

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: P866955

Luminaire Tested: PRLX-2002-L-927-32L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-L-927-32L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

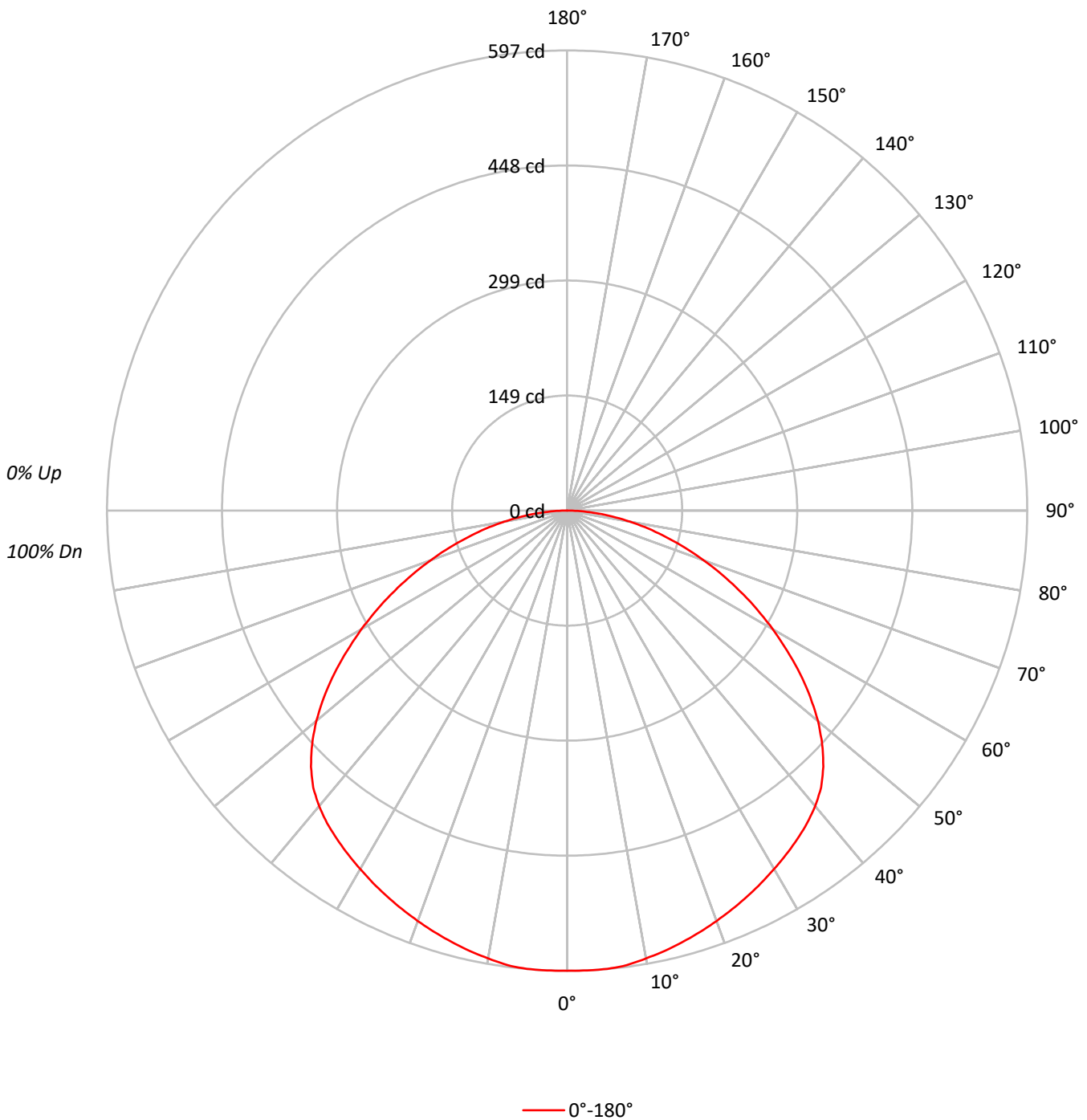
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1920.9 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.1  
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	94	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	24		35	29	24	23

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

	0°
0°	2945
5°	2956
10°	2956
15°	2959
20°	2975
25°	3008
30°	3059
35°	3135
40°	3224
45°	3280
50°	3261
55°	3174
60°	3042
65°	2887
70°	2713
75°	2532
80°	2350
85°	2095

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3280 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.8	3.0
10°-20°	163.8	8.5
20°-30°	255.2	13.3
30°-40°	326.2	17.0
40°-50°	361.1	18.8
50°-60°	329.1	17.1
60°-70°	245.2	12.8
70°-80°	141.5	7.4
80°-90°	42.0	2.2
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°	475.8	24.8
0°-40°	802.0	41.7
0°-60°	1492.2	77.7
0°-90°	1920.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1920.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	597	
5°	597	57
15°	579	164
25°	552	255
35°	520	326
45°	470	361
55°	369	329
65°	247	245
75°	133	142
85°	37	42
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	596.9
2.5°	597.2
5°	596.9
7.5°	594.9
10°	590.0
12.5°	585.1
15°	579.4
17.5°	573.2
20°	566.7
22.5°	559.7
25°	552.5
27.5°	545.0
30°	537.0
32.5°	529.0
35°	520.5
37.5°	511.4
40°	500.6
42.5°	487.6
45°	470.1
47.5°	448.9
50°	424.8
52.5°	397.7
55°	369.0
57.5°	338.5
60°	308.3
62.5°	277.8
65°	247.3
67.5°	217.8
70°	188.1
72.5°	160.5
75°	132.8
77.5°	108.0
80°	82.7
82.5°	58.9
85°	37.0
87.5°	17.1
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	16.28	17.96	16.65	18.27	18.59	16.28	17.96	16.65	18.27	18.59
	3H	18.03	19.55	18.41	19.87	20.23	18.03	19.55	18.41	19.87	20.23
	4H	18.69	20.13	19.09	20.47	20.85	18.69	20.13	19.09	20.47	20.85
	6H	19.21	20.54	19.62	20.91	21.30	19.21	20.54	19.62	20.91	21.30
	8H	19.39	20.66	19.81	21.05	21.44	19.39	20.66	19.81	21.05	21.44
	12H	19.51	20.73	19.94	21.11	21.54	19.51	20.73	19.94	21.11	21.54
4H	2H	16.90	18.33	17.30	18.68	19.05	16.90	18.33	17.30	18.68	19.05
	3H	18.87	20.08	19.28	20.47	20.87	18.87	20.08	19.28	20.47	20.87
	4H	19.67	20.76	20.10	21.18	21.61	19.67	20.76	20.10	21.18	21.61
	6H	20.33	21.28	20.78	21.72	22.18	20.33	21.28	20.78	21.72	22.18
	8H	20.55	21.45	21.01	21.89	22.35	20.55	21.45	21.01	21.89	22.35
	12H	20.73	21.53	21.21	22.01	22.48	20.73	21.53	21.21	22.01	22.48
8H	4H	20.00	20.89	20.45	21.33	21.80	20.00	20.89	20.45	21.33	21.80
	6H	20.78	21.53	21.27	22.01	22.49	20.78	21.53	21.27	22.01	22.49
	8H	21.08	21.75	21.59	22.26	22.74	21.08	21.75	21.59	22.26	22.74
	12H	21.34	21.93	21.84	22.42	22.98	21.34	21.93	21.84	22.42	22.98
12H	4H	20.04	20.84	20.51	21.32	21.78	20.04	20.84	20.51	21.32	21.78
	6H	20.84	21.52	21.35	22.02	22.50	20.84	21.52	21.35	22.02	22.50
	8H	21.21	21.80	21.72	22.29	22.85	21.21	21.80	21.72	22.29	22.85