

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: P866684

Luminaire Tested: PRLX-2001-L-927-15L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-79)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-927-15L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

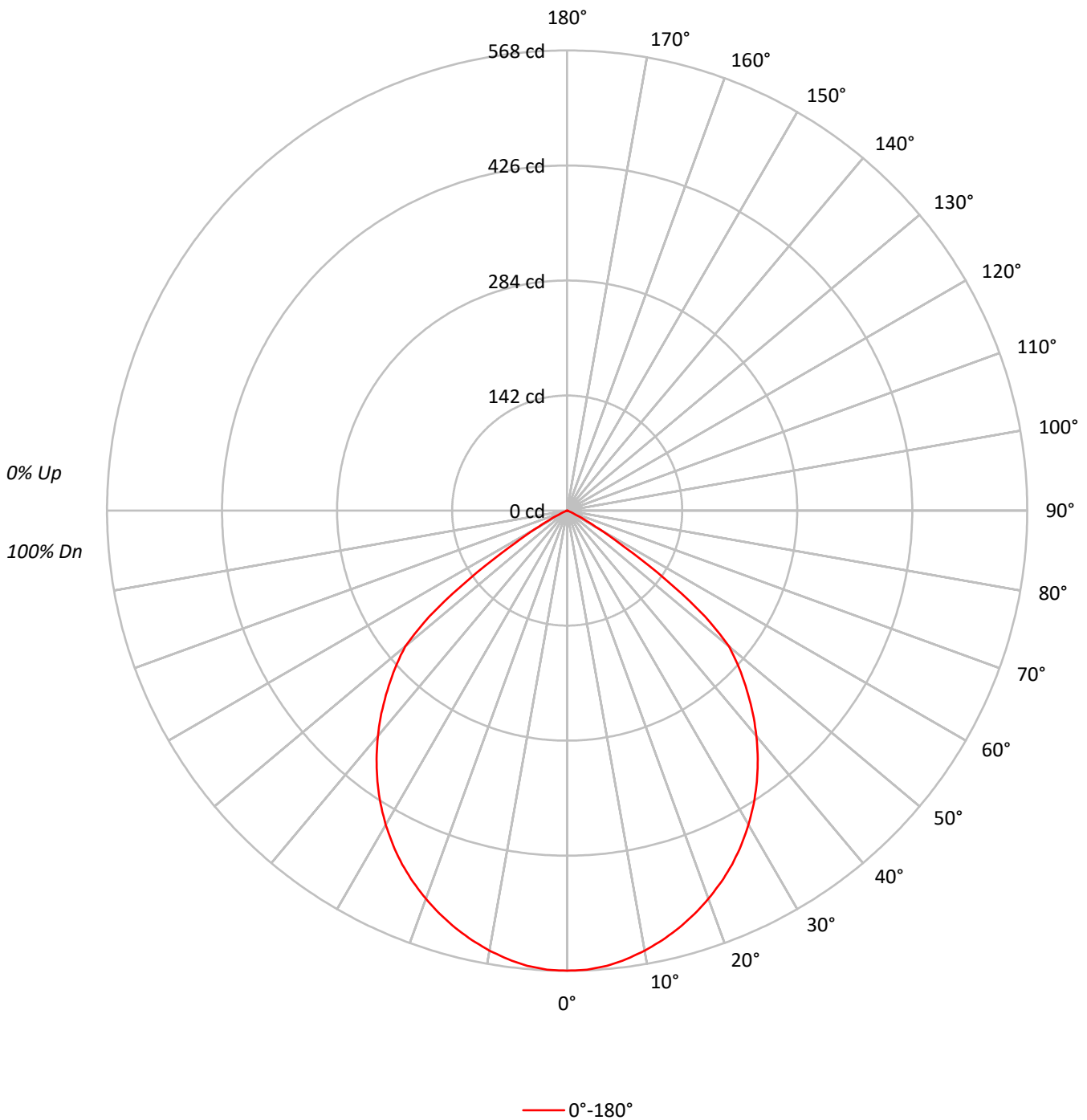
Lumens per Lamp: N/A
Luminaire Lumens: 1070.1 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): 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: P866684

CATALOG NUMBER: PRLX-2001-L-927-15L-L-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866684

CATALOG NUMBER: PRLX-2001-L-927-15L-L-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	109	105	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75		82	78	74		80	76	73	71
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		66	62	58	56
6	78	67	59	53	76	66	58	53	64	58	53		62	57	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	56	48	43	67	55	48	43	54	48	43		53	47	43		52	47	43	41
9	64	52	44	39	62	51	44	39	50	44	39		49	43	39		48	43	39	37
10	60	48	41	36	59	47	41	36	46	40	36		46	40	36		45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3105
5°	3096
10°	3061
15°	3018
20°	2966
25°	2906
30°	2827
35°	2725
40°	2594
45°	2427
50°	2221
55°	1409
60°	489
65°	123
70°	21
75°	23
80°	28
85°	31

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2427 cd/sqm

TEST NUMBER: P866684

CATALOG NUMBER: PRLX-2001-L-927-15L-L-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	5.0
10°-20°	150.3	14.0
20°-30°	221.6	20.7
30°-40°	254.8	23.8
40°-50°	241.6	22.6
50°-60°	132.5	12.4
60°-70°	14.0	1.3
70°-80°	1.2	0.1
80°-90°	0.5	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°	425.4	39.8
0°-40°	680.2	63.6
0°-60°	1054.4	98.5
0°-90°	1070.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1070.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	568	
5°	564	53
15°	533	150
25°	482	222
35°	408	255
45°	314	242
55°	148	133
65°	10	14
75°	1	1
85°	0	1
90°	0	

TEST NUMBER: P866684

CATALOG NUMBER: PRLX-2001-L-927-15L-L-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	567.9
2.5°	567.3
5°	564.1
7.5°	558.6
10°	551.5
12.5°	543.1
15°	533.3
17.5°	522.2
20°	509.9
22.5°	496.5
25°	481.8
27.5°	465.5
30°	447.8
32.5°	428.8
35°	408.3
37.5°	386.5
40°	363.5
42.5°	339.4
45°	313.9
47.5°	288.0
50°	261.1
52.5°	214.6
55°	147.8
57.5°	84.6
60°	44.7
62.5°	23.3
65°	9.5
67.5°	1.8
70°	1.3
72.5°	1.2
75°	1.1
77.5°	1.0
80°	0.9
82.5°	0.7
85°	0.5
87.5°	0.2
90°	0.0



TEST NUMBER: P866684
 CATALOG NUMBER: PRLX-2001-L-927-15L-L-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	9.24	10.60	9.60	10.91	11.22	9.24	10.60	9.60	10.91	11.22
	3H	9.11	10.30	9.49	10.63	11.00	9.11	10.30	9.49	10.63	11.00
	4H	9.04	10.15	9.45	10.50	10.88	9.04	10.15	9.45	10.50	10.88
	6H	8.97	9.98	9.38	10.35	10.74	8.97	9.98	9.38	10.35	10.74
	8H	8.93	9.88	9.36	10.28	10.68	8.93	9.88	9.36	10.28	10.68
	12H	8.89	9.80	9.32	10.18	10.61	8.89	9.80	9.32	10.18	10.61
4H	2H	9.07	10.17	9.47	10.52	10.91	9.07	10.17	9.47	10.52	10.91
	3H	8.94	9.83	9.36	10.23	10.64	8.94	9.83	9.36	10.23	10.64
	4H	8.86	9.65	9.30	10.07	10.51	8.86	9.65	9.30	10.07	10.51
	6H	8.78	9.46	9.25	9.90	10.37	8.78	9.46	9.25	9.90	10.37
	8H	8.73	9.36	9.20	9.80	10.28	8.73	9.36	9.20	9.80	10.28
	12H	8.68	9.24	9.17	9.72	10.20	8.68	9.24	9.17	9.72	10.20
8H	4H	8.72	9.35	9.19	9.80	10.27	8.72	9.35	9.19	9.80	10.27
	6H	8.62	9.14	9.12	9.63	10.12	8.62	9.14	9.12	9.63	10.12
	8H	8.55	9.02	9.07	9.54	10.03	8.55	9.02	9.07	9.54	10.03
	12H	8.50	8.93	9.02	9.42	9.99	8.50	8.93	9.02	9.42	9.99
12H	4H	8.67	9.23	9.16	9.71	10.19	8.67	9.23	9.16	9.71	10.19
	6H	8.55	9.02	9.07	9.54	10.03	8.55	9.02	9.07	9.54	10.03
	8H	8.50	8.93	9.01	9.42	9.99	8.50	8.93	9.01	9.42	9.99