

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: P867240

Luminaire Tested: PRLX-2004-L-930-100L-G-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-75)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2004-L-930-100L-G-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
BELL WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

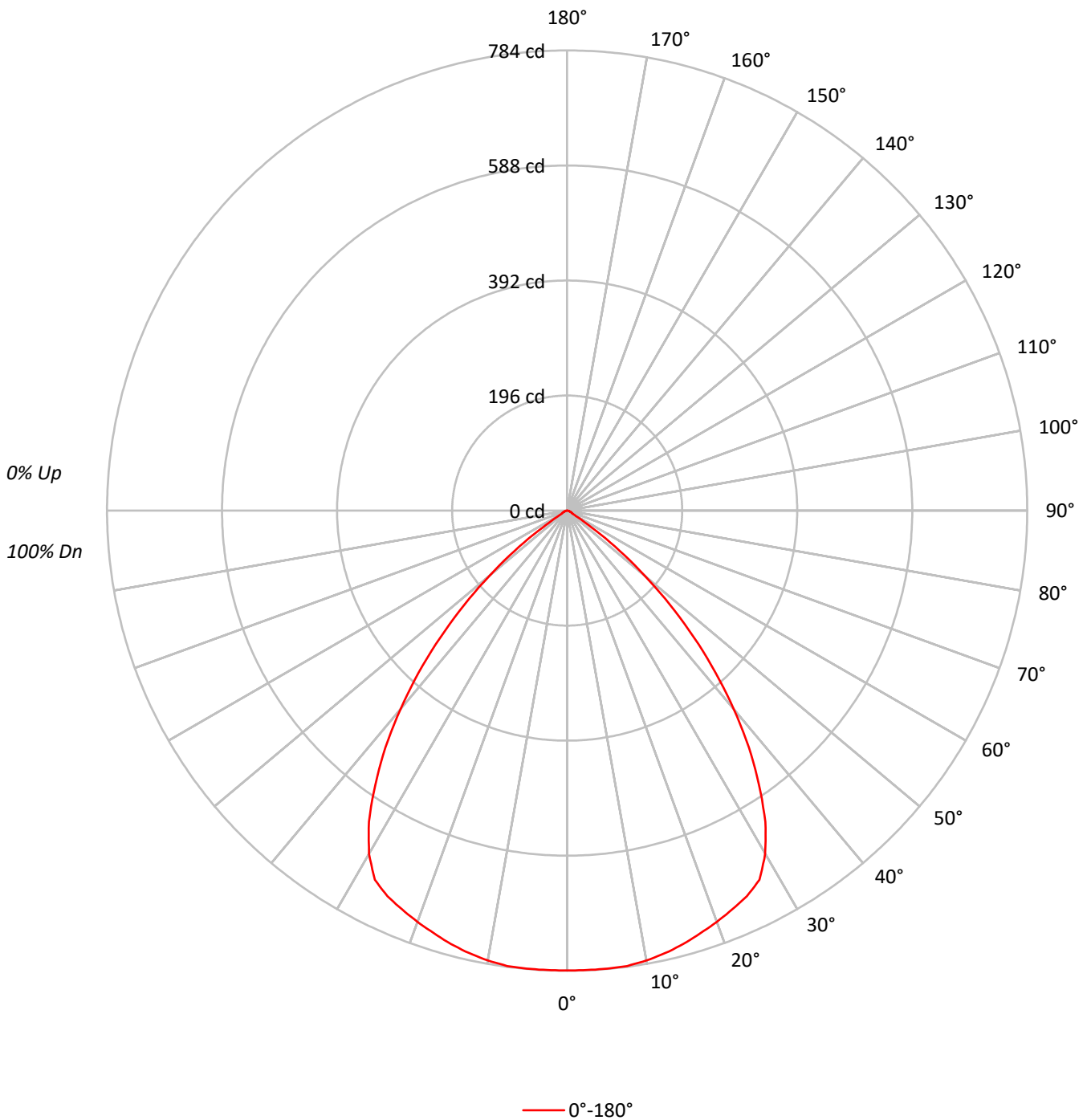
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1285.3 lumens  
Efficiency: N/A  
Efficacy: 16.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.19  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 79.4  
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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	51
8	72	60	53	49	70	60	53	48	59	53	48	58	52	48	56	51	48	46
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42
10	64	52	45	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

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

	0°
0°	3866
5°	3880
10°	3899
15°	3905
20°	3915
25°	3946
30°	3846
35°	3433
40°	2845
45°	2132
50°	1322
55°	511
60°	111
65°	90
70°	75
75°	65
80°	74
85°	51

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2132 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.6	5.8
10°-20°	215.9	16.8
20°-30°	332.4	25.9
30°-40°	352.9	27.5
40°-50°	234.2	18.2
50°-60°	62.2	4.8
60°-70°	8.0	0.6
70°-80°	3.7	0.3
80°-90°	1.3	0.1
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°	623.0	48.5
0°-40°	975.9	75.9
0°-60°	1272.3	99.0
0°-90°	1285.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1285.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	784	
5°	784	75
15°	764	216
25°	725	332
35°	570	353
45°	306	234
55°	59	62
65°	8	8
75°	3	4
85°	1	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	783.5
2.5°	783.5
5°	783.5
7.5°	782.6
10°	778.3
12.5°	772.3
15°	764.5
17.5°	755.1
20°	745.6
22.5°	735.3
25°	724.9
27.5°	709.4
30°	675.0
32.5°	628.5
35°	570.0
37.5°	508.8
40°	441.7
42.5°	374.5
45°	305.6
47.5°	237.6
50°	172.2
52.5°	112.8
55°	59.4
57.5°	19.8
60°	11.2
62.5°	9.5
65°	7.7
67.5°	6.9
70°	5.2
72.5°	4.3
75°	3.4
77.5°	2.6
80°	2.6
82.5°	1.7
85°	0.9
87.5°	0.9
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	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.20
	3H	0.00	0.00	0.00	0.23	0.60	0.00	0.00	0.00	0.23	0.60
	4H	0.00	0.00	0.00	0.32	0.71	0.00	0.00	0.00	0.32	0.71
	6H	0.00	0.02	0.00	0.39	0.79	0.00	0.02	0.00	0.39	0.79
	8H	0.00	0.02	0.00	0.41	0.82	0.00	0.02	0.00	0.41	0.82
	12H	0.00	0.00	0.00	0.38	0.81	0.00	0.00	0.00	0.38	0.81
4H	2H	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.11
	3H	0.00	0.00	0.00	0.21	0.62	0.00	0.00	0.00	0.21	0.62
	4H	0.00	0.00	0.00	0.36	0.81	0.00	0.00	0.00	0.36	0.81
	6H	0.00	0.09	0.00	0.53	1.00	0.00	0.09	0.00	0.53	1.00
	8H	0.00	0.14	0.06	0.59	1.06	0.00	0.14	0.06	0.59	1.06
	12H	0.00	0.11	0.11	0.60	1.07	0.00	0.11	0.11	0.60	1.07
8H	4H	0.00	0.00	0.00	0.26	0.74	0.00	0.00	0.00	0.26	0.74
	6H	0.00	0.06	0.11	0.56	1.04	0.00	0.06	0.11	0.56	1.04
	8H	0.00	0.16	0.28	0.68	1.18	0.00	0.16	0.28	0.68	1.18
	12H	0.00	0.21	0.36	0.71	1.28	0.00	0.21	0.36	0.71	1.28
12H	4H	0.00	0.00	0.00	0.21	0.69	0.00	0.00	0.00	0.21	0.69
	6H	0.00	0.01	0.13	0.53	1.02	0.00	0.01	0.13	0.53	1.02
	8H	0.00	0.16	0.31	0.65	1.23	0.00	0.16	0.31	0.65	1.23