

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: P866850

Luminaire Tested: PRLX-2001-L-935-83L-G-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866850  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2001-L-935-83L-G-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

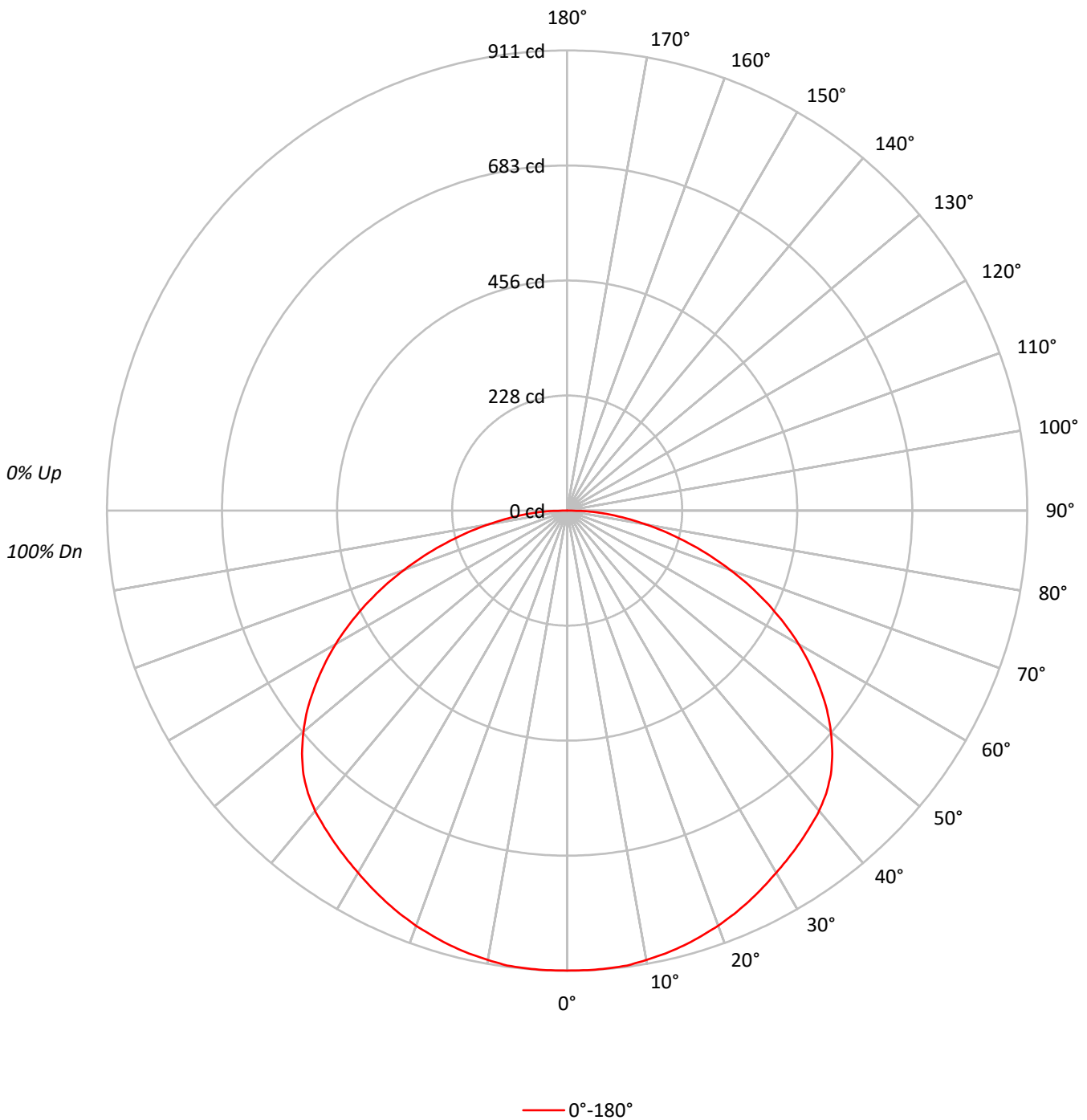
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3134.1 lumens  
Efficiency: N/A  
Efficacy: 48.6 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 64.5  
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: 0.5 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	108	103	98	94	105	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

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

	0°
0°	4979
5°	4994
10°	5014
15°	5046
20°	5088
25°	5146
30°	5227
35°	5358
40°	5540
45°	5710
50°	5798
55°	5822
60°	5790
65°	5685
70°	5491
75°	5257
80°	4999
85°	4955

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 5824 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.7	2.8
10°-20°	252.0	8.0
20°-30°	393.8	12.6
30°-40°	503.5	16.1
40°-50°	568.0	18.1
50°-60°	545.0	17.4
60°-70°	434.2	13.9
70°-80°	263.6	8.4
80°-90°	87.3	2.8
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°	732.5	23.4
0°-40°	1236.0	39.4
0°-60°	2349.1	75.0
0°-90°	3134.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3134.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	911	
5°	910	87
15°	892	252
25°	853	394
35°	803	504
45°	739	568
55°	611	545
65°	440	434
75°	249	264
85°	79	87
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	910.7
2.5°	910.7
5°	910.0
7.5°	908.5
10°	903.3
12.5°	898.1
15°	891.5
17.5°	883.4
20°	874.5
22.5°	864.2
25°	853.1
27.5°	840.5
30°	828.0
32.5°	815.4
35°	802.9
37.5°	789.6
40°	776.3
42.5°	759.3
45°	738.6
47.5°	712.0
50°	681.7
52.5°	648.5
55°	610.8
57.5°	570.9
60°	529.6
62.5°	485.3
65°	439.5
67.5°	392.9
70°	343.5
72.5°	296.2
75°	248.9
77.5°	203.1
80°	158.8
82.5°	117.4
85°	79.0
87.5°	45.1
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	18.53	20.24	18.90	20.56	20.87	18.53	20.24	18.90	20.56	20.87
	3H	20.50	22.05	20.87	22.38	22.73	20.50	22.05	20.87	22.38	22.73
	4H	21.25	22.72	21.65	23.07	23.44	21.25	22.72	21.65	23.07	23.44
	6H	21.85	23.22	22.26	23.58	23.97	21.85	23.22	22.26	23.58	23.97
	8H	22.07	23.38	22.49	23.77	24.16	22.07	23.38	22.49	23.77	24.16
	12H	22.24	23.50	22.67	23.88	24.31	22.24	23.50	22.67	23.88	24.31
4H	2H	19.23	20.69	19.62	21.04	21.41	19.23	20.69	19.62	21.04	21.41
	3H	21.41	22.65	21.82	23.04	23.44	21.41	22.65	21.82	23.04	23.44
	4H	22.30	23.43	22.73	23.84	24.28	22.30	23.43	22.73	23.84	24.28
	6H	23.04	24.03	23.49	24.47	24.92	23.04	24.03	23.49	24.47	24.92
	8H	23.32	24.25	23.78	24.69	25.15	23.32	24.25	23.78	24.69	25.15
	12H	23.55	24.39	24.03	24.86	25.33	23.55	24.39	24.03	24.86	25.33
8H	4H	22.67	23.60	23.13	24.04	24.50	22.67	23.60	23.13	24.04	24.50
	6H	23.55	24.33	24.04	24.81	25.29	23.55	24.33	24.04	24.81	25.29
	8H	23.92	24.62	24.42	25.12	25.60	23.92	24.62	24.42	25.12	25.60
	12H	24.25	24.87	24.75	25.36	25.91	24.25	24.87	24.75	25.36	25.91
12H	4H	22.72	23.56	23.20	24.03	24.50	22.72	23.56	23.20	24.03	24.50
	6H	23.63	24.33	24.14	24.84	25.32	23.63	24.33	24.14	24.84	25.32
	8H	24.07	24.69	24.57	25.18	25.74	24.07	24.69	24.57	25.18	25.74