

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: P865743

Luminaire Tested: PRLX-2004-S-927-10L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865743  
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-927-10L-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

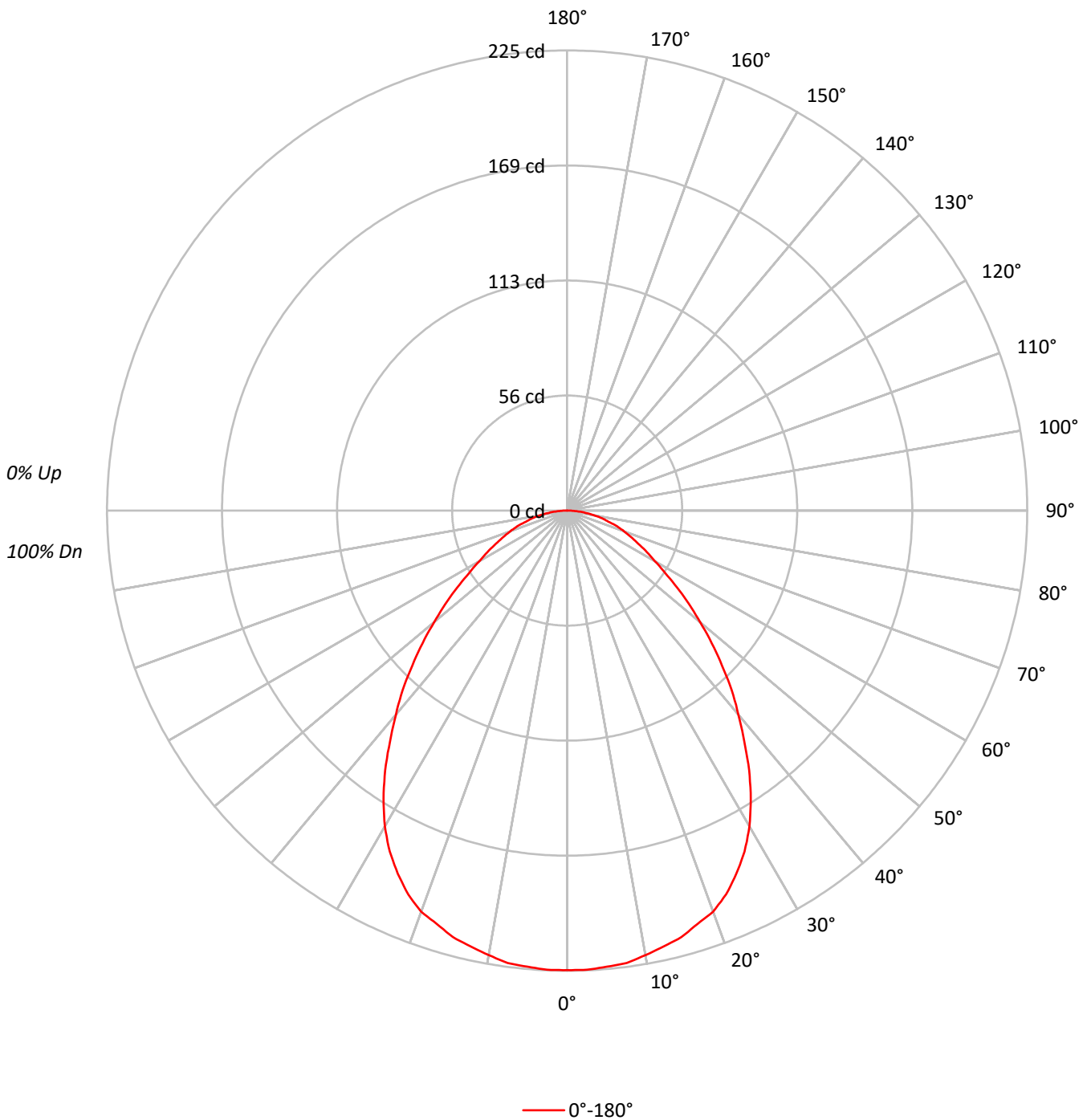
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 478.5 lumens  
Efficiency: N/A  
Efficacy: 45.6 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	42	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°	3665
5°	3666
10°	3655
15°	3646
20°	3622
25°	3525
30°	3358
35°	3088
40°	2774
45°	2470
50°	2152
55°	1865
60°	1618
65°	1482
70°	1412
75°	1311
80°	1277
85°	1198

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2470 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.3	4.4
10°-20°	60.8	12.7
20°-30°	89.9	18.8
30°-40°	96.6	20.2
40°-50°	82.7	17.3
50°-60°	59.1	12.3
60°-70°	38.5	8.0
70°-80°	22.6	4.7
80°-90°	7.1	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°	172.0	35.9
0°-40°	268.6	56.1
0°-60°	410.4	85.8
0°-90°	478.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	478.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	225	
5°	224	21
15°	216	61
25°	196	90
35°	155	97
45°	107	83
55°	66	59
65°	38	38
75°	21	23
85°	6	7
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	224.7
2.5°	224.7
5°	223.9
7.5°	223.1
10°	220.7
12.5°	218.3
15°	215.9
17.5°	211.9
20°	208.7
22.5°	203.1
25°	195.9
27.5°	187.9
30°	178.3
32.5°	167.1
35°	155.1
37.5°	142.3
40°	130.3
42.5°	119.1
45°	107.1
47.5°	95.9
50°	84.8
52.5°	75.2
55°	65.6
57.5°	56.8
60°	49.6
62.5°	44.0
65°	38.4
67.5°	33.6
70°	29.6
72.5°	25.6
75°	20.8
77.5°	17.6
80°	13.6
82.5°	9.6
85°	6.4
87.5°	3.2
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	13.08	14.57	13.44	14.88	15.20	13.08	14.57	13.44	14.88	15.20
	3H	14.61	15.95	14.99	16.28	16.64	14.61	15.95	14.99	16.28	16.64
	4H	15.23	16.48	15.63	16.83	17.21	15.23	16.48	15.63	16.83	17.21
	6H	15.75	16.91	16.16	17.27	17.67	15.75	16.91	16.16	17.27	17.67
	8H	15.92	17.02	16.34	17.41	17.81	15.92	17.02	16.34	17.41	17.81
	12H	16.04	17.10	16.47	17.48	17.91	16.04	17.10	16.47	17.48	17.91
4H	2H	13.58	14.83	13.98	15.18	15.56	13.58	14.83	13.98	15.18	15.56
	3H	15.37	16.41	15.78	16.81	17.21	15.37	16.41	15.78	16.81	17.21
	4H	16.12	17.06	16.55	17.47	17.91	16.12	17.06	16.55	17.47	17.91
	6H	16.78	17.60	17.24	18.04	18.50	16.78	17.60	17.24	18.04	18.50
	8H	17.00	17.77	17.47	18.21	18.68	17.00	17.77	17.47	18.21	18.68
	12H	17.18	17.86	17.66	18.34	18.81	17.18	17.86	17.66	18.34	18.81
8H	4H	16.41	17.17	16.87	17.62	18.09	16.41	17.17	16.87	17.62	18.09
	6H	17.21	17.84	17.70	18.33	18.81	17.21	17.84	17.70	18.33	18.81
	8H	17.51	18.08	18.02	18.59	19.08	17.51	18.08	18.02	18.59	19.08
	12H	17.77	18.28	18.28	18.77	19.34	17.77	18.28	18.28	18.77	19.34
12H	4H	16.44	17.12	16.92	17.60	18.07	16.44	17.12	16.92	17.60	18.07
	6H	17.26	17.83	17.78	18.34	18.83	17.26	17.83	17.78	18.34	18.83
	8H	17.63	18.13	18.14	18.62	19.19	17.63	18.13	18.14	18.62	19.19