

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: P867398

Luminaire Tested: PRLX-2004-L-940-32L-L-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867398  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-86)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2004-L-940-32L-L-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
BELL WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

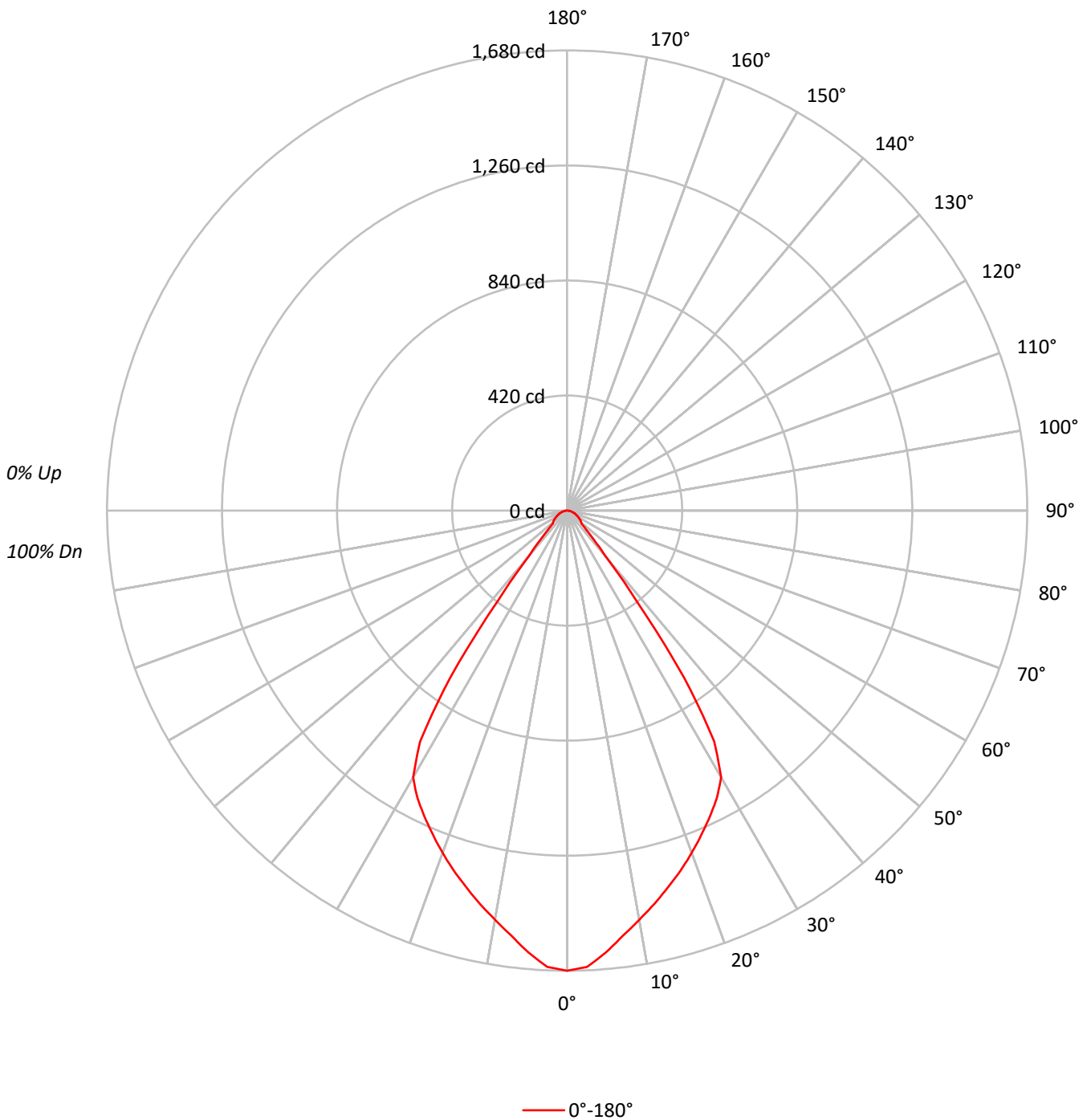
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1751.9 lumens  
Efficiency: N/A  
Efficacy: 67.1 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.1  
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: 0.333 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	113	110	107	104	110	108	105	103	103	101	100		100	98	97		96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	101	94	88	84	99	92	87	83	89	85	82		87	83	80		85	82	79	77
4	95	87	81	76	93	86	80	76	83	79	75		81	77	74		79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75	71	68	66
6	85	75	69	64	83	74	68	64	73	68	64		71	67	63		70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55		63	58	55		62	58	54	53
9	72	62	56	51	71	62	55	51	61	55	51		60	55	51		59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48		56	51	48		56	51	48	46

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

	0°
0°	8289
5°	8019
10°	7600
15°	7270
20°	6981
25°	6709
30°	6406
35°	4487
40°	1412
45°	684
50°	510
55°	493
60°	459
65°	425
70°	395
75°	370
80°	347
85°	323

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 684 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.2	8.6
10°-20°	400.9	22.9
20°-30°	567.0	32.4
30°-40°	431.8	24.6
40°-50°	86.8	5.0
50°-60°	50.9	2.9
60°-70°	36.2	2.1
70°-80°	20.7	1.2
80°-90°	6.4	0.4
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°	1119.2	63.9
0°-40°	1550.9	88.5
0°-60°	1688.7	96.4
0°-90°	1751.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1751.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1680	
5°	1619	151
15°	1423	401
25°	1232	567
35°	745	432
45°	98	87
55°	57	51
65°	36	36
75°	19	21
85°	6	6
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1680.1
2.5°	1667.5
5°	1619.2
7.5°	1564.9
10°	1516.9
12.5°	1470.7
15°	1423.3
17.5°	1377.9
20°	1329.6
22.5°	1280.7
25°	1232.4
27.5°	1183.5
30°	1124.4
32.5°	999.5
35°	745.0
37.5°	411.9
40°	219.2
42.5°	145.0
45°	98.1
47.5°	70.7
50°	66.5
52.5°	62.3
55°	57.3
57.5°	51.6
60°	46.5
62.5°	41.2
65°	36.4
67.5°	31.9
70°	27.4
72.5°	23.3
75°	19.4
77.5°	15.8
80°	12.2
82.5°	8.9
85°	5.7
87.5°	2.7
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	4.32	5.37	4.69	5.68	6.00	4.32	5.37	4.69	5.68	6.00
	3H	5.88	6.81	6.26	7.14	7.51	5.88	6.81	6.26	7.14	7.51
	4H	6.47	7.34	6.88	7.69	8.08	6.47	7.34	6.88	7.69	8.08
	6H	6.93	7.72	7.35	8.09	8.49	6.93	7.72	7.35	8.09	8.49
	8H	7.08	7.83	7.52	8.22	8.63	7.08	7.83	7.52	8.22	8.63
	12H	7.18	7.89	7.62	8.28	8.71	7.18	7.89	7.62	8.28	8.71
4H	2H	4.78	5.65	5.19	6.00	6.39	4.78	5.65	5.19	6.00	6.39
	3H	6.56	7.26	6.97	7.67	8.08	6.56	7.26	6.97	7.67	8.08
	4H	7.27	7.90	7.71	8.33	8.77	7.27	7.90	7.71	8.33	8.77
	6H	7.86	8.40	8.33	8.85	9.32	7.86	8.40	8.33	8.85	9.32
	8H	8.06	8.56	8.53	9.01	9.49	8.06	8.56	8.53	9.01	9.49
	12H	8.20	8.64	8.69	9.13	9.61	8.20	8.64	8.69	9.13	9.61
8H	4H	7.49	8.00	7.97	8.45	8.92	7.49	8.00	7.97	8.45	8.92
	6H	8.22	8.62	8.73	9.12	9.61	8.22	8.62	8.73	9.12	9.61
	8H	8.50	8.86	9.03	9.38	9.88	8.50	8.86	9.03	9.38	9.88
	12H	8.74	9.05	9.26	9.55	10.13	8.74	9.05	9.26	9.55	10.13
12H	4H	7.50	7.93	7.99	8.42	8.90	7.50	7.93	7.99	8.42	8.90
	6H	8.25	8.61	8.79	9.13	9.63	8.25	8.61	8.79	9.13	9.63
	8H	8.60	8.91	9.12	9.41	9.99	8.60	8.91	9.12	9.41	9.99