

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: P866967

Luminaire Tested: PRLX-2002-L-927-67L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-L-927-67L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

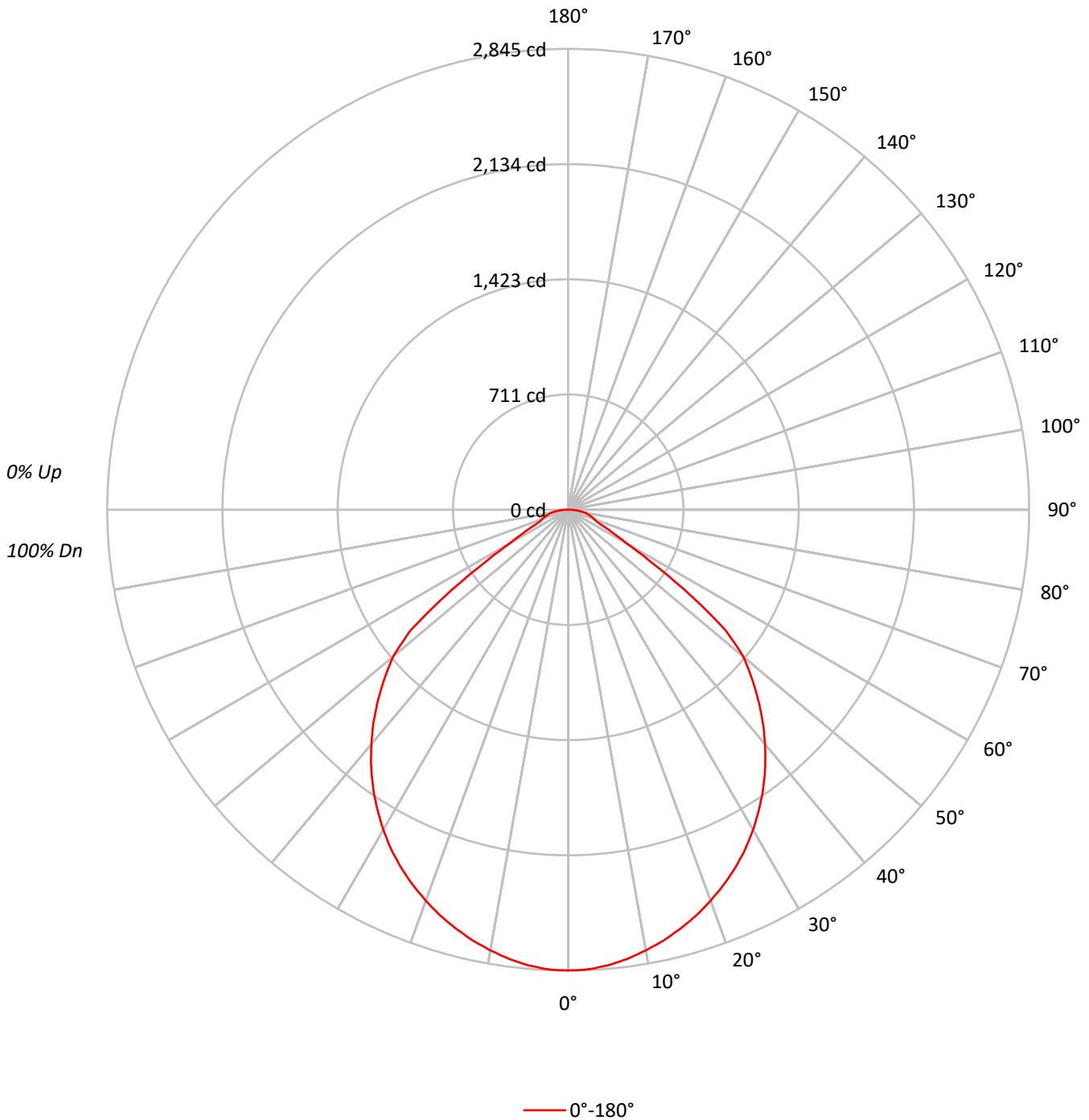
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6009.1 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 50.4  
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	111	107	103	100	108	105	101	99	101	98	96		97	95	93		93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62		71	66	62		69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	54		63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49		59	53	48		58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44		54	48	43		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	36		45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	36	32	31

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

	0°
0°	14036
5°	13984
10°	13839
15°	13673
20°	13488
25°	13279
30°	12997
35°	12642
40°	12170
45°	11568
50°	10824
55°	7928
60°	4143
65°	2761
70°	2470
75°	2625
80°	2870
85°	3159

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11568 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.6	4.5
10°-20°	755.0	12.6
20°-30°	1122.7	18.7
30°-40°	1310.5	21.8
40°-50°	1276.8	21.2
50°-60°	818.0	13.6
60°-70°	254.7	4.2
70°-80°	145.1	2.4
80°-90°	58.7	1.0
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°	2145.3	35.7
0°-40°	3455.8	57.5
0°-60°	5550.6	92.4
0°-90°	6009.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6009.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2845	
5°	2824	268
15°	2677	755
25°	2439	1123
35°	2099	1311
45°	1658	1277
55°	922	818
65°	236	255
75°	138	145
85°	56	59
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2844.8
2.5°	2840.5
5°	2823.5
7.5°	2796.9
10°	2762.4
12.5°	2723.6
15°	2676.8
17.5°	2626.9
20°	2568.9
22.5°	2506.7
25°	2439.2
27.5°	2364.8
30°	2281.4
32.5°	2192.6
35°	2099.0
37.5°	1998.0
40°	1889.6
42.5°	1777.5
45°	1657.9
47.5°	1535.6
50°	1410.2
52.5°	1227.3
55°	921.7
57.5°	624.0
60°	419.9
62.5°	313.1
65°	236.5
67.5°	187.6
70°	171.2
72.5°	155.7
75°	137.7
77.5°	120.1
80°	101.0
82.5°	79.7
85°	55.8
87.5°	29.8
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	16.73	18.18	17.09	18.50	18.81	16.73	18.18	17.09	18.50	18.81
	3H	17.14	18.43	17.52	18.76	19.13	17.14	18.43	17.52	18.76	19.13
	4H	17.43	18.63	17.83	18.98	19.36	17.43	18.63	17.83	18.98	19.36
	6H	17.75	18.86	18.16	19.22	19.62	17.75	18.86	18.16	19.22	19.62
	8H	17.89	18.95	18.32	19.34	19.74	17.89	18.95	18.32	19.34	19.74
	12H	18.02	19.02	18.45	19.41	19.84	18.02	19.02	18.45	19.41	19.84
4H	2H	16.79	17.99	17.19	18.34	18.72	16.79	17.99	17.19	18.34	18.72
	3H	17.40	18.38	17.81	18.79	19.19	17.40	18.38	17.81	18.79	19.19
	4H	17.83	18.71	18.26	19.12	19.56	17.83	18.71	18.26	19.12	19.56
	6H	18.32	19.08	18.78	19.52	19.99	18.32	19.08	18.78	19.52	19.99
	8H	18.54	19.25	19.00	19.70	20.17	18.54	19.25	19.00	19.70	20.17
	12H	18.74	19.38	19.22	19.86	20.33	18.74	19.38	19.22	19.86	20.33
8H	4H	17.97	18.68	18.44	19.13	19.60	17.97	18.68	18.44	19.13	19.60
	6H	18.60	19.19	19.10	19.69	20.17	18.60	19.19	19.10	19.69	20.17
	8H	18.92	19.46	19.44	19.97	20.46	18.92	19.46	19.44	19.97	20.46
	12H	19.23	19.71	19.74	20.20	20.77	19.23	19.71	19.74	20.20	20.77
12H	4H	17.98	18.62	18.47	19.10	19.57	17.98	18.62	18.47	19.10	19.57
	6H	18.65	19.18	19.16	19.70	20.19	18.65	19.18	19.16	19.70	20.19
	8H	19.03	19.51	19.54	20.01	20.57	19.03	19.51	19.54	20.01	20.57