

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: P867353

Luminaire Tested: PRLX-2004-L-935-67L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2004-L-935-67L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
BELL WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

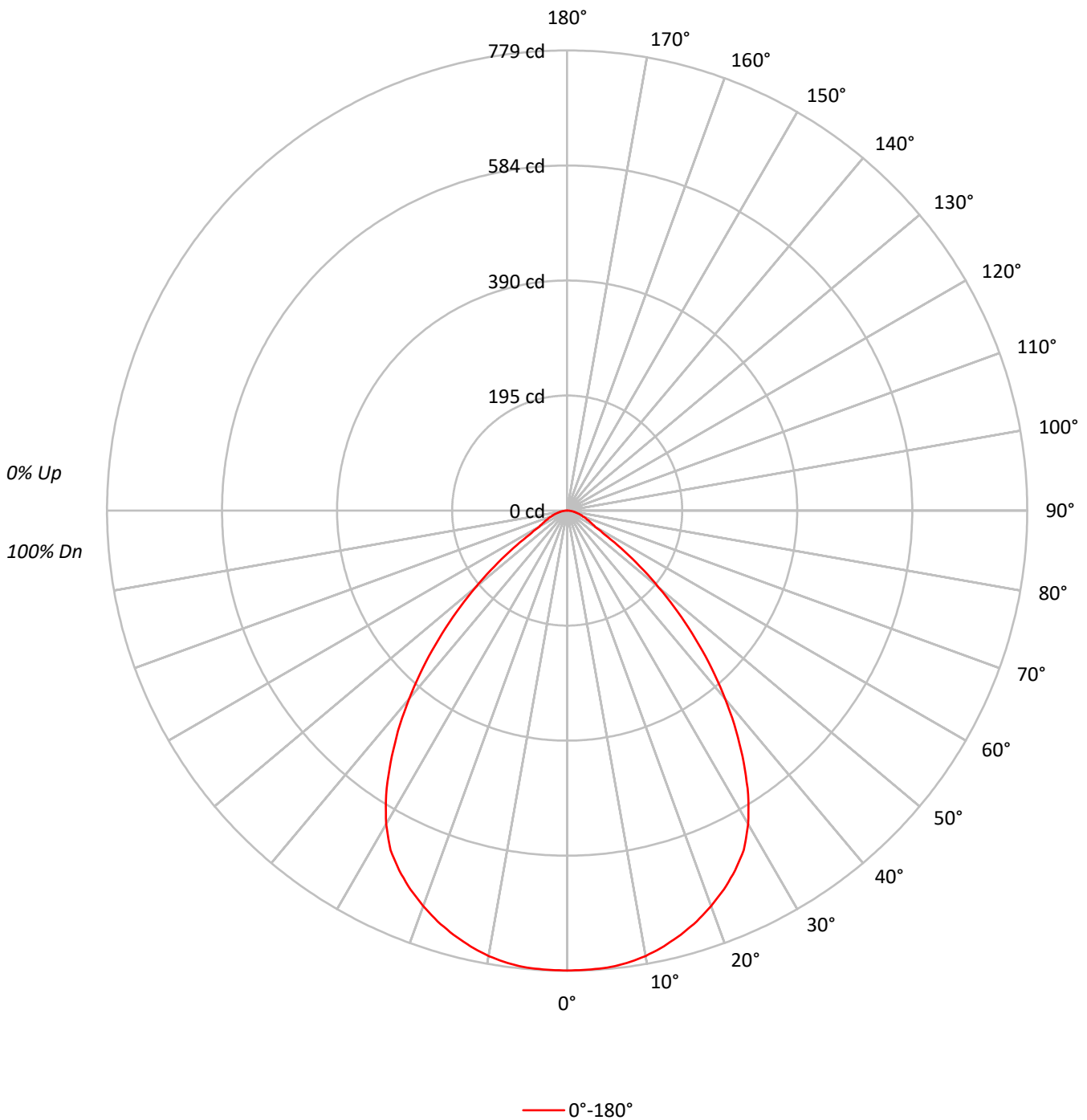
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1322.3 lumens  
Efficiency: N/A  
Efficacy: 26.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.17  
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: 0.5 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	101	102	100	97		98	96	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	74		80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67		75	70	67		73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60		69	64	60		68	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55		64	58	54		62	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49		59	53	49		58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45		55	49	45		54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41		51	45	41		50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38		48	42	38		47	42	38	36

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

	0°
0°	3841
5°	3848
10°	3836
15°	3797
20°	3739
25°	3660
30°	3492
35°	3139
40°	2683
45°	2144
50°	1556
55°	956
60°	540
65°	460
70°	407
75°	370
80°	335
85°	300

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2144 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.8	5.6
10°-20°	209.5	15.8
20°-30°	308.4	23.3
30°-40°	323.7	24.5
40°-50°	236.3	17.9
50°-60°	104.1	7.9
60°-70°	39.7	3.0
70°-80°	20.6	1.6
80°-90°	6.1	0.5
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°	591.7	44.7
0°-40°	915.4	69.2
0°-60°	1255.9	95.0
0°-90°	1322.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1322.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	779	
5°	777	74
15°	743	210
25°	672	308
35°	521	324
45°	307	236
55°	111	104
65°	39	40
75°	19	21
85°	5	6
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	778.6
2.5°	778.0
5°	776.9
7.5°	772.7
10°	765.7
12.5°	755.7
15°	743.4
17.5°	729.3
20°	712.2
22.5°	694.0
25°	672.3
27.5°	647.6
30°	612.9
32.5°	570.6
35°	521.2
37.5°	470.1
40°	416.6
42.5°	362.0
45°	307.3
47.5°	253.3
50°	202.7
52.5°	155.1
55°	111.1
57.5°	75.2
60°	54.7
62.5°	46.4
65°	39.4
67.5°	33.5
70°	28.2
72.5°	23.5
75°	19.4
77.5°	15.3
80°	11.8
82.5°	8.8
85°	5.3
87.5°	2.4
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	7.51	8.81	7.87	9.12	9.44	7.51	8.81	7.87	9.12	9.44
	3H	8.39	9.54	8.77	9.87	10.23	8.39	9.54	8.77	9.87	10.23
	4H	8.74	9.81	9.14	10.16	10.55	8.74	9.81	9.14	10.16	10.55
	6H	9.01	9.99	9.42	10.36	10.75	9.01	9.99	9.42	10.36	10.75
	8H	9.10	10.03	9.53	10.42	10.83	9.10	10.03	9.53	10.42	10.83
	12H	9.16	10.04	9.59	10.43	10.86	9.16	10.04	9.59	10.43	10.86
4H	2H	7.73	8.80	8.14	9.15	9.54	7.73	8.80	8.14	9.15	9.54
	3H	8.83	9.70	9.25	10.11	10.51	8.83	9.70	9.25	10.11	10.51
	4H	9.31	10.08	9.74	10.50	10.95	9.31	10.08	9.74	10.50	10.95
	6H	9.69	10.36	10.15	10.81	11.27	9.69	10.36	10.15	10.81	11.27
	8H	9.83	10.45	10.30	10.90	11.37	9.83	10.45	10.30	10.90	11.37
	12H	9.92	10.48	10.41	10.96	11.43	9.92	10.48	10.41	10.96	11.43
8H	4H	9.44	10.06	9.91	10.51	10.98	9.44	10.06	9.91	10.51	10.98
	6H	9.93	10.44	10.43	10.94	11.42	9.93	10.44	10.43	10.94	11.42
	8H	10.13	10.60	10.66	11.11	11.60	10.13	10.60	10.66	11.11	11.60
	12H	10.30	10.71	10.82	11.20	11.78	10.30	10.71	10.82	11.20	11.78
12H	4H	9.43	9.98	9.92	10.47	10.94	9.43	9.98	9.92	10.47	10.94
	6H	9.94	10.40	10.47	10.92	11.41	9.94	10.40	10.47	10.92	11.41
	8H	10.20	10.61	10.72	11.11	11.68	10.20	10.61	10.72	11.11	11.68