

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: P867209

Luminaire Tested: PRLX-2004-L-927-32L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867209  
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-927-32L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, BELL WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

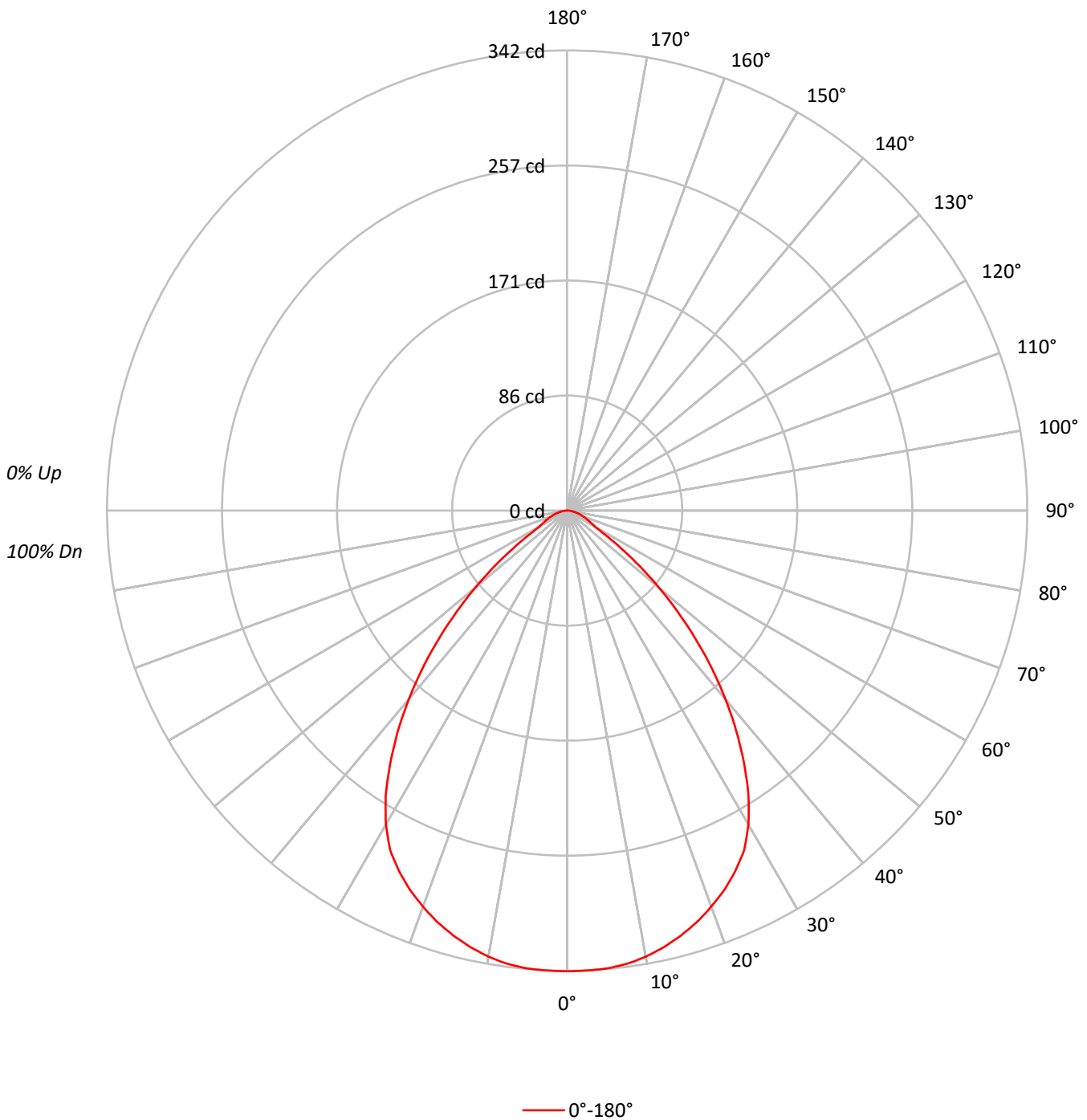
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 581.4 lumens  
Efficiency: N/A  
Efficacy: 22.3 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): 26.1  
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	58
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	51	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°	1689
5°	1692
10°	1687
15°	1670
20°	1644
25°	1609
30°	1535
35°	1380
40°	1180
45°	943
50°	685
55°	420
60°	237
65°	202
70°	179
75°	162
80°	148
85°	130

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 943 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.4	5.6
10°-20°	92.1	15.8
20°-30°	135.6	23.3
30°-40°	142.3	24.5
40°-50°	103.9	17.9
50°-60°	45.8	7.9
60°-70°	17.4	3.0
70°-80°	9.0	1.6
80°-90°	2.7	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°	260.2	44.8
0°-40°	402.5	69.2
0°-60°	552.3	95.0
0°-90°	581.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	581.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	342	
5°	342	32
15°	327	92
25°	296	136
35°	229	142
45°	135	104
55°	49	46
65°	17	17
75°	8	9
85°	2	3
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	342.4
2.5°	342.1
5°	341.6
7.5°	339.8
10°	336.7
12.5°	332.3
15°	326.9
17.5°	320.7
20°	313.2
22.5°	305.2
25°	295.6
27.5°	284.8
30°	269.5
32.5°	250.9
35°	229.2
37.5°	206.7
40°	183.2
42.5°	159.2
45°	135.2
47.5°	111.4
50°	89.2
52.5°	68.2
55°	48.8
57.5°	33.1
60°	24.0
62.5°	20.4
65°	17.3
67.5°	14.7
70°	12.4
72.5°	10.3
75°	8.5
77.5°	6.7
80°	5.2
82.5°	3.9
85°	2.3
87.5°	1.0
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	4.66	5.96	5.02	6.27	6.59	4.66	5.96	5.02	6.27	6.59
	3H	5.54	6.69	5.92	7.02	7.38	5.54	6.69	5.92	7.02	7.38
	4H	5.89	6.96	6.29	7.31	7.69	5.89	6.96	6.29	7.31	7.69
	6H	6.15	7.13	6.56	7.50	7.90	6.15	7.13	6.56	7.50	7.90
	8H	6.24	7.17	6.68	7.56	7.97	6.24	7.17	6.68	7.56	7.97
	12H	6.30	7.19	6.73	7.57	8.00	6.30	7.19	6.73	7.57	8.00
4H	2H	4.88	5.95	5.29	6.30	6.69	4.88	5.95	5.29	6.30	6.69
	3H	5.98	6.85	6.39	7.25	7.66	5.98	6.85	6.39	7.25	7.66
	4H	6.45	7.22	6.88	7.64	8.09	6.45	7.22	6.88	7.64	8.09
	6H	6.83	7.50	7.30	7.95	8.42	6.83	7.50	7.30	7.95	8.42
	8H	6.97	7.60	7.44	8.04	8.52	6.97	7.60	7.44	8.04	8.52
	12H	7.07	7.62	7.55	8.10	8.58	7.07	7.62	7.55	8.10	8.58
8H	4H	6.58	7.21	7.05	7.65	8.12	6.58	7.21	7.05	7.65	8.12
	6H	7.07	7.58	7.57	8.08	8.56	7.07	7.58	7.57	8.08	8.56
	8H	7.28	7.74	7.80	8.26	8.75	7.28	7.74	7.80	8.26	8.75
	12H	7.44	7.85	7.96	8.35	8.92	7.44	7.85	7.96	8.35	8.92
12H	4H	6.57	7.13	7.06	7.61	8.08	6.57	7.13	7.06	7.61	8.08
	6H	7.08	7.55	7.61	8.06	8.55	7.08	7.55	7.61	8.06	8.55
	8H	7.35	7.76	7.86	8.25	8.82	7.35	7.76	7.86	8.25	8.82