

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: P865823

Luminaire Tested: PRLX-2004-S-935-10L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-S-935-10L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

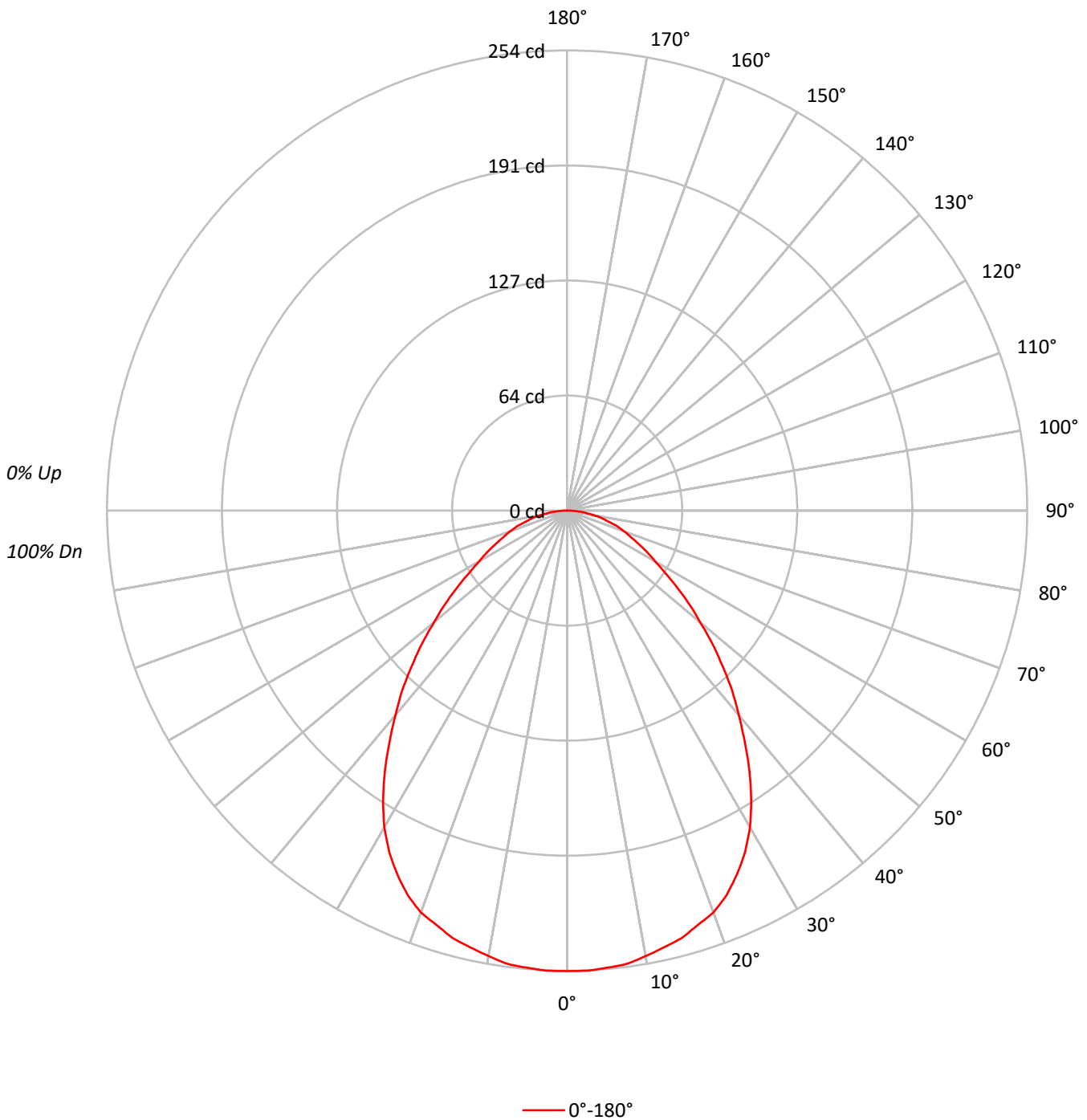
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 541.4 lumens  
Efficiency: N/A  
Efficacy: 51.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 10.5  
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	50	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

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

	0°
0°	4146
5°	4147
10°	4135
15°	4125
20°	4098
25°	3990
30°	3801
35°	3494
40°	3140
45°	2796
50°	2433
55°	2110
60°	1830
65°	1675
70°	1598
75°	1481
80°	1446
85°	1347

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2796 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.1	4.4
10°-20°	68.8	12.7
20°-30°	101.7	18.8
30°-40°	109.3	20.2
40°-50°	93.6	17.3
50°-60°	66.8	12.3
60°-70°	43.5	8.0
70°-80°	25.5	4.7
80°-90°	8.0	1.5
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°	194.6	35.9
0°-40°	303.9	56.1
0°-60°	464.3	85.8
0°-90°	541.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	541.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	254	
5°	253	24
15°	244	69
25°	222	102
35°	176	109
45°	121	94
55°	74	67
65°	43	44
75°	24	26
85°	7	8
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	254.2
2.5°	254.2
5°	253.3
7.5°	252.4
10°	249.7
12.5°	247.0
15°	244.3
17.5°	239.8
20°	236.1
22.5°	229.8
25°	221.7
27.5°	212.6
30°	201.8
32.5°	189.1
35°	175.5
37.5°	161.0
40°	147.5
42.5°	134.8
45°	121.2
47.5°	108.6
50°	95.9
52.5°	85.0
55°	74.2
57.5°	64.2
60°	56.1
62.5°	49.8
65°	43.4
67.5°	38.0
70°	33.5
72.5°	29.0
75°	23.5
77.5°	19.9
80°	15.4
82.5°	10.9
85°	7.2
87.5°	3.6
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	13.50	14.99	13.87	15.31	15.62	13.50	14.99	13.87	15.31	15.62
	3H	15.03	16.37	15.41	16.70	17.06	15.03	16.37	15.41	16.70	17.06
	4H	15.65	16.91	16.05	17.26	17.64	15.65	16.91	16.05	17.26	17.64
	6H	16.17	17.33	16.58	17.70	18.09	16.17	17.33	16.58	17.70	18.09
	8H	16.34	17.45	16.77	17.84	18.24	16.34	17.45	16.77	17.84	18.24
	12H	16.47	17.53	16.90	17.91	18.34	16.47	17.53	16.90	17.91	18.34
4H	2H	14.00	15.25	14.40	15.60	15.98	14.00	15.25	14.40	15.60	15.98
	3H	15.79	16.84	16.20	17.24	17.64	15.79	16.84	16.20	17.24	17.64
	4H	16.54	17.48	16.97	17.90	18.34	16.54	17.48	16.97	17.90	18.34
	6H	17.21	18.02	17.66	18.47	18.93	17.21	18.02	17.66	18.47	18.93
	8H	17.43	18.20	17.89	18.64	19.11	17.43	18.20	17.89	18.64	19.11
	12H	17.61	18.29	18.09	18.77	19.24	17.61	18.29	18.09	18.77	19.24
8H	4H	16.83	17.60	17.30	18.04	18.51	16.83	17.60	17.30	18.04	18.51
	6H	17.63	18.27	18.13	18.76	19.23	17.63	18.27	18.13	18.76	19.23
	8H	17.94	18.51	18.45	19.02	19.51	17.94	18.51	18.45	19.02	19.51
	12H	18.20	18.71	18.71	19.20	19.76	18.20	18.71	18.71	19.20	19.76
12H	4H	16.86	17.55	17.35	18.03	18.50	16.86	17.55	17.35	18.03	18.50
	6H	17.69	18.26	18.20	18.77	19.26	17.69	18.26	18.20	18.77	19.26
	8H	18.06	18.56	18.57	19.05	19.62	18.06	18.56	18.57	19.05	19.62