

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: P865584

Luminaire Tested: PRLX-2002-S-927-10L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-S-927-10L-L-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

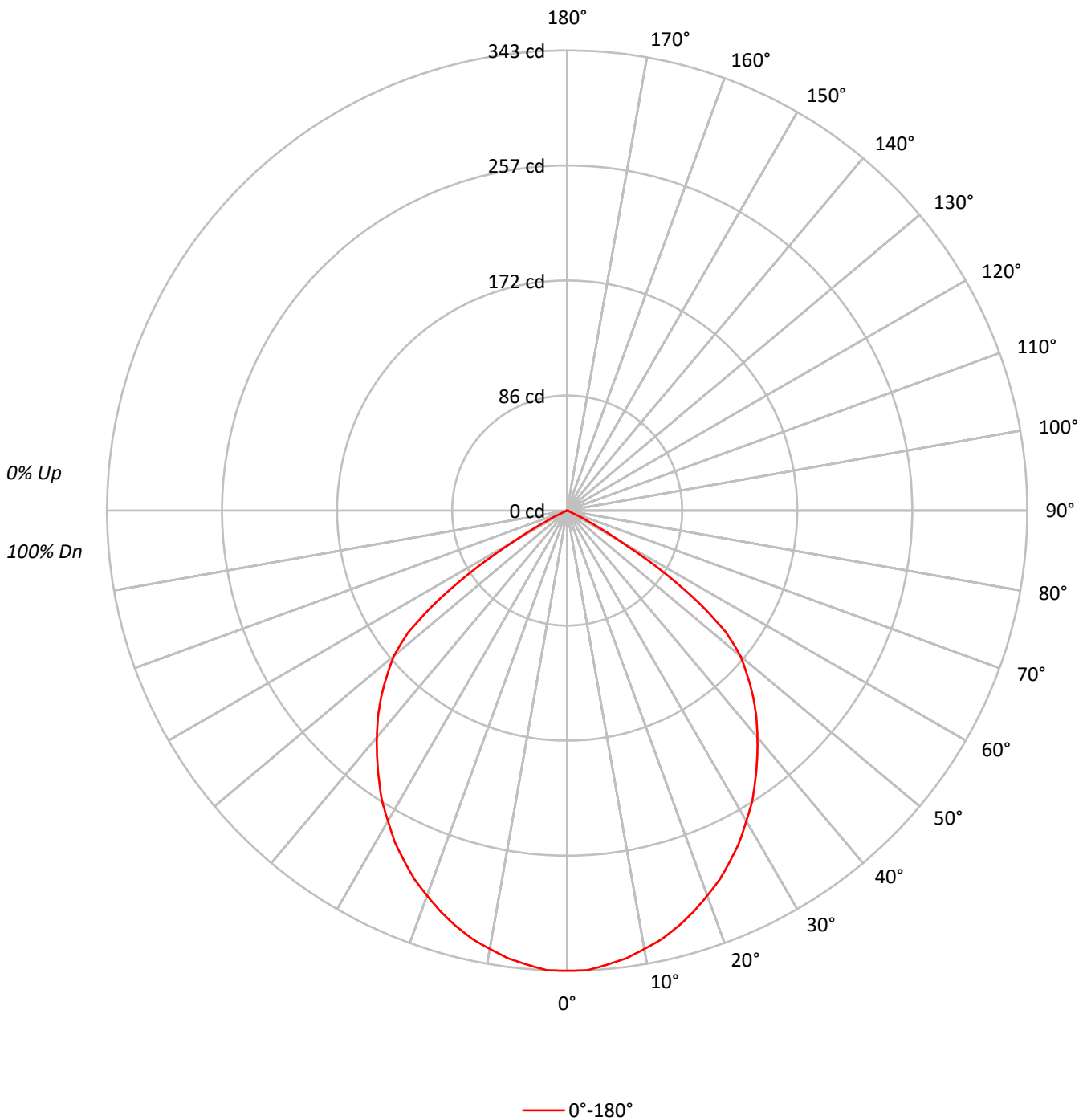
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 675.7 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28  
Luminous Opening: Circular (Dia: 0.85' 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: 0.333 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	112	108	105	102	109	106	103	101	102	100	97		98	96	95		95	93	92	90
2	104	98	92	88	101	96	91	87	92	88	85		89	86	83		86	84	81	79
3	96	88	81	76	94	86	80	75	84	78	74		81	77	73		79	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		71	67	63	62
5	83	72	64	58	81	71	64	58	69	62	58		67	61	57		65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34		44	38	34		43	38	34	32

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

	0°
0°	6443
5°	6407
10°	6329
15°	6235
20°	6105
25°	5965
30°	5793
35°	5611
40°	5412
45°	5204
50°	4930
55°	3927
60°	1713
65°	356
70°	44
75°	58
80°	87
85°	172

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5204 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.2	4.8
10°-20°	90.3	13.4
20°-30°	132.5	19.6
30°-40°	153.0	22.6
40°-50°	150.8	22.3
50°-60°	102.0	15.1
60°-70°	13.2	2.0
70°-80°	0.8	0.1
80°-90°	0.8	0.1
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°	255.0	37.7
0°-40°	408.0	60.4
0°-60°	660.9	97.8
0°-90°	675.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	675.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	343	
5°	340	32
15°	321	90
25°	288	133
35°	245	153
45°	196	151
55°	120	102
65°	8	13
75°	1	1
85°	1	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	343.0
2.5°	343.0
5°	339.8
7.5°	336.6
10°	331.8
12.5°	327.0
15°	320.6
17.5°	313.4
20°	305.4
22.5°	297.4
25°	287.8
27.5°	278.3
30°	267.1
32.5°	256.7
35°	244.7
37.5°	232.7
40°	220.7
42.5°	208.7
45°	195.9
47.5°	182.3
50°	168.7
52.5°	149.5
55°	119.9
57.5°	83.2
60°	45.6
62.5°	21.6
65°	8.0
67.5°	1.6
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.8
87.5°	0.8
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	14.96	16.36	15.33	16.68	16.99	14.96	16.36	15.33	16.68	16.99
	3H	14.84	16.07	15.22	16.40	16.77	14.84	16.07	15.22	16.40	16.77
	4H	14.78	15.92	15.18	16.27	16.65	14.78	15.92	15.18	16.27	16.65
	6H	14.71	15.75	15.12	16.12	16.51	14.71	15.75	15.12	16.12	16.51
	8H	14.67	15.66	15.09	16.05	16.45	14.67	15.66	15.09	16.05	16.45
	12H	14.63	15.58	15.06	15.96	16.39	14.63	15.58	15.06	15.96	16.39
4H	2H	14.80	15.94	15.20	16.29	16.67	14.80	15.94	15.20	16.29	16.67
	3H	14.68	15.60	15.09	16.00	16.40	14.68	15.60	15.09	16.00	16.40
	4H	14.60	15.41	15.03	15.83	16.27	14.60	15.41	15.03	15.83	16.27
	6H	14.52	15.22	14.99	15.67	16.14	14.52	15.22	14.99	15.67	16.14
	8H	14.47	15.12	14.94	15.57	16.04	14.47	15.12	14.94	15.57	16.04
	12H	14.43	15.01	14.91	15.49	15.96	14.43	15.01	14.91	15.49	15.96
8H	4H	14.46	15.12	14.93	15.57	16.04	14.46	15.12	14.93	15.57	16.04
	6H	14.36	14.90	14.86	15.40	15.88	14.36	14.90	14.86	15.40	15.88
	8H	14.30	14.79	14.82	15.31	15.80	14.30	14.79	14.82	15.31	15.80
	12H	14.26	14.70	14.77	15.19	15.76	14.26	14.70	14.77	15.19	15.76
12H	4H	14.42	15.00	14.90	15.48	15.96	14.42	15.00	14.90	15.48	15.96
	6H	14.30	14.79	14.82	15.30	15.79	14.30	14.79	14.82	15.30	15.79
	8H	14.25	14.69	14.76	15.19	15.76	14.25	14.69	14.76	15.19	15.76