

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: P867282

Luminaire Tested: PRLX-2004-L-930-48L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-74)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-930-48L-G-X-X-GREY-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

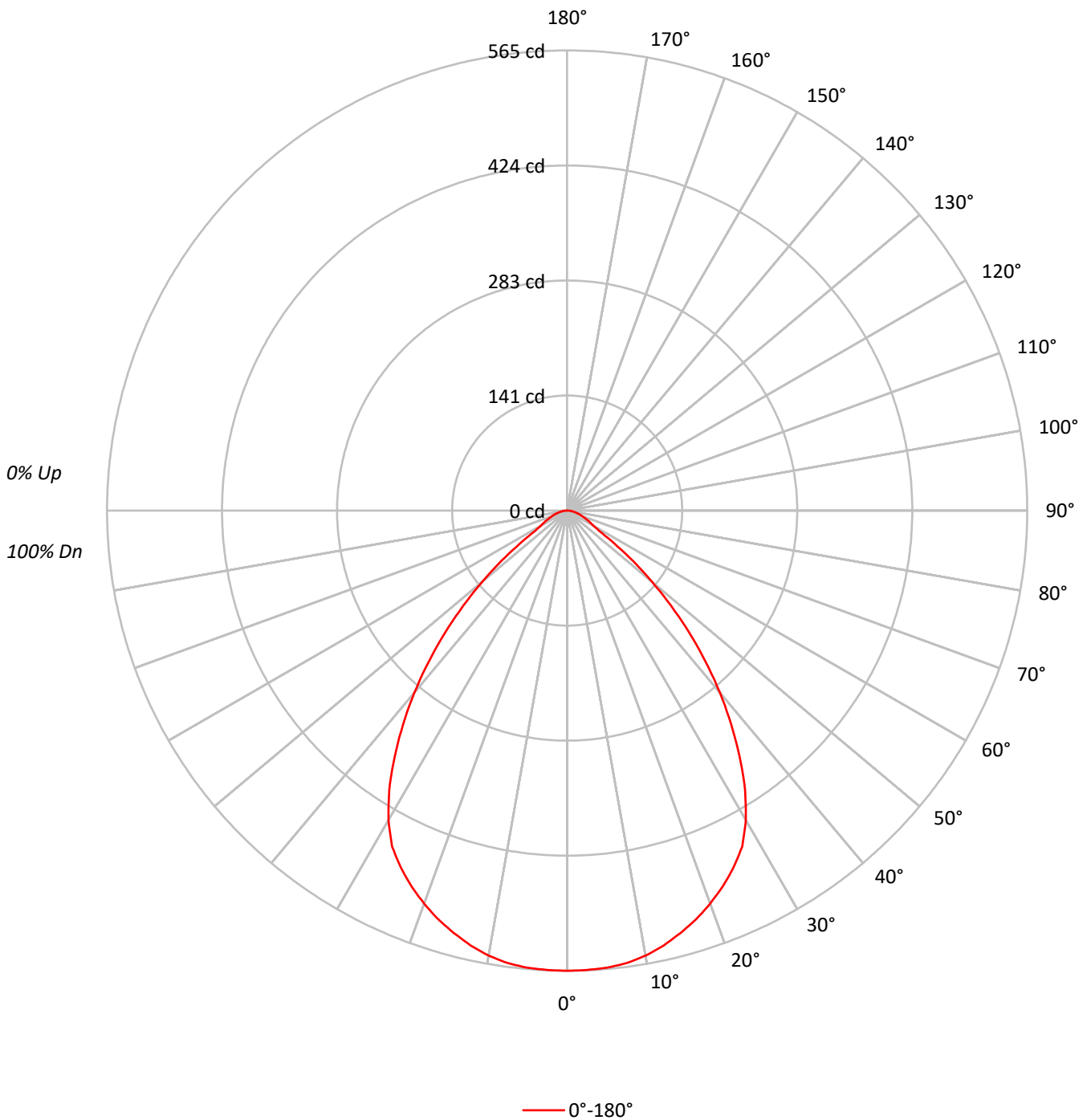
Lumens per Lamp: N/A
Luminaire Lumens: 932.2 lumens
Efficiency: N/A
Efficacy: 24.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.15
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867282

CATALOG NUMBER: PRLX-2004-L-930-48L-G-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P867282

CATALOG NUMBER: PRLX-2004-L-930-48L-G-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	101	102	100	98		98	96	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	85	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		74	70	66	64
5	85	75	67	62	83	73	67	62	72	66	61		70	64	60		68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55		64	59	55		63	58	54	53
7	74	63	56	51	73	62	55	50	61	55	50		60	54	50		58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46		55	50	45		54	49	45	44
9	66	54	47	42	64	54	47	42	53	46	42		52	46	42		51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39		48	42	39		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2788
5°	2790
10°	2780
15°	2743
20°	2696
25°	2632
30°	2499
35°	2225
40°	1878
45°	1477
50°	1042
55°	607
60°	367
65°	315
70°	280
75°	250
80°	227
85°	215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1477 cd/sqm

TEST NUMBER: P867282

CATALOG NUMBER: PRLX-2004-L-930-48L-G-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	5.7
10°-20°	151.4	16.2
20°-30°	221.7	23.8
30°-40°	229.4	24.6
40°-50°	162.9	17.5
50°-60°	67.8	7.3
60°-70°	27.3	2.9
70°-80°	14.1	1.5
80°-90°	4.2	0.4
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°	426.6	45.8
0°-40°	656.0	70.4
0°-60°	886.6	95.1
0°-90°	932.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	932.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	565	
5°	563	54
15°	537	151
25°	484	222
35°	369	229
45°	212	163
55°	71	68
65°	27	27
75°	13	14
85°	4	4
90°	0	

TEST NUMBER: P867282

CATALOG NUMBER: PRLX-2004-L-930-48L-G-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	565.0
2.5°	564.6
5°	563.3
7.5°	560.4
10°	554.9
12.5°	546.9
15°	537.1
17.5°	526.2
20°	513.5
22.5°	499.5
25°	483.5
27.5°	465.3
30°	438.7
32.5°	406.6
35°	369.4
37.5°	330.9
40°	291.6
42.5°	251.5
45°	211.7
47.5°	172.9
50°	135.7
52.5°	102.3
55°	70.6
57.5°	46.9
60°	37.2
62.5°	32.1
65°	27.0
67.5°	23.2
70°	19.4
72.5°	16.1
75°	13.1
77.5°	10.6
80°	8.0
82.5°	5.9
85°	3.8
87.5°	1.7
90°	0.0

TEST NUMBER: P867282
 CATALOG NUMBER: PRLX-2004-L-930-48L-G-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	5.49	6.78	5.86	7.09	7.41	5.49	6.78	5.86	7.09	7.41
	3H	6.56	7.70	6.94	8.03	8.39	6.56	7.70	6.94	8.03	8.39
	4H	6.96	8.01	7.36	8.36	8.75	6.96	8.01	7.36	8.36	8.75
	6H	7.26	8.23	7.68	8.60	9.00	7.26	8.23	7.68	8.60	9.00
	8H	7.36	8.28	7.79	8.67	9.08	7.36	8.28	7.79	8.67	9.08
	12H	7.43	8.31	7.87	8.69	9.12	7.43	8.31	7.87	8.69	9.12
4H	2H	5.80	6.86	6.20	7.21	7.59	5.80	6.86	6.20	7.21	7.59
	3H	7.08	7.94	7.50	8.35	8.75	7.08	7.94	7.50	8.35	8.75
	4H	7.60	8.36	8.03	8.78	9.23	7.60	8.36	8.03	8.78	9.23
	6H	8.02	8.68	8.49	9.13	9.60	8.02	8.68	8.49	9.13	9.60
	8H	8.17	8.79	8.64	9.23	9.70	8.17	8.79	8.64	9.23	9.70
	12H	8.28	8.82	8.77	9.31	9.78	8.28	8.82	8.77	9.31	9.78
8H	4H	7.75	8.37	8.22	8.82	9.29	7.75	8.37	8.22	8.82	9.29
	6H	8.29	8.79	8.79	9.29	9.77	8.29	8.79	8.79	9.29	9.77
	8H	8.50	8.96	9.02	9.47	9.96	8.50	8.96	9.02	9.47	9.96
	12H	8.69	9.09	9.20	9.59	10.16	8.69	9.09	9.20	9.59	10.16
12H	4H	7.75	8.29	8.24	8.78	9.25	7.75	8.29	8.24	8.78	9.25
	6H	8.30	8.76	8.83	9.28	9.77	8.30	8.76	8.83	9.28	9.77
	8H	8.57	8.98	9.09	9.47	10.04	8.57	8.98	9.09	9.47	10.04