

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: P866000

Luminaire Tested: PRLX-2001-M-930-55L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866000  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-930-55L-L-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

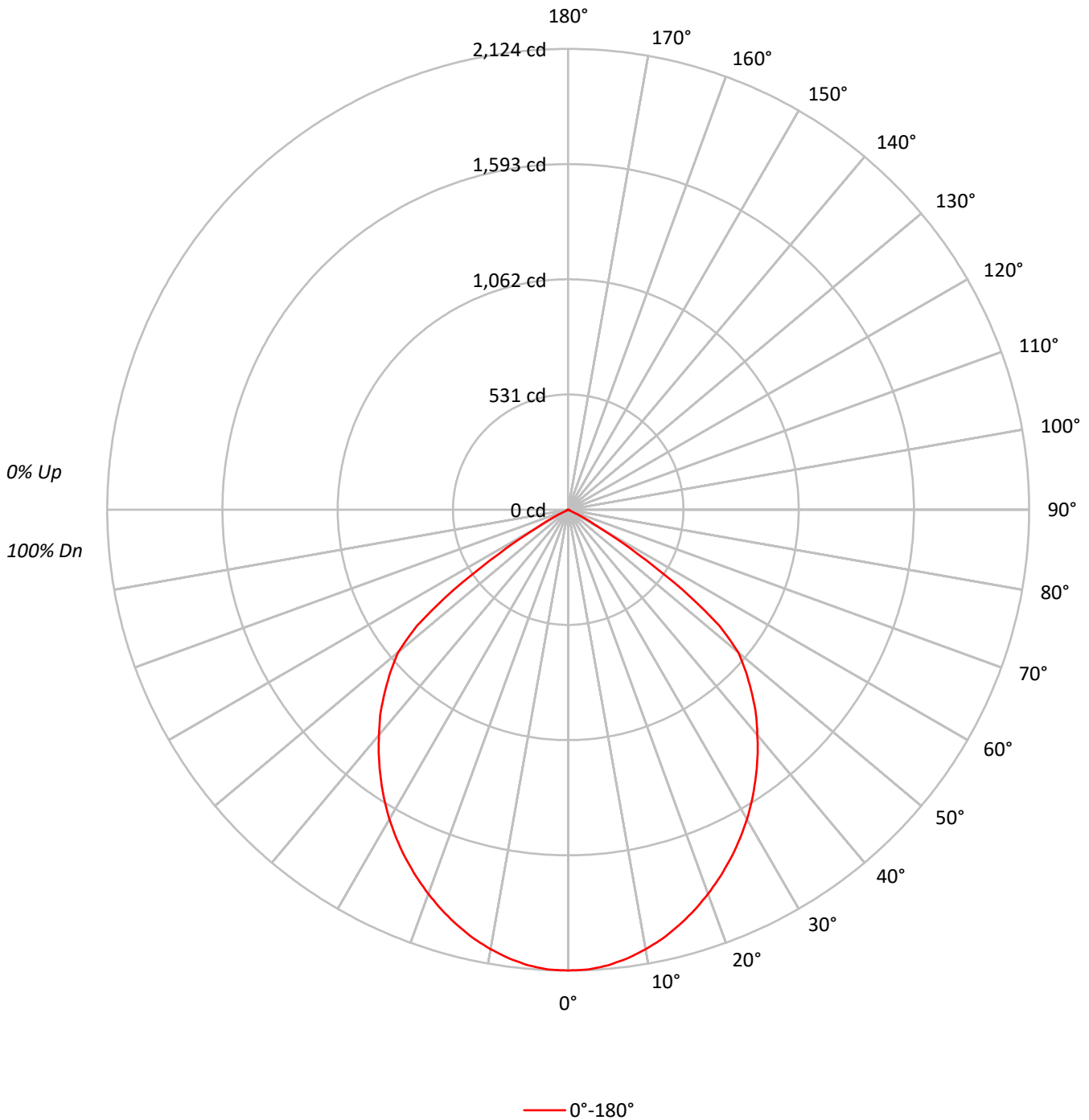
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4040.4 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48.3  
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: 0.5 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	112	108	105	103	109	106	103	101	102	100	98		98	97	95		95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	86		90	86	84		87	84	82	80
3	97	88	82	77	95	87	81	76	84	79	75		82	77	74		79	76	73	71
4	90	80	73	67	88	79	72	67	76	71	66		74	69	65		72	68	64	63
5	83	73	65	60	82	72	65	59	70	63	59		68	62	58		66	61	58	56
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		61	55	52	50
7	72	60	53	47	71	60	52	47	58	52	47		57	51	47		56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42		52	47	42		51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44	39	35	33

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

	0°
0°	18024
5°	17956
10°	17722
15°	17400
20°	17015
25°	16600
30°	16140
35°	15609
40°	15021
45°	14360
50°	13499
55°	9522
60°	3004
65°	205
70°	146
75°	144
80°	142
85°	146

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14360 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.6	4.9
10°-20°	558.0	13.8
20°-30°	816.1	20.2
30°-40°	941.9	23.3
40°-50°	921.7	22.8
50°-60°	553.0	13.7
60°-70°	43.1	1.1
70°-80°	5.0	0.1
80°-90°	2.0	0.0
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°	1573.6	38.9
0°-40°	2515.6	62.3
0°-60°	3990.2	98.8
0°-90°	4040.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4040.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2124	
5°	2108	200
15°	1981	558
25°	1773	816
35°	1507	942
45°	1197	922
55°	644	553
65°	10	43
75°	4	5
85°	2	2
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2124.0
2.5°	2121.1
5°	2107.9
7.5°	2086.0
10°	2056.7
12.5°	2023.1
15°	1980.6
17.5°	1935.3
20°	1884.1
22.5°	1830.0
25°	1772.9
27.5°	1711.5
30°	1647.1
32.5°	1578.4
35°	1506.7
37.5°	1433.6
40°	1356.0
42.5°	1281.4
45°	1196.6
47.5°	1111.7
50°	1022.5
52.5°	877.7
55°	643.6
57.5°	378.9
60°	177.0
62.5°	70.2
65°	10.2
67.5°	5.9
70°	5.9
72.5°	5.9
75°	4.4
77.5°	4.4
80°	2.9
82.5°	2.9
85°	1.5
87.5°	1.5
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	16.51	17.89	16.88	18.20	18.52	16.51	17.89	16.88	18.20	18.52
	3H	16.39	17.60	16.77	17.93	18.29	16.39	17.60	16.77	17.93	18.29
	4H	16.32	17.44	16.73	17.79	18.17	16.32	17.44	16.73	17.79	18.17
	6H	16.25	17.27	16.66	17.64	18.04	16.25	17.27	16.66	17.64	18.04
	8H	16.21	17.18	16.64	17.57	17.97	16.21	17.18	16.64	17.57	17.97
	12H	16.17	17.09	16.60	17.48	17.91	16.17	17.09	16.60	17.48	17.91
4H	2H	16.32	17.44	16.73	17.79	18.17	16.32	17.44	16.73	17.79	18.17
	3H	16.20	17.10	16.62	17.50	17.91	16.20	17.10	16.62	17.50	17.91
	4H	16.12	16.91	16.56	17.33	17.78	16.12	16.91	16.56	17.33	17.78
	6H	16.04	16.73	16.51	17.17	17.64	16.04	16.73	16.51	17.17	17.64
	8H	15.99	16.62	16.46	17.07	17.54	15.99	16.62	16.46	17.07	17.54
	12H	15.94	16.50	16.42	16.99	17.46	15.94	16.50	16.42	16.99	17.46
8H	4H	15.98	16.62	16.45	17.07	17.54	15.98	16.62	16.45	17.07	17.54
	6H	15.88	16.41	16.38	16.90	17.38	15.88	16.41	16.38	16.90	17.38
	8H	15.81	16.29	16.33	16.81	17.30	15.81	16.29	16.33	16.81	17.30
	12H	15.76	16.19	16.27	16.69	17.26	15.76	16.19	16.27	16.69	17.26
12H	4H	15.93	16.50	16.42	16.98	17.46	15.93	16.50	16.42	16.98	17.46
	6H	15.81	16.29	16.33	16.80	17.30	15.81	16.29	16.33	16.80	17.30
	8H	15.76	16.19	16.27	16.69	17.26	15.76	16.19	16.27	16.69	17.26