

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: P866793

Luminaire Tested: PRLX-2001-L-935-100L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866793  
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-935-100L-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 6  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

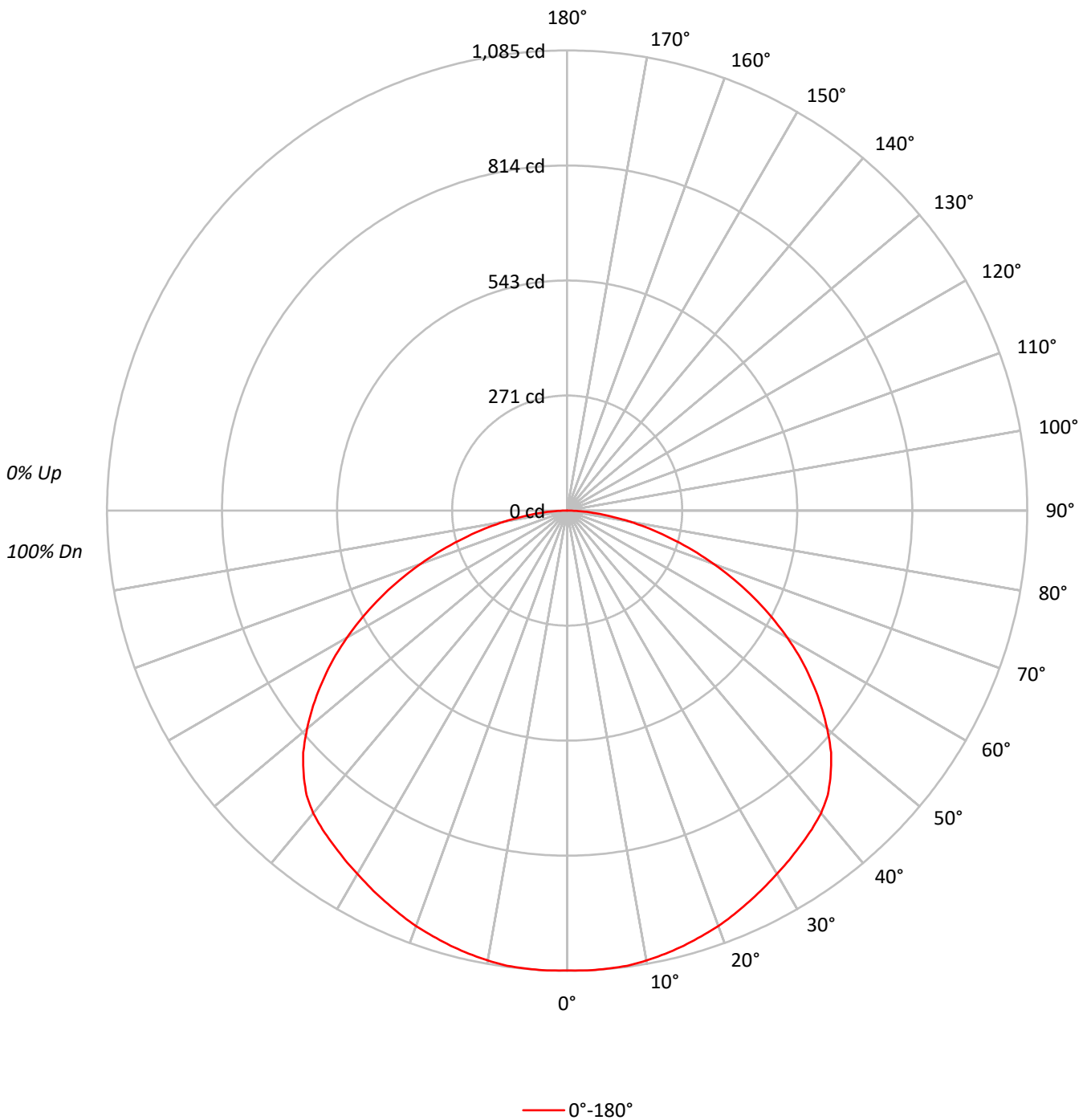
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3603.9 lumens  
Efficiency: N/A  
Efficacy: 45.4 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): 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: 0.333 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°	5928
5°	5951
10°	5980
15°	6012
20°	6066
25°	6133
30°	6244
35°	6418
40°	6647
45°	6795
50°	6809
55°	6723
60°	6556
65°	6283
70°	5873
75°	5335
80°	4732
85°	3851

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 6831 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.3	2.9
10°-20°	300.3	8.3
20°-30°	469.8	13.0
30°-40°	603.2	16.7
40°-50°	676.1	18.8
50°-60°	629.6	17.5
60°-70°	479.9	13.3
70°-80°	269.5	7.5
80°-90°	72.2	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°	873.4	24.2
0°-40°	1476.6	41.0
0°-60°	2782.3	77.2
0°-90°	3603.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3603.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1084	
5°	1084	103
15°	1062	300
25°	1017	470
35°	962	603
45°	879	676
55°	705	630
65°	486	480
75°	253	269
85°	61	72
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1084.4
2.5°	1085.3
5°	1084.4
7.5°	1082.6
10°	1077.3
12.5°	1070.2
15°	1062.2
17.5°	1052.4
20°	1042.6
22.5°	1030.1
25°	1016.8
27.5°	1003.4
30°	989.2
32.5°	975.9
35°	961.6
37.5°	947.4
40°	931.4
42.5°	910.0
45°	878.9
47.5°	844.2
50°	800.6
52.5°	754.4
55°	705.4
57.5°	654.7
60°	599.6
62.5°	543.5
65°	485.7
67.5°	427.0
70°	367.4
72.5°	310.5
75°	252.6
77.5°	200.2
80°	150.3
82.5°	102.3
85°	61.4
87.5°	26.7
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	19.02	20.71	19.39	21.03	21.34	19.02	20.71	19.39	21.03	21.34
	3H	20.81	22.34	21.19	22.66	23.02	20.81	22.34	21.19	22.66	23.02
	4H	21.45	22.90	21.85	23.24	23.62	21.45	22.90	21.85	23.24	23.62
	6H	21.92	23.26	22.33	23.62	24.01	21.92	23.26	22.33	23.62	24.01
	8H	22.06	23.34	22.49	23.73	24.13	22.06	23.34	22.49	23.73	24.13
	12H	22.16	23.38	22.59	23.76	24.19	22.16	23.38	22.59	23.76	24.19
4H	2H	19.67	21.11	20.06	21.46	21.83	19.67	21.11	20.06	21.46	21.83
	3H	21.66	22.88	22.07	23.27	23.67	21.66	22.88	22.07	23.27	23.67
	4H	22.43	23.53	22.86	23.94	24.38	22.43	23.53	22.86	23.94	24.38
	6H	23.02	23.99	23.48	24.42	24.88	23.02	23.99	23.48	24.42	24.88
	8H	23.21	24.11	23.67	24.55	25.02	23.21	24.11	23.67	24.55	25.02
	12H	23.35	24.16	23.83	24.63	25.10	23.35	24.16	23.83	24.63	25.10
8H	4H	22.74	23.64	23.20	24.08	24.54	22.74	23.64	23.20	24.08	24.54
	6H	23.45	24.20	23.94	24.68	25.16	23.45	24.20	23.94	24.68	25.16
	8H	23.70	24.37	24.21	24.88	25.36	23.70	24.37	24.21	24.88	25.36
	12H	23.90	24.50	24.41	24.99	25.55	23.90	24.50	24.41	24.99	25.55
12H	4H	22.77	23.58	23.25	24.06	24.53	22.77	23.58	23.25	24.06	24.53
	6H	23.50	24.17	24.01	24.68	25.16	23.50	24.17	24.01	24.68	25.16
	8H	23.81	24.41	24.32	24.89	25.45	23.81	24.41	24.32	24.89	25.45