

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: P866777

Luminaire Tested: PRLX-2001-L-930-67L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-L-930-67L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

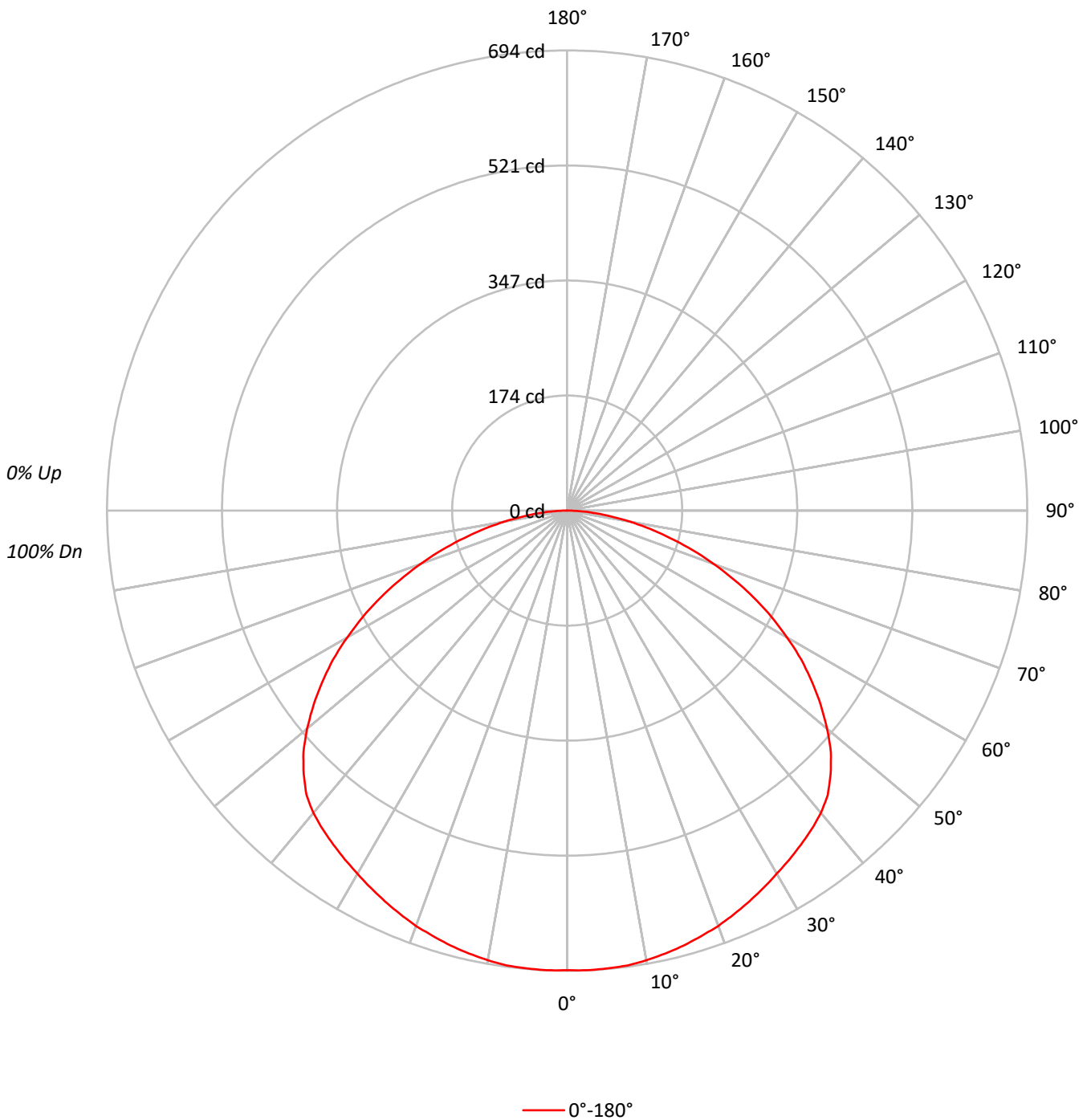
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2304.1 lumens  
Efficiency: N/A  
Efficacy: 45.7 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51  
Luminous Opening: Circular (Dia: 1.58' 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: 0.333 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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	40	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		34	28	24	22

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

	0°
0°	3790
5°	3805
10°	3823
15°	3844
20°	3878
25°	3921
30°	3992
35°	4103
40°	4250
45°	4344
50°	4354
55°	4299
60°	4191
65°	4017
70°	3755
75°	3411
80°	3025
85°	2459

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 4367 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.0	2.9
10°-20°	192.0	8.3
20°-30°	300.4	13.0
30°-40°	385.6	16.7
40°-50°	432.2	18.8
50°-60°	402.5	17.5
60°-70°	306.8	13.3
70°-80°	172.3	7.5
80°-90°	46.2	2.0
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°	558.4	24.2
0°-40°	944.0	41.0
0°-60°	1778.8	77.2
0°-90°	2304.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2304.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	693	
5°	693	66
15°	679	192
25°	650	300
35°	615	386
45°	562	432
55°	451	403
65°	310	307
75°	162	172
85°	39	46
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	693.3
2.5°	693.9
5°	693.3
7.5°	692.1
10°	688.7
12.5°	684.2
15°	679.1
17.5°	672.8
20°	666.6
22.5°	658.6
25°	650.1
27.5°	641.5
30°	632.4
32.5°	623.9
35°	614.8
37.5°	605.7
40°	595.5
42.5°	581.8
45°	561.9
47.5°	539.7
50°	511.9
52.5°	482.3
55°	451.0
57.5°	418.6
60°	383.3
62.5°	347.5
65°	310.5
67.5°	273.0
70°	234.9
72.5°	198.5
75°	161.5
77.5°	128.0
80°	96.1
82.5°	65.4
85°	39.2
87.5°	17.1
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	17.47	19.16	17.84	19.47	19.79	17.47	19.16	17.84	19.47	19.79
	3H	19.26	20.78	19.63	21.11	21.47	19.26	20.78	19.63	21.11	21.47
	4H	19.90	21.34	20.30	21.69	22.06	19.90	21.34	20.30	21.69	22.06
	6H	20.37	21.71	20.78	22.07	22.46	20.37	21.71	20.78	22.07	22.46
	8H	20.51	21.79	20.93	22.18	22.58	20.51	21.79	20.93	22.18	22.58
	12H	20.60	21.83	21.03	22.21	22.64	20.60	21.83	21.03	22.21	22.64
4H	2H	18.11	19.55	18.51	19.90	20.28	18.11	19.55	18.51	19.90	20.28
	3H	20.11	21.32	20.52	21.72	22.12	20.11	21.32	20.52	21.72	22.12
	4H	20.88	21.98	21.31	22.39	22.82	20.88	21.98	21.31	22.39	22.82
	6H	21.47	22.43	21.92	22.87	23.32	21.47	22.43	21.92	22.87	23.32
	8H	21.66	22.56	22.12	23.00	23.46	21.66	22.56	22.12	23.00	23.46
	12H	21.79	22.60	22.27	23.08	23.54	21.79	22.60	22.27	23.08	23.54
8H	4H	21.19	22.09	21.64	22.53	22.99	21.19	22.09	21.64	22.53	22.99
	6H	21.89	22.64	22.38	23.13	23.60	21.89	22.64	22.38	23.13	23.60
	8H	22.15	22.82	22.66	23.33	23.81	22.15	22.82	22.66	23.33	23.81
	12H	22.35	22.94	22.85	23.43	23.99	22.35	22.94	22.85	23.43	23.99
12H	4H	21.22	22.03	21.70	22.50	22.97	21.22	22.03	21.70	22.50	22.97
	6H	21.95	22.62	22.45	23.12	23.61	21.95	22.62	22.45	23.12	23.61
	8H	22.26	22.85	22.76	23.34	23.90	22.26	22.85	22.76	23.34	23.90