

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: P866827

Luminaire Tested: PRLX-2001-L-935-32L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866827  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-935-32L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

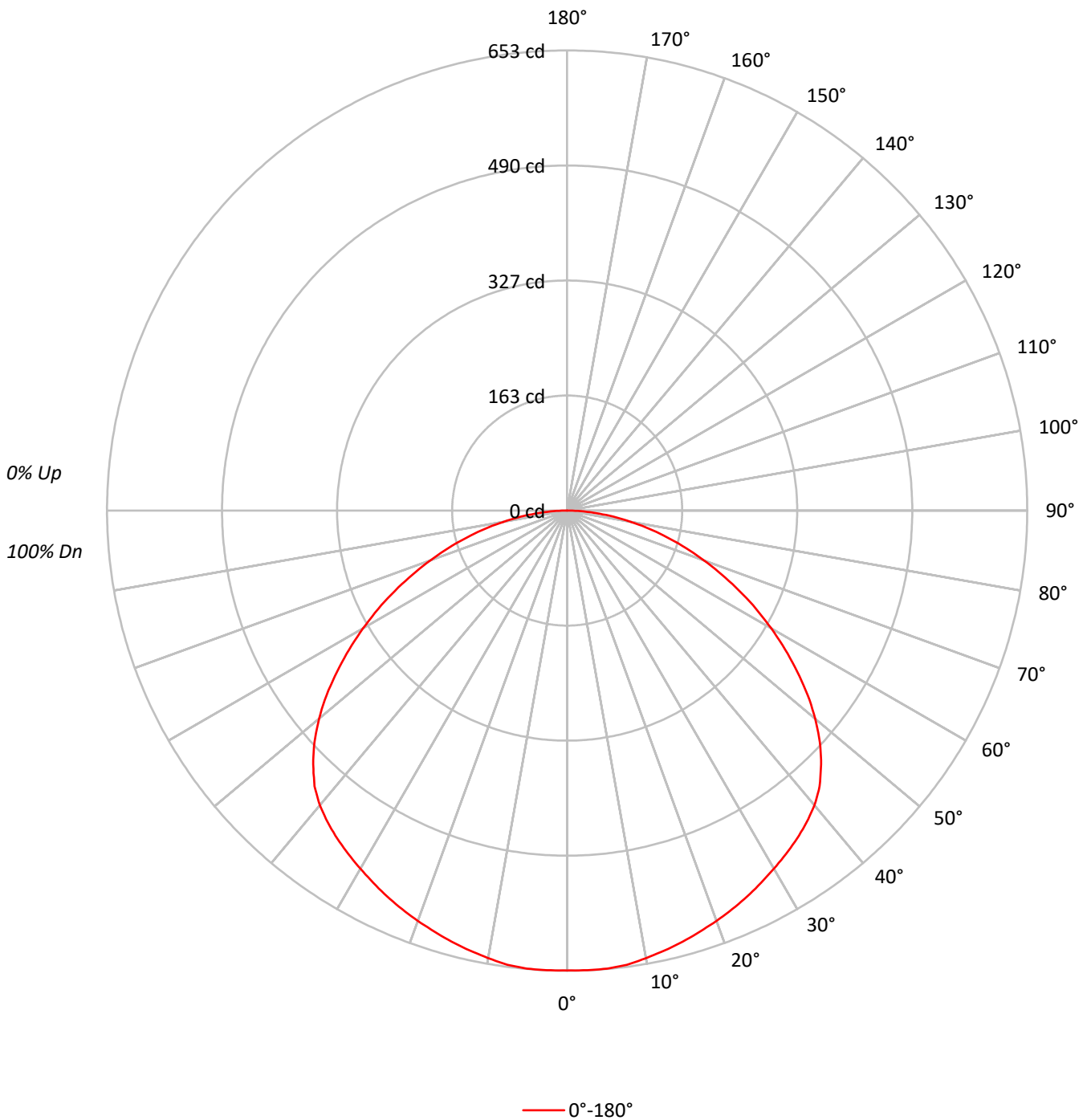
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2094.6 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48  
Luminous Opening: Circular (Dia: 1.58' 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	93	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	28	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	25		35	29	24	23

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

	0°
0°	3567
5°	3581
10°	3579
15°	3585
20°	3605
25°	3645
30°	3704
35°	3794
40°	3897
45°	3941
50°	3910
55°	3798
60°	3655
65°	3489
70°	3302
75°	3101
80°	2887
85°	2578

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3941 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	3.0
10°-20°	179.0	8.5
20°-30°	279.0	13.3
30°-40°	356.1	17.0
40°-50°	392.0	18.7
50°-60°	356.2	17.0
60°-70°	267.2	12.8
70°-80°	156.2	7.5
80°-90°	46.7	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°	520.1	24.8
0°-40°	876.3	41.8
0°-60°	1624.5	77.6
0°-90°	2094.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2094.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	652	
5°	652	62
15°	633	179
25°	604	279
35°	568	356
45°	510	392
55°	398	356
65°	270	267
75°	147	156
85°	41	47
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	652.5
2.5°	652.8
5°	652.5
7.5°	650.2
10°	644.8
12.5°	639.4
15°	633.4
17.5°	626.5
20°	619.7
22.5°	612.2
25°	604.2
27.5°	595.7
30°	586.8
32.5°	578.0
35°	568.5
37.5°	558.0
40°	546.0
42.5°	530.5
45°	509.7
47.5°	486.5
50°	459.7
52.5°	430.5
55°	398.5
57.5°	366.8
60°	334.3
62.5°	302.5
65°	269.7
67.5°	237.4
70°	206.6
72.5°	176.8
75°	146.8
77.5°	119.4
80°	91.7
82.5°	65.7
85°	41.1
87.5°	19.1
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	16.89	18.57	17.26	18.89	19.20	16.89	18.57	17.26	18.89	19.20
	3H	18.67	20.19	19.05	20.51	20.87	18.67	20.19	19.05	20.51	20.87
	4H	19.35	20.79	19.75	21.13	21.51	19.35	20.79	19.75	21.13	21.51
	6H	19.89	21.22	20.30	21.58	21.97	19.89	21.22	20.30	21.58	21.97
	8H	20.07	21.34	20.49	21.73	22.13	20.07	21.34	20.49	21.73	22.13
	12H	20.20	21.42	20.63	21.80	22.23	20.20	21.42	20.63	21.80	22.23
4H	2H	17.52	18.96	17.92	19.30	19.68	17.52	18.96	17.92	19.30	19.68
	3H	19.53	20.73	19.94	21.13	21.53	19.53	20.73	19.94	21.13	21.53
	4H	20.35	21.44	20.78	21.85	22.28	20.35	21.44	20.78	21.85	22.28
	6H	21.02	21.97	21.47	22.41	22.87	21.02	21.97	21.47	22.41	22.87
	8H	21.25	22.15	21.71	22.59	23.05	21.25	22.15	21.71	22.59	23.05
	12H	21.43	22.24	21.91	22.71	23.18	21.43	22.24	21.91	22.71	23.18
8H	4H	20.68	21.57	21.13	22.01	22.48	20.68	21.57	21.13	22.01	22.48
	6H	21.48	22.23	21.97	22.71	23.19	21.48	22.23	21.97	22.71	23.19
	8H	21.79	22.46	22.30	22.97	23.45	21.79	22.46	22.30	22.97	23.45
	12H	22.05	22.65	22.56	23.14	23.70	22.05	22.65	22.56	23.14	23.70
12H	4H	20.72	21.53	21.20	22.00	22.47	20.72	21.53	21.20	22.00	22.47
	6H	21.55	22.22	22.05	22.72	23.21	21.55	22.22	22.05	22.72	23.21
	8H	21.92	22.52	22.43	23.01	23.57	21.92	22.52	22.43	23.01	23.57