

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: P866795

Luminaire Tested: PRLX-2001-L-935-100L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866795  
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-935-100L-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 6  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

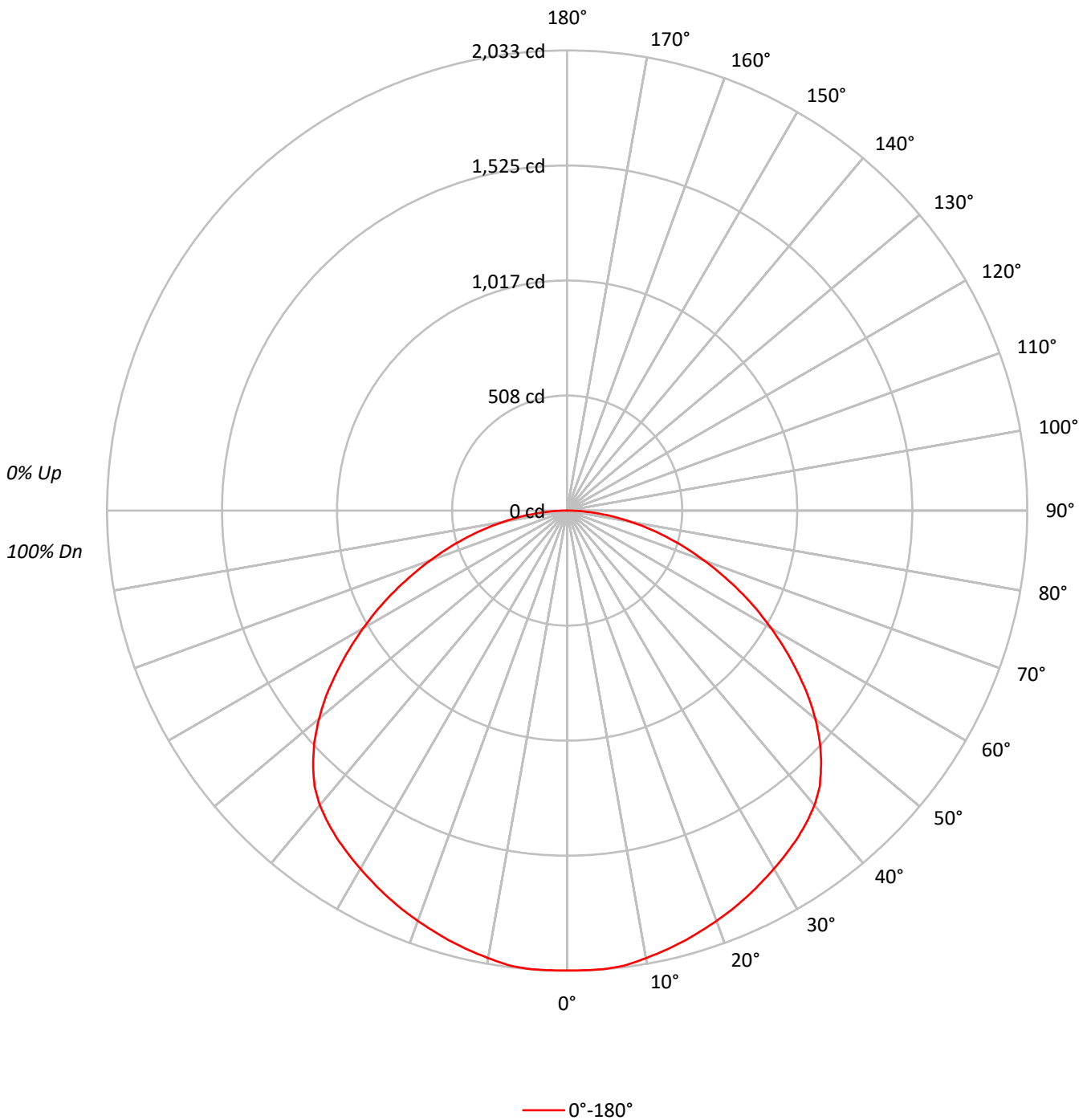
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6522.2 lumens  
Efficiency: N/A  
Efficacy: 82.1 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): 79.4  
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°	11108
5°	11150
10°	11146
15°	11162
20°	11225
25°	11349
30°	11534
35°	11815
40°	12132
45°	12270
50°	12173
55°	11828
60°	11380
65°	10863
70°	10281
75°	9657
80°	8991
85°	8035

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12270 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.2	3.0
10°-20°	557.5	8.5
20°-30°	868.9	13.3
30°-40°	1108.9	17.0
40°-50°	1220.7	18.7
50°-60°	1109.1	17.0
60°-70°	832.0	12.8
70°-80°	486.3	7.5
80°-90°	145.6	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°	1619.6	24.8
0°-40°	2728.5	41.8
0°-60°	5058.3	77.6
0°-90°	6522.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6522.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2032	
5°	2032	193
15°	1972	557
25°	1882	869
35°	1770	1109
45°	1587	1221
55°	1241	1109
65°	840	832
75°	457	486
85°	128	146
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2031.8
2.5°	2032.7
5°	2031.8
7.5°	2024.7
10°	2007.8
12.5°	1990.9
15°	1972.2
17.5°	1950.8
20°	1929.5
22.5°	1906.4
25°	1881.5
27.5°	1854.8
30°	1827.2
32.5°	1799.6
35°	1770.3
37.5°	1737.3
40°	1700.0
42.5°	1651.9
45°	1587.0
47.5°	1515.0
50°	1431.3
52.5°	1340.6
55°	1241.0
57.5°	1142.2
60°	1040.8
62.5°	942.1
65°	839.8
67.5°	739.2
70°	643.2
72.5°	550.6
75°	457.2
77.5°	371.8
80°	285.6
82.5°	204.6
85°	128.1
87.5°	59.6
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	20.84	22.52	21.21	22.83	23.15	20.84	22.52	21.21	22.83	23.15
	3H	22.62	24.13	22.99	24.46	24.82	22.62	24.13	22.99	24.46	24.82
	4H	23.30	24.73	23.70	25.08	25.45	23.30	24.73	23.70	25.08	25.45
	6H	23.83	25.16	24.24	25.53	25.92	23.83	25.16	24.24	25.53	25.92
	8H	24.02	25.29	24.44	25.68	26.07	24.02	25.29	24.44	25.68	26.07
	12H	24.14	25.36	24.57	25.74	26.17	24.14	25.36	24.57	25.74	26.17
4H	2H	21.47	22.90	21.87	23.25	23.62	21.47	22.90	21.87	23.25	23.62
	3H	23.47	24.68	23.88	25.07	25.47	23.47	24.68	23.88	25.07	25.47
	4H	24.29	25.38	24.72	25.80	26.23	24.29	25.38	24.72	25.80	26.23
	6H	24.96	25.92	25.41	26.36	26.81	24.96	25.92	25.41	26.36	26.81
	8H	25.20	26.09	25.66	26.53	27.00	25.20	26.09	25.66	26.53	27.00
	12H	25.38	26.18	25.86	26.66	27.13	25.38	26.18	25.86	26.66	27.13
8H	4H	24.62	25.52	25.08	25.96	26.42	24.62	25.52	25.08	25.96	26.42
	6H	25.42	26.17	25.92	26.66	27.13	25.42	26.17	25.92	26.66	27.13
	8H	25.74	26.41	26.25	26.92	27.40	25.74	26.41	26.25	26.92	27.40
	12H	26.00	26.59	26.50	27.08	27.64	26.00	26.59	26.50	27.08	27.64
12H	4H	24.66	25.47	25.14	25.95	26.41	24.66	25.47	25.14	25.95	26.41
	6H	25.49	26.16	26.00	26.67	27.15	25.49	26.16	26.00	26.67	27.15
	8H	25.87	26.46	26.37	26.95	27.51	25.87	26.46	26.37	26.95	27.51