

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: P866811

Luminaire Tested: PRLX-2001-L-935-133L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866811  
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-935-133L-G-X-X-WHHR-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

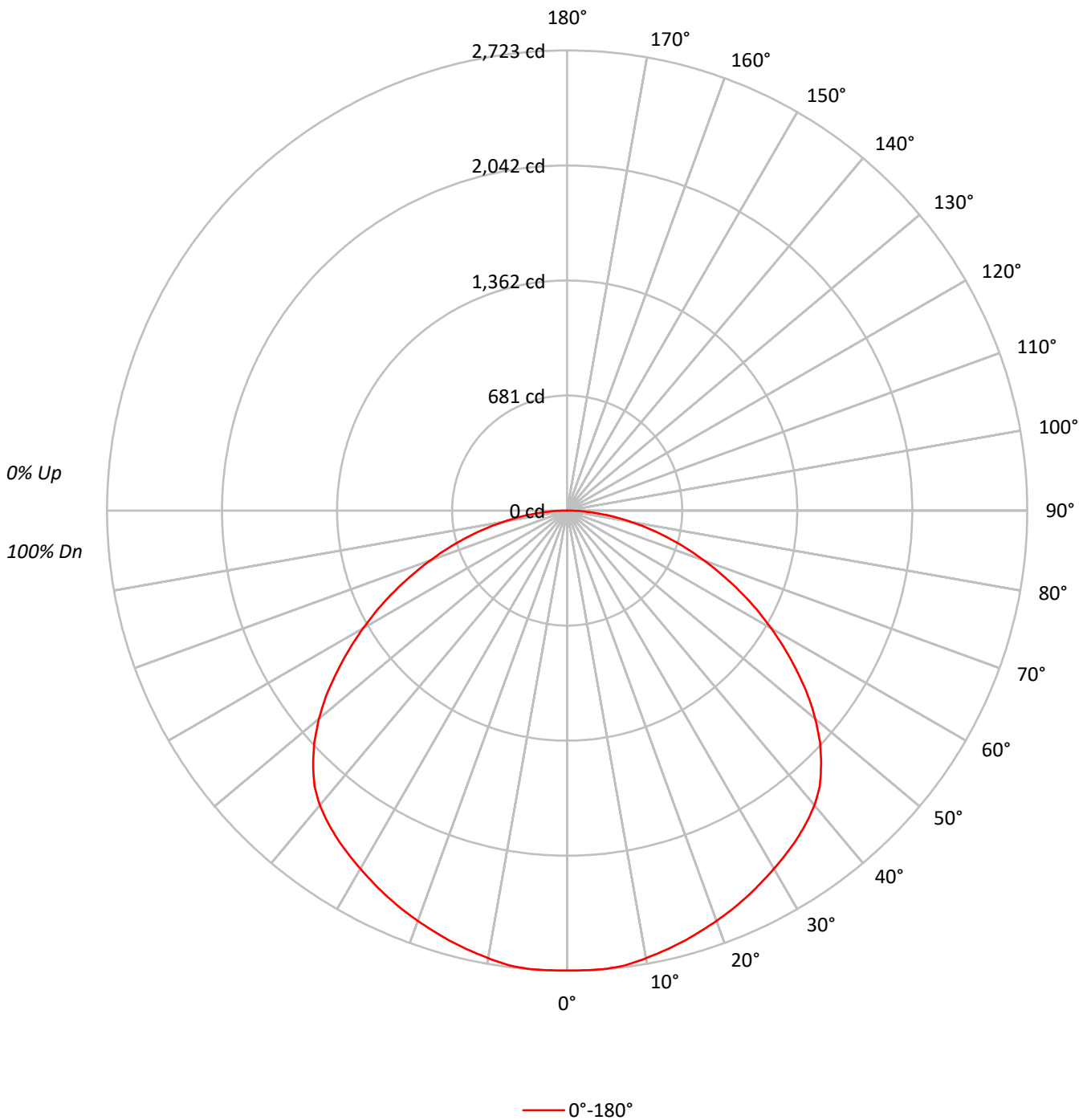
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8736.1 lumens  
Efficiency: N/A  
Efficacy: 78.1 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): 111.8  
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°	14877
5°	14934
10°	14929
15°	14951
20°	15035
25°	15201
30°	15449
35°	15824
40°	16250
45°	16434
50°	16306
55°	15843
60°	15243
65°	14550
70°	13770
75°	12935
80°	12042
85°	10764

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16434 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.8	3.0
10°-20°	746.7	8.5
20°-30°	1163.8	13.3
30°-40°	1485.3	17.0
40°-50°	1635.0	18.7
50°-60°	1485.5	17.0
60°-70°	1114.4	12.8
70°-80°	651.4	7.5
80°-90°	195.0	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°	2169.3	24.8
0°-40°	3654.6	41.8
0°-60°	6775.2	77.6
0°-90°	8736.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8736.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2721	
5°	2721	259
15°	2642	747
25°	2520	1164
35°	2371	1485
45°	2126	1635
55°	1662	1486
65°	1125	1114
75°	612	651
85°	172	195
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2721.4
2.5°	2722.6
5°	2721.4
7.5°	2711.9
10°	2689.3
12.5°	2666.6
15°	2641.6
17.5°	2613.0
20°	2584.4
22.5°	2553.4
25°	2520.1
27.5°	2484.3
30°	2447.4
32.5°	2410.5
35°	2371.1
37.5°	2327.0
40°	2277.0
42.5°	2212.7
45°	2125.7
47.5°	2029.2
50°	1917.2
52.5°	1795.6
55°	1662.2
57.5°	1529.9
60°	1394.1
62.5°	1261.8
65°	1124.8
67.5°	990.2
70°	861.5
72.5°	737.6
75°	612.4
77.5°	498.1
80°	382.5
82.5°	274.1
85°	171.6
87.5°	79.8
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	21.86	23.53	22.22	23.85	24.16	21.86	23.53	22.22	23.85	24.16
	3H	23.63	25.15	24.01	25.48	25.84	23.63	25.15	24.01	25.48	25.84
	4H	24.32	25.75	24.71	26.10	26.47	24.32	25.75	24.71	26.10	26.47
	6H	24.85	26.18	25.26	26.54	26.93	24.85	26.18	25.26	26.54	26.93
	8H	25.03	26.30	25.46	26.69	27.09	25.03	26.30	25.46	26.69	27.09
	12H	25.16	26.38	25.59	26.76	27.19	25.16	26.38	25.59	26.76	27.19
4H	2H	22.48	23.92	22.88	24.26	24.64	22.48	23.92	22.88	24.26	24.64
	3H	24.49	25.69	24.90	26.09	26.49	24.49	25.69	24.90	26.09	26.49
	4H	25.31	26.40	25.74	26.81	27.25	25.31	26.40	25.74	26.81	27.25
	6H	25.98	26.93	26.43	27.37	27.83	25.98	26.93	26.43	27.37	27.83
	8H	26.21	27.11	26.67	27.55	28.01	26.21	27.11	26.67	27.55	28.01
	12H	26.39	27.20	26.87	27.67	28.14	26.39	27.20	26.87	27.67	28.14
8H	4H	25.64	26.53	26.10	26.97	27.44	25.64	26.53	26.10	26.97	27.44
	6H	26.44	27.19	26.93	27.67	28.15	26.44	27.19	26.93	27.67	28.15
	8H	26.76	27.43	27.26	27.93	28.42	26.76	27.43	27.26	27.93	28.42
	12H	27.02	27.61	27.52	28.10	28.66	27.02	27.61	27.52	28.10	28.66
12H	4H	25.68	26.49	26.16	26.96	27.43	25.68	26.49	26.16	26.96	27.43
	6H	26.51	27.18	27.01	27.68	28.17	26.51	27.18	27.01	27.68	28.17
	8H	26.89	27.48	27.39	27.97	28.53	26.89	27.48	27.39	27.97	28.53