

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: P865954

Luminaire Tested: PRLX-2001-M-927-75L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-927-75L-L-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

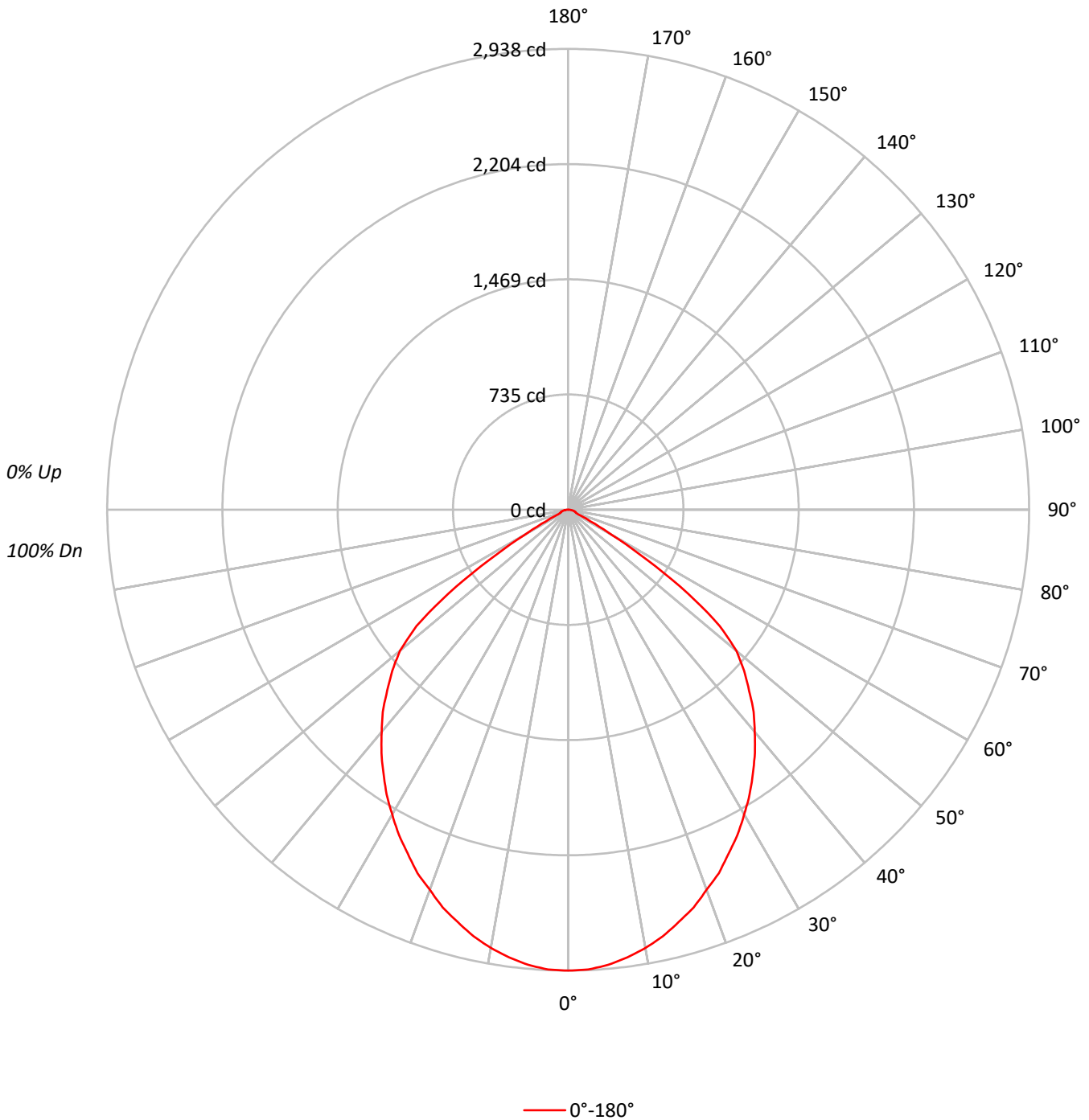
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5676.3 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 69.7  
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: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P865954

CATALOG NUMBER: PRLX-2001-M-927-75L-L-U-S-X-X-GREY-X

### Luminous Intensity Polar Plot





TEST NUMBER: P865954

CATALOG NUMBER: PRLX-2001-M-927-75L-L-U-S-X-X-GREY-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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

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

	0°
0°	24934
5°	24818
10°	24449
15°	23907
20°	23285
25°	22647
30°	21985
35°	21271
40°	20490
45°	19571
50°	18465
55°	13824
60°	5458
65°	1490
70°	1275
75°	1374
80°	1486
85°	1480

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19571 cd/sqm

TEST NUMBER: P865954

CATALOG NUMBER: PRLX-2001-M-927-75L-L-U-S-X-X-GREY-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.6	4.9
10°-20°	766.8	13.5
20°-30°	1114.9	19.6
30°-40°	1284.0	22.6
40°-50°	1258.4	22.2
50°-60°	799.5	14.1
60°-70°	116.5	2.1
70°-80°	44.0	0.8
80°-90°	16.5	0.3
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°	2157.4	38.0
0°-40°	3441.4	60.6
0°-60°	5499.3	96.9
0°-90°	5676.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5676.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2938	
5°	2913	276
15°	2721	767
25°	2419	1115
35°	2053	1284
45°	1631	1258
55°	934	799
65°	74	116
75°	42	44
85°	15	17
90°	0	

TEST NUMBER: P865954

CATALOG NUMBER: PRLX-2001-M-927-75L-L-U-S-X-X-GREY-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2938.2
2.5°	2934.4
5°	2913.4
7.5°	2879.2
10°	2837.3
12.5°	2785.9
15°	2721.2
17.5°	2658.4
20°	2578.5
22.5°	2508.1
25°	2418.7
27.5°	2336.8
30°	2243.6
32.5°	2152.3
35°	2053.3
37.5°	1954.3
40°	1849.7
42.5°	1748.8
45°	1630.8
47.5°	1520.5
50°	1398.7
52.5°	1217.9
55°	934.4
57.5°	595.6
60°	321.6
62.5°	161.8
65°	74.2
67.5°	53.3
70°	51.4
72.5°	47.6
75°	41.9
77.5°	36.2
80°	30.4
82.5°	22.8
85°	15.2
87.5°	7.6
90°	0.0



TEST NUMBER: P865954  
 CATALOG NUMBER: PRLX-2001-M-927-75L-L-U-S-X-X-GREY-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	18.48	19.88	18.85	20.20	20.51	18.48	19.88	18.85	20.20	20.51
	3H	18.41	19.65	18.79	19.97	20.34	18.41	19.65	18.79	19.97	20.34
	4H	18.39	19.53	18.79	19.88	20.27	18.39	19.53	18.79	19.88	20.27
	6H	18.37	19.42	18.78	19.79	20.18	18.37	19.42	18.78	19.79	20.18
	8H	18.35	19.35	18.78	19.74	20.14	18.35	19.35	18.78	19.74	20.14
	12H	18.33	19.28	18.76	19.67	20.10	18.33	19.28	18.76	19.67	20.10
4H	2H	18.32	19.47	18.72	19.82	20.20	18.32	19.47	18.72	19.82	20.20
	3H	18.28	19.21	18.70	19.61	20.01	18.28	19.21	18.70	19.61	20.01
	4H	18.27	19.09	18.71	19.51	19.95	18.27	19.09	18.71	19.51	19.95
	6H	18.28	18.99	18.75	19.44	19.90	18.28	18.99	18.75	19.44	19.90
	8H	18.27	18.93	18.74	19.38	19.85	18.27	18.93	18.74	19.38	19.85
	12H	18.26	18.85	18.75	19.33	19.81	18.26	18.85	18.75	19.33	19.81
8H	4H	18.18	18.84	18.65	19.29	19.76	18.18	18.84	18.65	19.29	19.76
	6H	18.20	18.75	18.70	19.24	19.72	18.20	18.75	18.70	19.24	19.72
	8H	18.20	18.70	18.72	19.21	19.70	18.20	18.70	18.72	19.21	19.70
	12H	18.21	18.66	18.73	19.16	19.73	18.21	18.66	18.73	19.16	19.73
12H	4H	18.14	18.73	18.63	19.21	19.69	18.14	18.73	18.63	19.21	19.69
	6H	18.15	18.65	18.67	19.16	19.66	18.15	18.65	18.67	19.16	19.66
	8H	18.18	18.63	18.69	19.12	19.69	18.18	18.63	18.69	19.12	19.69