

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: P866708

Luminaire Tested: PRLX-2001-L-927-67L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866708
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: Prenalux
Catalog Number: PRLX-2001-L-927-67L-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 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

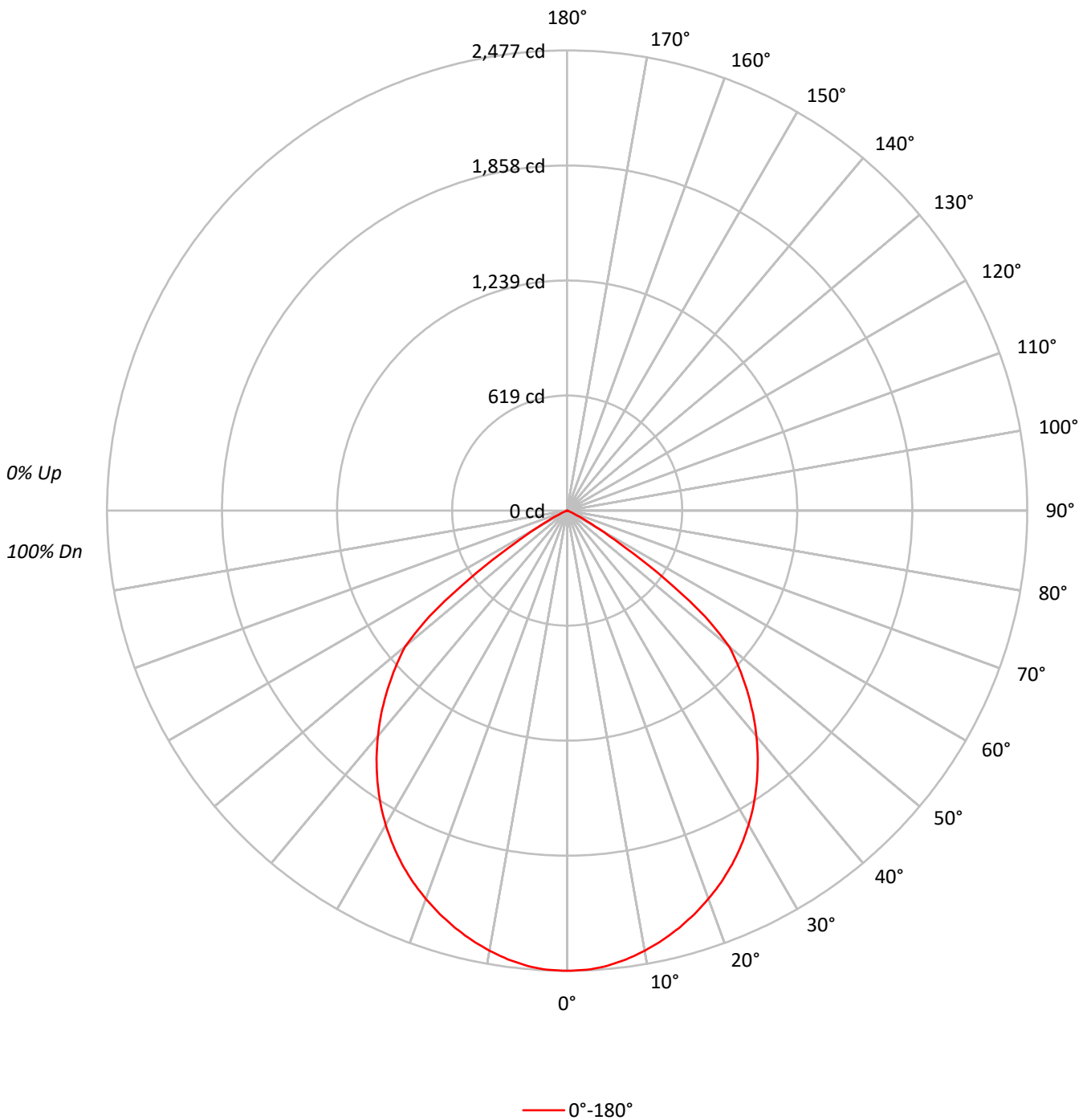
Lumens per Lamp: N/A
Luminaire Lumens: 4667.7 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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: P866708

CATALOG NUMBER: PRLX-2001-L-927-67L-L-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866708

CATALOG NUMBER: PRLX-2001-L-927-67L-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°	13541
5°	13503
10°	13354
15°	13164
20°	12938
25°	12677
30°	12331
35°	11887
40°	11316
45°	10586
50°	9688
55°	6146
60°	2133
65°	537
70°	93
75°	101
80°	116
85°	132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10586 cd/sqm

TEST NUMBER: P866708

CATALOG NUMBER: PRLX-2001-L-927-67L-L-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.1	5.0
10°-20°	655.5	14.0
20°-30°	966.8	20.7
30°-40°	1111.7	23.8
40°-50°	1053.9	22.6
50°-60°	578.2	12.4
60°-70°	61.2	1.3
70°-80°	5.1	0.1
80°-90°	2.2	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°	1855.4	39.8
0°-40°	2967.1	63.6
0°-60°	4599.2	98.5
0°-90°	4667.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4667.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2477	
5°	2460	233
15°	2326	656
25°	2102	967
35°	1781	1112
45°	1369	1054
55°	645	578
65°	42	61
75°	5	5
85°	2	2
90°	0	

TEST NUMBER: P866708

CATALOG NUMBER: PRLX-2001-L-927-67L-L-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	2477.0
2.5°	2474.3
5°	2460.5
7.5°	2436.6
10°	2405.7
12.5°	2369.1
15°	2326.0
17.5°	2277.6
20°	2223.9
22.5°	2165.5
25°	2101.7
27.5°	2030.5
30°	1953.4
32.5°	1870.5
35°	1781.2
37.5°	1686.0
40°	1585.6
42.5°	1480.3
45°	1369.2
47.5°	1256.0
50°	1139.1
52.5°	936.0
55°	644.8
57.5°	368.9
60°	195.1
62.5°	101.5
65°	41.5
67.5°	8.0
70°	5.8
72.5°	5.3
75°	4.8
77.5°	4.3
80°	3.7
82.5°	3.2
85°	2.1
87.5°	1.1
90°	0.0



TEST NUMBER: P866708
 CATALOG NUMBER: PRLX-2001-L-927-67L-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	14.35	15.71	14.72	16.02	16.34	14.35	15.71	14.72	16.02	16.34
	3H	14.23	15.42	14.61	15.75	16.11	14.23	15.42	14.61	15.75	16.11
	4H	14.16	15.26	14.56	15.61	16.00	14.16	15.26	14.56	15.61	16.00
	6H	14.08	15.10	14.50	15.47	15.86	14.08	15.10	14.50	15.47	15.86
	8H	14.04	15.00	14.47	15.39	15.80	14.04	15.00	14.47	15.39	15.80
	12H	14.00	14.92	14.43	15.30	15.73	14.00	14.92	14.43	15.30	15.73
4H	2H	14.18	15.29	14.59	15.64	16.02	14.18	15.29	14.59	15.64	16.02
	3H	14.06	14.95	14.47	15.35	15.75	14.06	14.95	14.47	15.35	15.75
	4H	13.98	14.76	14.41	15.18	15.62	13.98	14.76	14.41	15.18	15.62
	6H	13.90	14.57	14.36	15.02	15.49	13.90	14.57	14.36	15.02	15.49
	8H	13.84	14.47	14.31	14.92	15.39	13.84	14.47	14.31	14.92	15.39
	12H	13.79	14.35	14.28	14.84	15.31	13.79	14.35	14.28	14.84	15.31
8H	4H	13.84	14.47	14.31	14.92	15.39	13.84	14.47	14.31	14.92	15.39
	6H	13.73	14.25	14.24	14.75	15.23	13.73	14.25	14.24	14.75	15.23
	8H	13.67	14.14	14.19	14.66	15.15	13.67	14.14	14.19	14.66	15.15
	12H	13.62	14.04	14.13	14.54	15.11	13.62	14.04	14.13	14.54	15.11
12H	4H	13.79	14.35	14.27	14.83	15.30	13.79	14.35	14.27	14.83	15.30
	6H	13.66	14.14	14.19	14.65	15.14	13.66	14.14	14.19	14.65	15.14
	8H	13.62	14.04	14.13	14.54	15.11	13.62	14.04	14.13	14.54	15.11