

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: P865912

Luminaire Tested: PRLX-2001-M-927-25L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-25L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

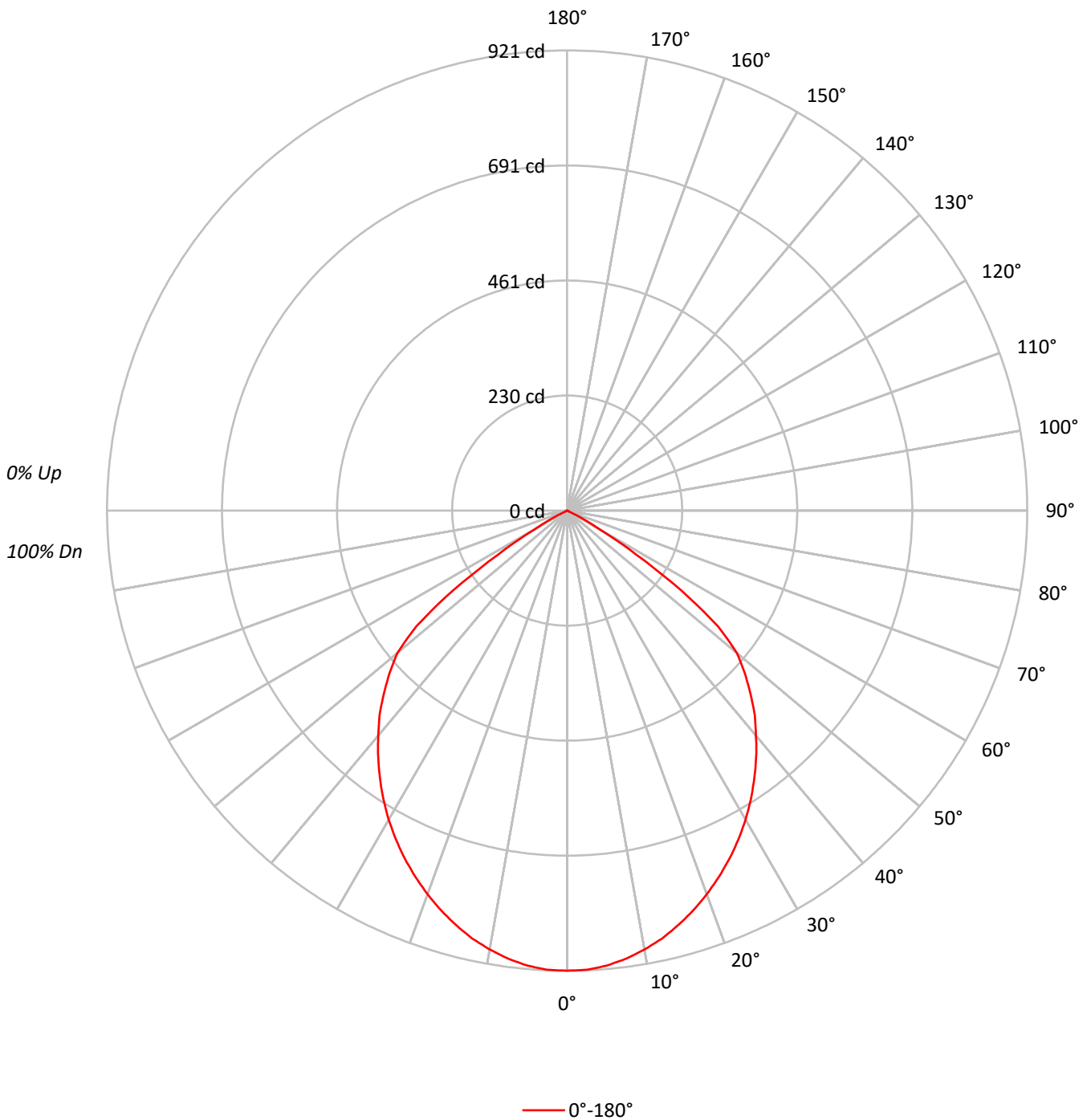
Lumens per Lamp: N/A
Luminaire Lumens: 1752.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (A_{in}): 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: P865912

CATALOG NUMBER: PRLX-2001-M-927-25L-L-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P865912

CATALOG NUMBER: PRLX-2001-M-927-25L-L-U-S-X-X-BLAK-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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	86	90	86	84	87	84	82	80
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7816
5°	7787
10°	7685
15°	7546
20°	7378
25°	7198
30°	6998
35°	6769
40°	6514
45°	6227
50°	5854
55°	4129
60°	1303
65°	88
70°	62
75°	62
80°	64
85°	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6227 cd/sqm

TEST NUMBER: P865912

CATALOG NUMBER: PRLX-2001-M-927-25L-L-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	4.9
10°-20°	242.0	13.8
20°-30°	353.9	20.2
30°-40°	408.4	23.3
40°-50°	399.7	22.8
50°-60°	239.8	13.7
60°-70°	18.7	1.1
70°-80°	2.2	0.1
80°-90°	0.9	0.0
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°	682.4	38.9
0°-40°	1090.8	62.3
0°-60°	1730.3	98.8
0°-90°	1752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	921	
5°	914	87
15°	859	242
25°	769	354
35°	653	408
45°	519	400
55°	279	240
65°	4	19
75°	2	2
85°	1	1
90°	0	

TEST NUMBER: P865912

CATALOG NUMBER: PRLX-2001-M-927-25L-L-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	921.0
2.5°	919.8
5°	914.1
7.5°	904.5
10°	891.9
12.5°	877.3
15°	858.9
17.5°	839.2
20°	817.0
22.5°	793.5
25°	768.8
27.5°	742.2
30°	714.2
32.5°	684.4
35°	653.4
37.5°	621.6
40°	588.0
42.5°	555.7
45°	518.9
47.5°	482.1
50°	443.4
52.5°	380.6
55°	279.1
57.5°	164.3
60°	76.8
62.5°	30.4
65°	4.4
67.5°	2.5
70°	2.5
72.5°	2.5
75°	1.9
77.5°	1.9
80°	1.3
82.5°	1.3
85°	0.6
87.5°	0.6
90°	0.0



TEST NUMBER: P865912
 CATALOG NUMBER: PRLX-2001-M-927-25L-L-U-S-X-X-BLAK-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	13.61	14.99	13.97	15.30	15.61	13.61	14.99	13.97	15.30	15.61
	3H	13.49	14.69	13.87	15.02	15.39	13.49	14.69	13.87	15.02	15.39
	4H	13.42	14.54	13.82	14.89	15.27	13.42	14.54	13.82	14.89	15.27
	6H	13.35	14.37	13.76	14.74	15.13	13.35	14.37	13.76	14.74	15.13
	8H	13.31	14.27	13.74	14.67	15.07	13.31	14.27	13.74	14.67	15.07
	12H	13.27	14.19	13.70	14.57	15.00	13.27	14.19	13.70	14.57	15.00
4H	2H	13.42	14.54	13.82	14.89	15.27	13.42	14.54	13.82	14.89	15.27
	3H	13.30	14.20	13.71	14.60	15.00	13.30	14.20	13.71	14.60	15.00
	4H	13.22	14.01	13.65	14.43	14.87	13.22	14.01	13.65	14.43	14.87
	6H	13.14	13.82	13.60	14.27	14.74	13.14	13.82	13.60	14.27	14.74
	8H	13.08	13.72	13.55	14.17	14.64	13.08	13.72	13.55	14.17	14.64
	12H	13.04	13.60	13.52	14.08	14.56	13.04	13.60	13.52	14.08	14.56
8H	4H	13.08	13.72	13.55	14.17	14.64	13.08	13.72	13.55	14.17	14.64
	6H	12.97	13.50	13.48	14.00	14.48	12.97	13.50	13.48	14.00	14.48
	8H	12.91	13.39	13.43	13.90	14.39	12.91	13.39	13.43	13.90	14.39
	12H	12.86	13.29	13.37	13.78	14.35	12.86	13.29	13.37	13.78	14.35
12H	4H	13.03	13.60	13.52	14.08	14.55	13.03	13.60	13.52	14.08	14.55
	6H	12.91	13.39	13.43	13.90	14.39	12.91	13.39	13.43	13.90	14.39
	8H	12.86	13.29	13.37	13.78	14.35	12.86	13.29	13.37	13.78	14.35