.83	17.98	19.16	19.53	17.60	18.83	17.98	19.16	19.53
	4H	17.59	18.73	17.99	19.08	19.46	17.59	18.73	17.99	19.08	19.46
	6H	17.57	18.62	17.99	18.99	19.38	17.57	18.62	17.99	18.99	19.38
	8H	17.56	18.55	17.99	18.94	19.35	17.56	18.55	17.99	18.94	19.35
	12H	17.54	18.49	17.98	18.87	19.30	17.54	18.49	17.98	18.87	19.30
4H	2H	17.50	18.64	17.90	18.99	19.37	17.50	18.64	17.90	18.99	19.37
	3H	17.48	18.39	17.89	18.80	19.20	17.48	18.39	17.89	18.80	19.20
	4H	17.47	18.29	17.91	18.71	19.15	17.47	18.29	17.91	18.71	19.15
	6H	17.50	18.20	17.96	18.65	19.11	17.50	18.20	17.96	18.65	19.11
	8H	17.49	18.15	17.96	18.60	19.07	17.49	18.15	17.96	18.60	19.07
	12H	17.49	18.08	17.98	18.56	19.03	17.49	18.08	17.98	18.56	19.03
8H	4H	17.39	18.05	17.85	18.49	18.96	17.39	18.05	17.85	18.49	18.96
	6H	17.42	17.97	17.93	18.47	18.95	17.42	17.97	17.93	18.47	18.95
	8H	17.44	17.93	17.96	18.45	18.94	17.44	17.93	17.96	18.45	18.94
	12H	17.46	17.90	17.97	18.40	18.97	17.46	17.90	17.97	18.40	18.97
12H	4H	17.35	17.93	17.84	18.42	18.89	17.35	17.93	17.84	18.42	18.89
	6H	17.38	17.88	17.90	18.39	18.88	17.38	17.88	17.90	18.39	18.88
	8H	17.42	17.87	17.93	18.36	18.93	17.42	17.87	17.93	18.36	18.93