

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: P866966

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)  
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-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

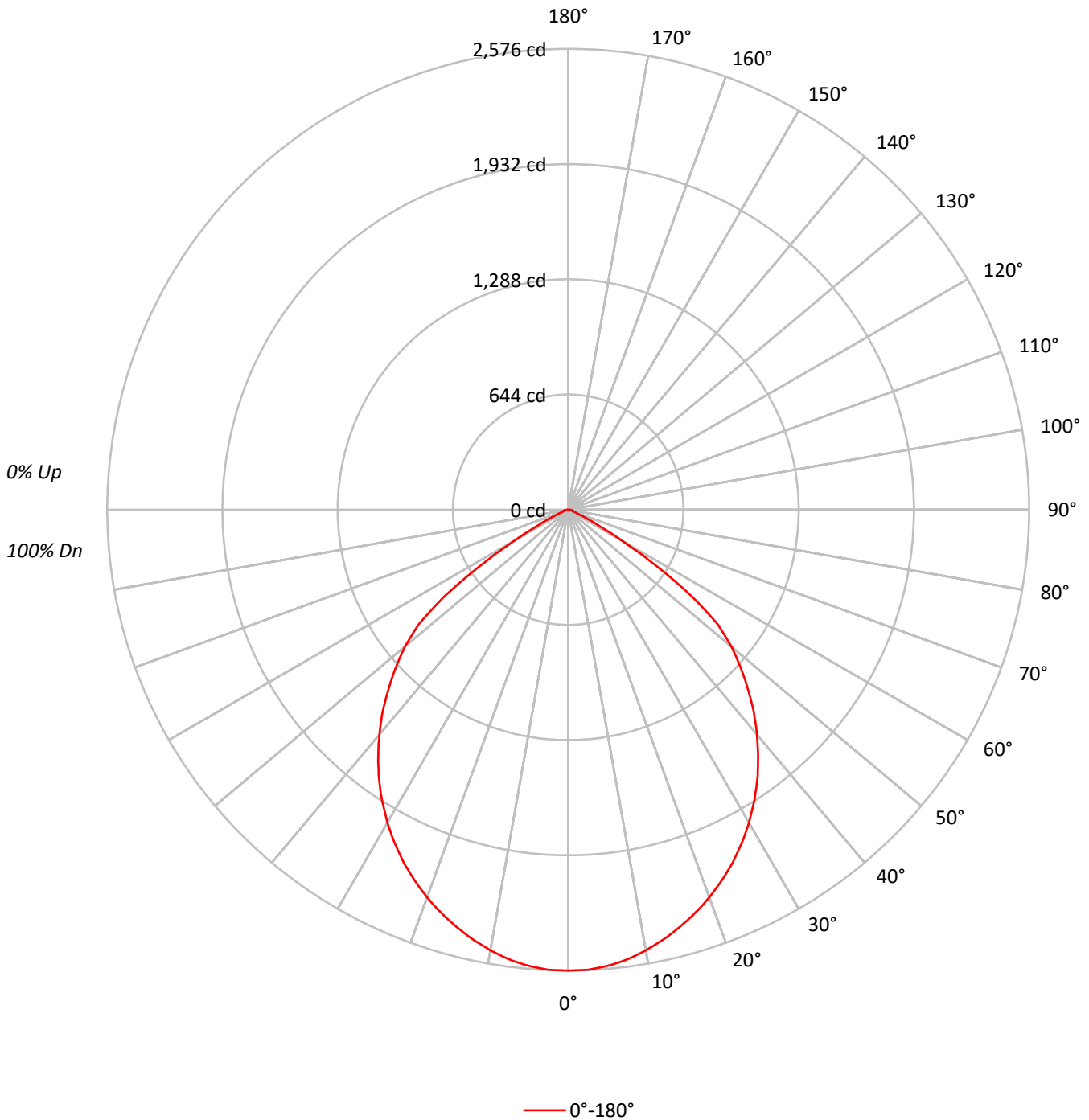
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5063.6 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 50.4  
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

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

	0°
0°	12711
5°	12673
10°	12532
15°	12331
20°	12106
25°	11840
30°	11507
35°	11099
40°	10568
45°	9917
50°	9139
55°	7265
60°	3420
65°	1235
70°	476
75°	526
80°	605
85°	725

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9917 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.4	4.8
10°-20°	680.4	13.4
20°-30°	1000.7	19.8
30°-40°	1149.7	22.7
40°-50°	1095.1	21.6
50°-60°	720.1	14.2
60°-70°	133.0	2.6
70°-80°	29.1	0.6
80°-90°	13.0	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°	1923.5	38.0
0°-40°	3073.3	60.7
0°-60°	4888.5	96.5
0°-90°	5063.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5063.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2576	
5°	2559	242
15°	2414	680
25°	2175	1001
35°	1843	1150
45°	1421	1095
55°	845	720
65°	106	133
75°	28	29
85°	13	13
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2576.4
2.5°	2573.7
5°	2558.8
7.5°	2534.9
10°	2501.4
12.5°	2460.5
15°	2414.2
17.5°	2362.2
20°	2305.8
22.5°	2243.1
25°	2175.0
27.5°	2100.6
30°	2019.8
32.5°	1933.2
35°	1842.8
37.5°	1744.0
40°	1640.9
42.5°	1535.1
45°	1421.3
47.5°	1308.6
50°	1190.6
52.5°	1052.4
55°	844.6
57.5°	578.8
60°	346.6
62.5°	195.1
65°	105.8
67.5°	53.2
70°	33.0
72.5°	30.3
75°	27.6
77.5°	25.0
80°	21.3
82.5°	17.5
85°	12.8
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	16.83	18.23	17.19	18.54	18.86	16.83	18.23	17.19	18.54	18.86
	3H	16.74	17.98	17.12	18.31	18.67	16.74	17.98	17.12	18.31	18.67
	4H	16.69	17.84	17.10	18.19	18.57	16.69	17.84	17.10	18.19	18.57
	6H	16.65	17.70	17.06	18.07	18.46	16.65	17.70	17.06	18.07	18.46
	8H	16.62	17.62	17.05	18.01	18.41	16.62	17.62	17.05	18.01	18.41
	12H	16.60	17.55	17.03	17.93	18.36	16.60	17.55	17.03	17.93	18.36
4H	2H	16.70	17.85	17.10	18.20	18.58	16.70	17.85	17.10	18.20	18.58
	3H	16.63	17.56	17.04	17.96	18.36	16.63	17.56	17.04	17.96	18.36
	4H	16.58	17.40	17.01	17.82	18.26	16.58	17.40	17.01	17.82	18.26
	6H	16.55	17.26	17.01	17.70	18.17	16.55	17.26	17.01	17.70	18.17
	8H	16.52	17.18	16.99	17.63	18.10	16.52	17.18	16.99	17.63	18.10
	12H	16.50	17.09	16.99	17.57	18.05	16.50	17.09	16.99	17.57	18.05
8H	4H	16.47	17.13	16.94	17.58	18.05	16.47	17.13	16.94	17.58	18.05
	6H	16.43	16.98	16.93	17.47	17.95	16.43	16.98	16.93	17.47	17.95
	8H	16.41	16.90	16.93	17.42	17.91	16.41	16.90	16.93	17.42	17.91
	12H	16.40	16.85	16.92	17.34	17.91	16.40	16.85	16.92	17.34	17.91
12H	4H	16.43	17.01	16.91	17.50	17.97	16.43	17.01	16.91	17.50	17.97
	6H	16.37	16.87	16.89	17.38	17.88	16.37	16.87	16.89	17.38	17.88
	8H	16.37	16.82	16.89	17.31	17.88	16.37	16.82	16.89	17.31	17.88