

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: P867031

Luminaire Tested: PRLX-2002-L-930-67L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867031  
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-930-67L-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

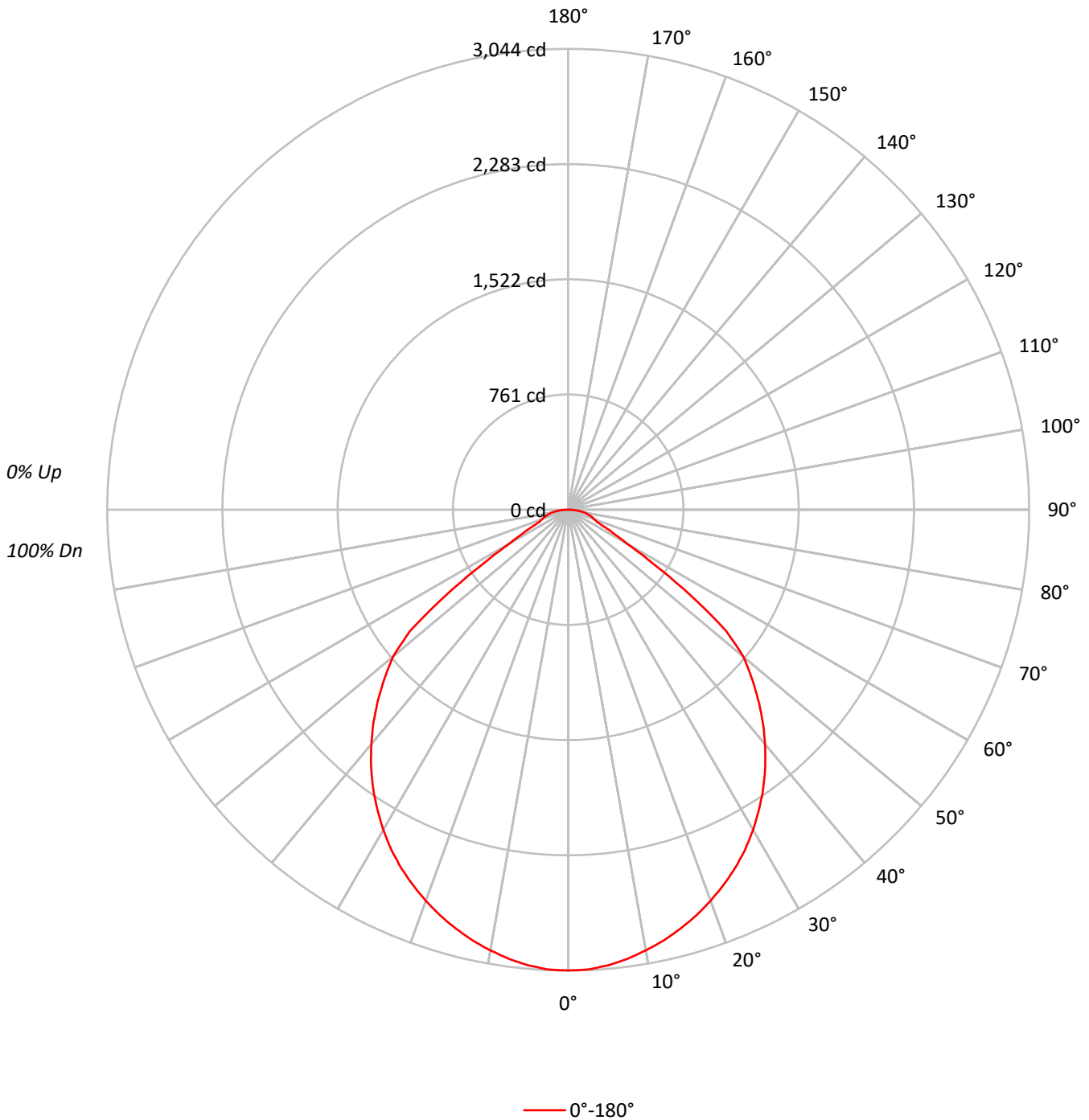
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6429.6 lumens  
Efficiency: N/A  
Efficacy: 127.6 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°	15018
5°	14962
10°	14808
15°	14629
20°	14432
25°	14208
30°	13907
35°	13527
40°	13022
45°	12377
50°	11581
55°	8483
60°	4434
65°	2955
70°	2641
75°	2808
80°	3071
85°	3380

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12377 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.3	4.5
10°-20°	807.8	12.6
20°-30°	1201.3	18.7
30°-40°	1402.2	21.8
40°-50°	1366.1	21.2
50°-60°	875.2	13.6
60°-70°	272.5	4.2
70°-80°	155.2	2.4
80°-90°	62.8	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°	2295.4	35.7
0°-40°	3697.6	57.5
0°-60°	5939.0	92.4
0°-90°	6429.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6429.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3044	
5°	3021	286
15°	2864	808
25°	2610	1201
35°	2246	1402
45°	1774	1366
55°	986	875
65°	253	273
75°	147	155
85°	60	63
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3043.9
2.5°	3039.3
5°	3021.1
7.5°	2992.7
10°	2955.7
12.5°	2914.2
15°	2864.1
17.5°	2810.7
20°	2748.7
22.5°	2682.1
25°	2609.9
27.5°	2530.3
30°	2441.0
32.5°	2346.0
35°	2245.9
37.5°	2137.9
40°	2021.8
42.5°	1901.8
45°	1773.9
47.5°	1643.1
50°	1508.8
52.5°	1313.2
55°	986.2
57.5°	667.7
60°	449.3
62.5°	335.0
65°	253.1
67.5°	200.8
70°	183.1
72.5°	166.6
75°	147.3
77.5°	128.5
80°	108.1
82.5°	85.3
85°	59.7
87.5°	31.8
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	16.96	18.42	17.33	18.73	19.05	16.96	18.42	17.33	18.73	19.05
	3H	17.38	18.67	17.76	19.00	19.36	17.38	18.67	17.76	19.00	19.36
	4H	17.66	18.87	18.06	19.22	19.60	17.66	18.87	18.06	19.22	19.60
	6H	17.98	19.09	18.40	19.46	19.85	17.98	19.09	18.40	19.46	19.85
	8H	18.13	19.18	18.56	19.57	19.97	18.13	19.18	18.56	19.57	19.97
	12H	18.25	19.26	18.68	19.64	20.07	18.25	19.26	18.68	19.64	20.07
4H	2H	17.02	18.22	17.42	18.57	18.95	17.02	18.22	17.42	18.57	18.95
	3H	17.64	18.62	18.05	19.02	19.42	17.64	18.62	18.05	19.02	19.42
	4H	18.06	18.94	18.49	19.36	19.80	18.06	18.94	18.49	19.36	19.80
	6H	18.55	19.31	19.01	19.76	20.22	18.55	19.31	19.01	19.76	20.22
	8H	18.77	19.49	19.24	19.93	20.40	18.77	19.49	19.24	19.93	20.40
	12H	18.97	19.61	19.46	20.09	20.56	18.97	19.61	19.46	20.09	20.56
8H	4H	18.20	18.92	18.67	19.36	19.83	18.20	18.92	18.67	19.36	19.83
	6H	18.84	19.43	19.34	19.92	20.40	18.84	19.43	19.34	19.92	20.40
	8H	19.15	19.69	19.67	20.20	20.69	19.15	19.69	19.67	20.20	20.69
	12H	19.46	19.94	19.97	20.44	21.00	19.46	19.94	19.97	20.44	21.00
12H	4H	18.22	18.86	18.70	19.34	19.81	18.22	18.86	18.70	19.34	19.81
	6H	18.88	19.42	19.40	19.93	20.42	18.88	19.42	19.40	19.93	20.42
	8H	19.27	19.75	19.78	20.24	20.81	19.27	19.75	19.78	20.24	20.81