

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: P866778

Luminaire Tested: PRLX-2001-L-930-67L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-930-67L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

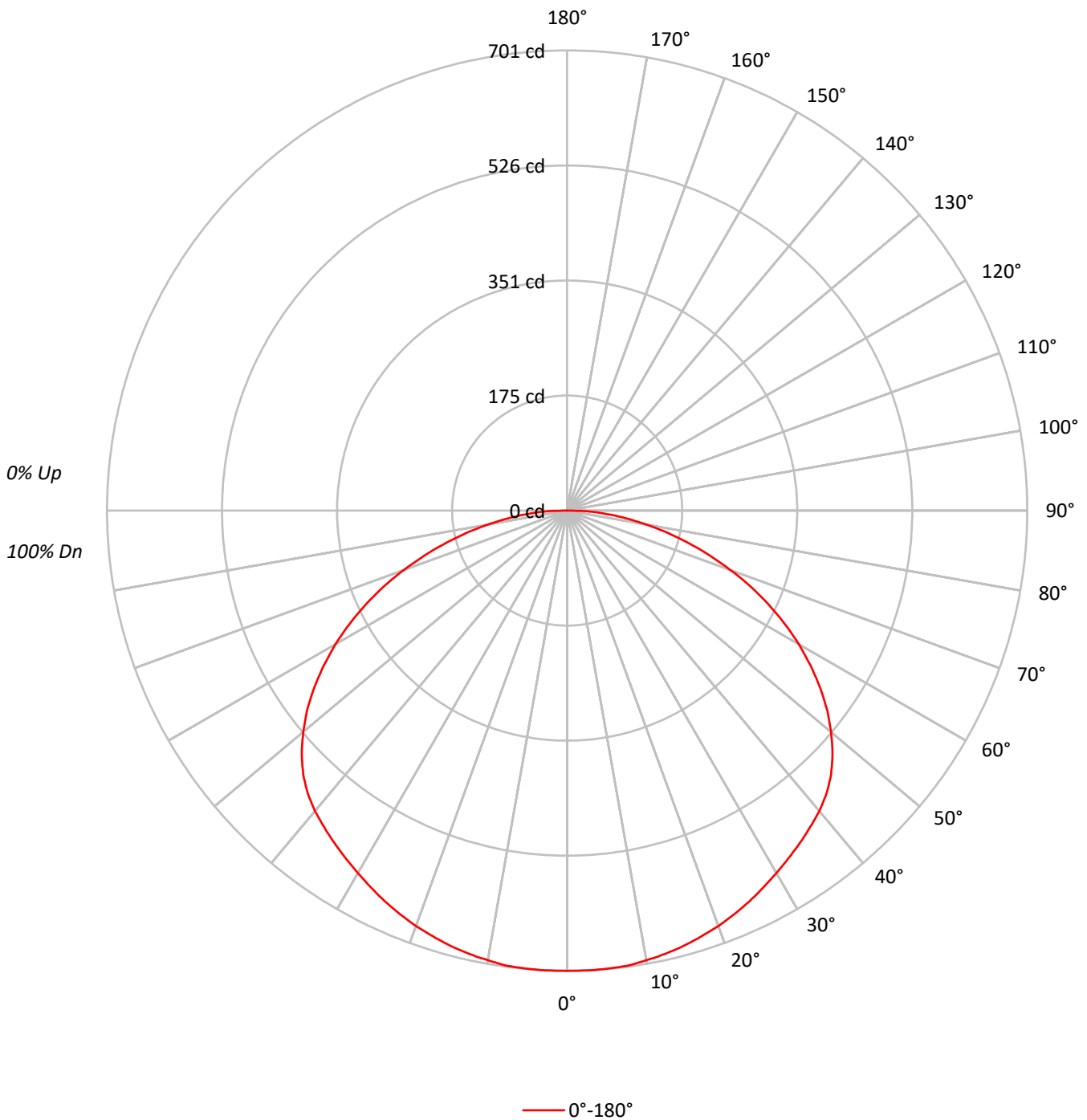
Lumens per Lamp: N/A
Luminaire Lumens: 2413.3 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: P866778

CATALOG NUMBER: PRLX-2001-L-930-67L-G-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P866778

CATALOG NUMBER: PRLX-2001-L-930-67L-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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3833
5°	3845
10°	3861
15°	3885
20°	3918
25°	3962
30°	4024
35°	4126
40°	4265
45°	4397
50°	4464
55°	4483
60°	4459
65°	4377
70°	4228
75°	4049
80°	3850
85°	3820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4484 cd/sqm

TEST NUMBER: P866778

CATALOG NUMBER: PRLX-2001-L-930-67L-G-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	2.8
10°-20°	194.0	8.0
20°-30°	303.3	12.6
30°-40°	387.7	16.1
40°-50°	437.4	18.1
50°-60°	419.7	17.4
60°-70°	334.3	13.9
70°-80°	203.0	8.4
80°-90°	67.3	2.8
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°	564.1	23.4
0°-40°	951.7	39.4
0°-60°	1808.8	74.9
0°-90°	2413.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2413.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	701	
5°	701	67
15°	686	194
25°	657	303
35°	618	388
45°	569	437
55°	470	420
65°	338	334
75°	192	203
85°	61	67
90°	0	

TEST NUMBER: P866778

CATALOG NUMBER: PRLX-2001-L-930-67L-G-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	701.2
2.5°	701.2
5°	700.7
7.5°	699.5
10°	695.6
12.5°	691.6
15°	686.5
17.5°	680.2
20°	673.4
22.5°	665.4
25°	656.9
27.5°	647.2
30°	637.5
32.5°	627.9
35°	618.2
37.5°	608.0
40°	597.7
42.5°	584.7
45°	568.7
47.5°	548.3
50°	524.9
52.5°	499.3
55°	470.3
57.5°	439.6
60°	407.8
62.5°	373.7
65°	338.4
67.5°	302.6
70°	264.5
72.5°	228.1
75°	191.7
77.5°	156.4
80°	122.3
82.5°	90.4
85°	60.9
87.5°	34.7
90°	0.0



TEST NUMBER: P866778
 CATALOG NUMBER: PRLX-2001-L-930-67L-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	17.63	19.34	17.99	19.65	19.96	17.63	19.34	17.99	19.65	19.96
	3H	19.59	21.14	19.96	21.47	21.83	19.59	21.14	19.96	21.47	21.83
	4H	20.35	21.82	20.74	22.16	22.54	20.35	21.82	20.74	22.16	22.54
	6H	20.95	22.31	21.36	22.67	23.06	20.95	22.31	21.36	22.67	23.06
	8H	21.16	22.47	21.59	22.86	23.26	21.16	22.47	21.59	22.86	23.26
	12H	21.34	22.59	21.76	22.97	23.40	21.34	22.59	21.76	22.97	23.40
4H	2H	18.32	19.79	18.71	20.13	20.51	18.32	19.79	18.71	20.13	20.51
	3H	20.50	21.74	20.91	22.14	22.53	20.50	21.74	20.91	22.14	22.53
	4H	21.40	22.52	21.83	22.93	23.37	21.40	22.52	21.83	22.93	23.37
	6H	22.14	23.13	22.59	23.56	24.02	22.14	23.13	22.59	23.56	24.02
	8H	22.41	23.34	22.87	23.78	24.24	22.41	23.34	22.87	23.78	24.24
	12H	22.64	23.48	23.12	23.96	24.42	22.64	23.48	23.12	23.96	24.42
8H	4H	21.76	22.69	22.22	23.13	23.59	21.76	22.69	22.22	23.13	23.59
	6H	22.64	23.42	23.13	23.91	24.38	22.64	23.42	23.13	23.91	24.38
	8H	23.01	23.71	23.52	24.21	24.70	23.01	23.71	23.52	24.21	24.70
	12H	23.34	23.96	23.85	24.45	25.01	23.34	23.96	23.85	24.45	25.01
12H	4H	21.81	22.65	22.29	23.12	23.59	21.81	22.65	22.29	23.12	23.59
	6H	22.73	23.43	23.23	23.93	24.41	22.73	23.43	23.23	23.93	24.41
	8H	23.16	23.78	23.67	24.27	24.83	23.16	23.78	23.67	24.27	24.83