

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: P866003

Luminaire Tested: PRLX-2001-M-930-55L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-930-55L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

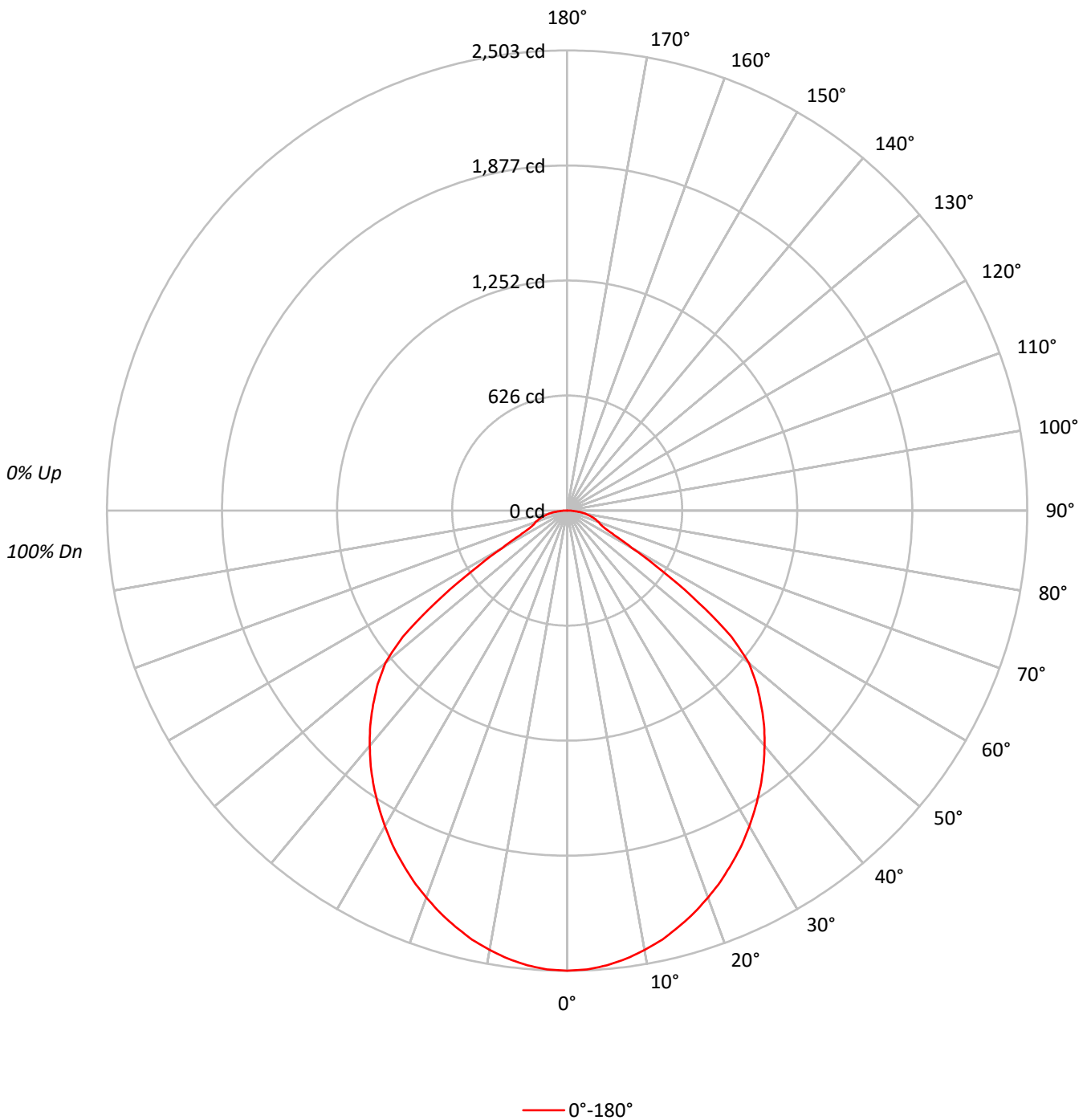
Lumens per Lamp: N/A  
Luminaire Lumens: 5390.7 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct

Input Watts (W): 48.3  
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

TEST NUMBER: P866003

CATALOG NUMBER: PRLX-2001-M-930-55L-L-U-S-X-X-WHHR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866003

CATALOG NUMBER: PRLX-2001-M-930-55L-L-U-S-X-X-WHHR-X

**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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	44	39	64	52	44	39	50	44	39	49	43	38	48	42	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

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

	0°
0°	21240
5°	21146
10°	20912
15°	20588
20°	20225
25°	19833
30°	19422
35°	18988
40°	18505
45°	17907
50°	17033
55°	12898
60°	6926
65°	4464
70°	4501
75°	4748
80°	4931
85°	4985

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17907 cd/sqm

TEST NUMBER: P866003

CATALOG NUMBER: PRLX-2001-M-930-55L-L-U-S-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.2	4.4
10°-20°	660.7	12.3
20°-30°	976.1	18.1
30°-40°	1146.1	21.3
40°-50°	1149.0	21.3
50°-60°	769.4	14.3
60°-70°	247.1	4.6
70°-80°	151.1	2.8
80°-90°	55.9	1.0
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°	1872.0	34.7
0°-40°	3018.2	56.0
0°-60°	4936.6	91.6
0°-90°	5390.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5390.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2503	
5°	2482	235
15°	2343	661
25°	2118	976
35°	1833	1146
45°	1492	1149
55°	872	769
65°	222	247
75°	145	151
85°	51	56
90°	0	

TEST NUMBER: P866003

CATALOG NUMBER: PRLX-2001-M-930-55L-L-U-S-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2502.9
2.5°	2498.5
5°	2482.4
7.5°	2459.0
10°	2426.8
12.5°	2390.2
15°	2343.4
17.5°	2295.2
20°	2239.6
22.5°	2182.5
25°	2118.2
27.5°	2053.8
30°	1982.1
32.5°	1909.0
35°	1832.9
37.5°	1753.9
40°	1670.5
42.5°	1585.7
45°	1492.1
47.5°	1397.0
50°	1290.2
52.5°	1126.4
55°	871.8
57.5°	618.8
60°	408.1
62.5°	288.2
65°	222.3
67.5°	196.0
70°	181.4
72.5°	163.8
75°	144.8
77.5°	122.9
80°	100.9
82.5°	77.5
85°	51.2
87.5°	26.3
90°	0.0



TEST NUMBER: P866003  
 CATALOG NUMBER: PRLX-2001-M-930-55L-L-U-S-X-X-WHHR-X

**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	18.90	20.37	19.26	20.69	21.00	18.90	20.37	19.26	20.69	21.00
	3H	19.38	20.69	19.76	21.02	21.38	19.38	20.69	19.76	21.02	21.38
	4H	19.70	20.92	20.10	21.27	21.65	19.70	20.92	20.10	21.27	21.65
	6H	20.03	21.15	20.44	21.52	21.91	20.03	21.15	20.44	21.52	21.91
	8H	20.16	21.24	20.59	21.63	22.03	20.16	21.24	20.59	21.63	22.03
	12H	20.27	21.30	20.70	21.68	22.11	20.27	21.30	20.70	21.68	22.11
4H	2H	18.93	20.16	19.33	20.51	20.88	18.93	20.16	19.33	20.51	20.88
	3H	19.64	20.64	20.05	21.04	21.45	19.64	20.64	20.05	21.04	21.45
	4H	20.11	21.01	20.55	21.43	21.87	20.11	21.01	20.55	21.43	21.87
	6H	20.61	21.39	21.07	21.84	22.30	20.61	21.39	21.07	21.84	22.30
	8H	20.82	21.55	21.29	22.00	22.46	20.82	21.55	21.29	22.00	22.46
	12H	20.99	21.65	21.48	22.13	22.60	20.99	21.65	21.48	22.13	22.60
8H	4H	20.28	21.01	20.74	21.45	21.92	20.28	21.01	20.74	21.45	21.92
	6H	20.91	21.52	21.41	22.01	22.49	20.91	21.52	21.41	22.01	22.49
	8H	21.21	21.76	21.72	22.27	22.76	21.21	21.76	21.72	22.27	22.76
	12H	21.47	21.96	21.98	22.46	23.02	21.47	21.96	21.98	22.46	23.02
12H	4H	20.29	20.94	20.78	21.42	21.90	20.29	20.94	20.78	21.42	21.90
	6H	20.95	21.50	21.47	22.01	22.50	20.95	21.50	21.47	22.01	22.50
	8H	21.31	21.80	21.82	22.30	22.86	21.31	21.80	21.82	22.30	22.86