

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: P866985

Luminaire Tested: PRLX-2002-L-930-100L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866985  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-L-930-100L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

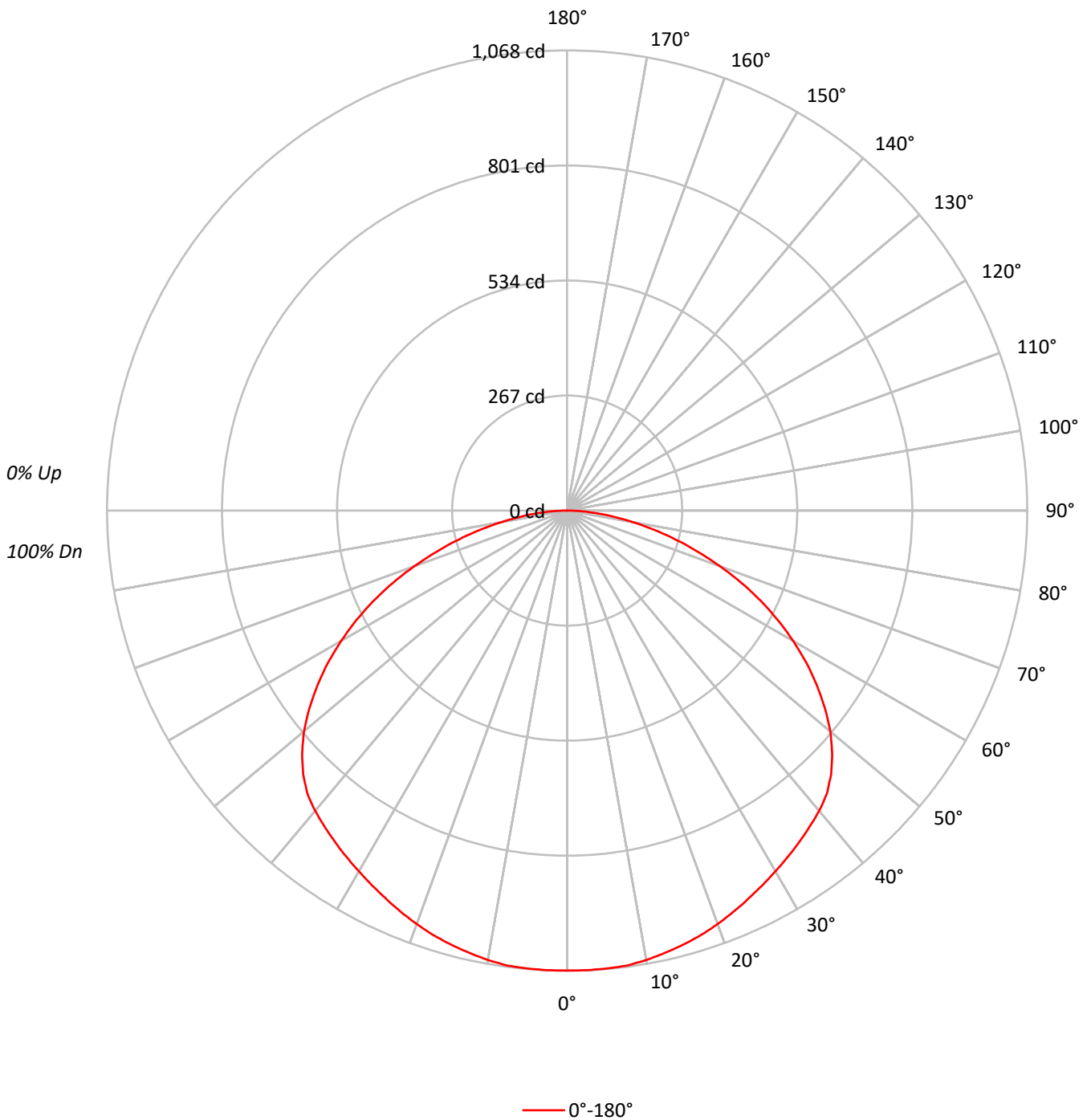
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3585.9 lumens  
Efficiency: N/A  
Efficacy: 45.2 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
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: 0.5 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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

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

	0°
0°	5267
5°	5283
10°	5306
15°	5325
20°	5361
25°	5413
30°	5509
35°	5657
40°	5861
45°	6043
50°	6119
55°	6088
60°	5981
65°	5789
70°	5440
75°	4989
80°	4452
85°	3657

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 6119 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.6	2.8
10°-20°	294.8	8.2
20°-30°	459.5	12.8
30°-40°	589.1	16.4
40°-50°	666.0	18.6
50°-60°	631.3	17.6
60°-70°	489.1	13.6
70°-80°	278.1	7.8
80°-90°	76.4	2.1
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°	855.9	23.9
0°-40°	1445.0	40.3
0°-60°	2742.3	76.5
0°-90°	3585.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3585.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1068	
5°	1067	102
15°	1043	295
25°	994	459
35°	939	589
45°	866	666
55°	708	631
65°	496	489
75°	262	278
85°	65	76
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1067.6
2.5°	1067.6
5°	1066.7
7.5°	1065.0
10°	1059.0
12.5°	1051.2
15°	1042.6
17.5°	1033.2
20°	1021.1
22.5°	1008.2
25°	994.4
27.5°	980.6
30°	966.9
32.5°	953.1
35°	939.3
37.5°	924.7
40°	910.0
42.5°	892.0
45°	866.1
47.5°	834.3
50°	797.2
52.5°	754.2
55°	707.7
57.5°	658.6
60°	606.1
62.5°	551.9
65°	495.9
67.5°	437.4
70°	377.1
72.5°	318.6
75°	261.7
77.5°	207.5
80°	156.7
82.5°	108.5
85°	64.6
87.5°	29.3
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	18.72	20.41	19.08	20.73	21.04	18.72	20.41	19.08	20.73	21.04
	3H	20.56	22.09	20.93	22.42	22.78	20.56	22.09	20.93	22.42	22.78
	4H	21.22	22.68	21.62	23.02	23.40	21.22	22.68	21.62	23.02	23.40
	6H	21.71	23.06	22.12	23.42	23.81	21.71	23.06	22.12	23.42	23.81
	8H	21.87	23.16	22.29	23.54	23.94	21.87	23.16	22.29	23.54	23.94
	12H	21.97	23.20	22.40	23.58	24.01	21.97	23.20	22.40	23.58	24.01
4H	2H	19.38	20.83	19.78	21.18	21.55	19.38	20.83	19.78	21.18	21.55
	3H	21.43	22.65	21.84	23.05	23.45	21.43	22.65	21.84	23.05	23.45
	4H	22.22	23.33	22.65	23.74	24.18	22.22	23.33	22.65	23.74	24.18
	6H	22.84	23.81	23.29	24.25	24.70	22.84	23.81	23.29	24.25	24.70
	8H	23.04	23.95	23.50	24.39	24.85	23.04	23.95	23.50	24.39	24.85
	12H	23.18	24.00	23.66	24.47	24.94	23.18	24.00	23.66	24.47	24.94
8H	4H	22.54	23.45	23.00	23.89	24.35	22.54	23.45	23.00	23.89	24.35
	6H	23.27	24.03	23.77	24.52	24.99	23.27	24.03	23.77	24.52	24.99
	8H	23.55	24.23	24.05	24.73	25.21	23.55	24.23	24.05	24.73	25.21
	12H	23.76	24.36	24.26	24.85	25.41	23.76	24.36	24.26	24.85	25.41
12H	4H	22.58	23.40	23.06	23.87	24.34	22.58	23.40	23.06	23.87	24.34
	6H	23.33	24.01	23.84	24.52	25.00	23.33	24.01	23.84	24.52	25.00
	8H	23.66	24.26	24.17	24.75	25.31	23.66	24.26	24.17	24.75	25.31