

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: P867098

Luminaire Tested: PRLX-2002-L-935-67L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-67L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

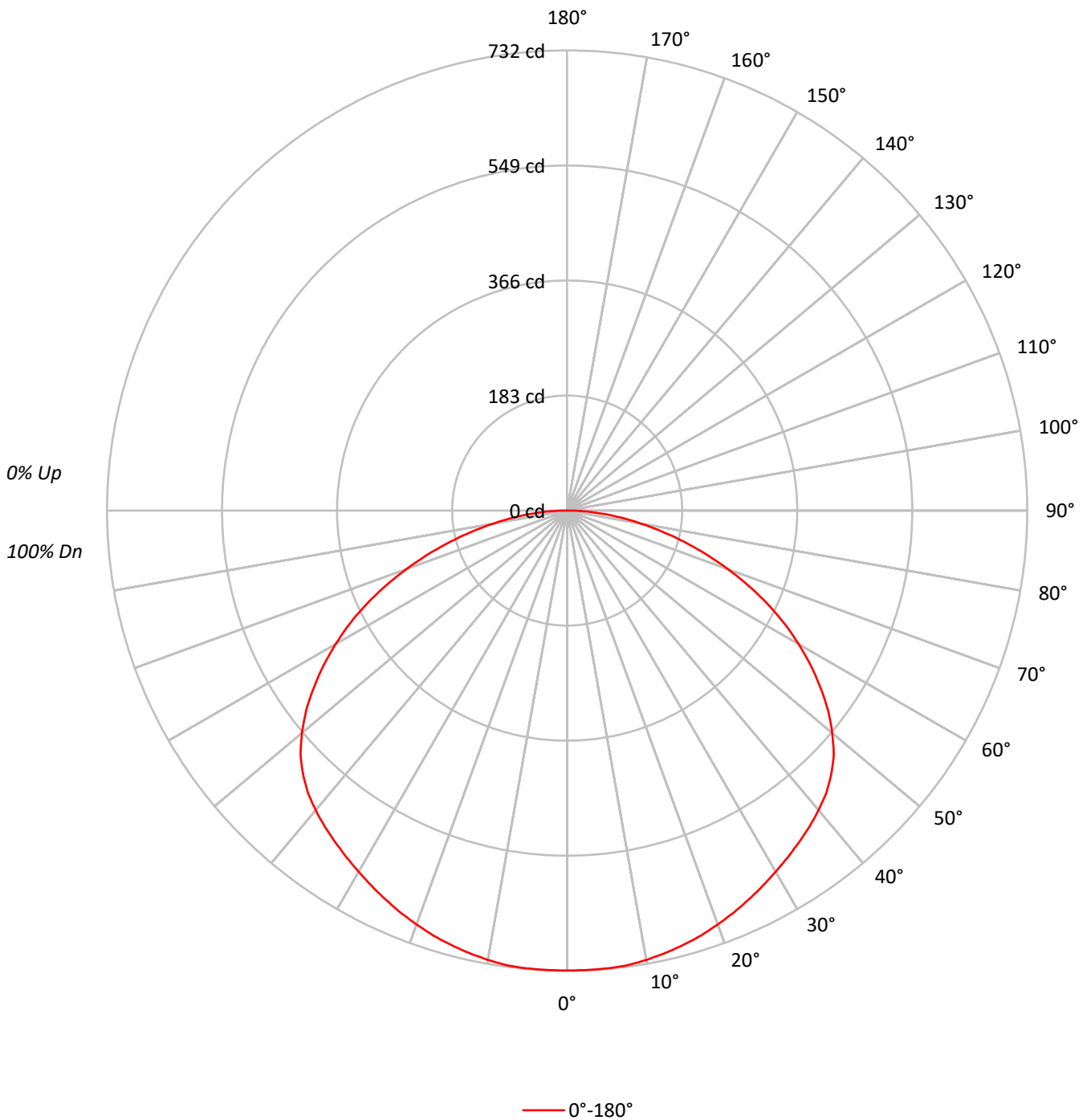
Lumens per Lamp: N/A
Luminaire Lumens: 2501.9 lumens
Efficiency: N/A
Efficacy: 49.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: P867098

CATALOG NUMBER: PRLX-2002-L-935-67L-G-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P867098

CATALOG NUMBER: PRLX-2002-L-935-67L-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	101	96	93	96	93	90		92	89	87		89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73		80	75	71		77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	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		50	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	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	29	24		35	28	23		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3610
5°	3620
10°	3636
15°	3653
20°	3678
25°	3717
30°	3779
35°	3876
40°	4008
45°	4145
50°	4226
55°	4236
60°	4198
65°	4109
70°	3917
75°	3685
80°	3390
85°	3125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4244 cd/sqm

TEST NUMBER: P867098

CATALOG NUMBER: PRLX-2002-L-935-67L-G-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	2.8
10°-20°	202.2	8.1
20°-30°	315.4	12.6
30°-40°	403.6	16.1
40°-50°	457.3	18.3
50°-60°	439.5	17.6
60°-70°	347.2	13.9
70°-80°	204.8	8.2
80°-90°	62.3	2.5
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°	587.3	23.5
0°-40°	990.9	39.6
0°-60°	1887.7	75.4
0°-90°	2501.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2501.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	732	
5°	731	70
15°	715	202
25°	683	315
35°	644	404
45°	594	457
55°	492	439
65°	352	347
75°	193	205
85°	55	62
90°	0	

TEST NUMBER: P867098

CATALOG NUMBER: PRLX-2002-L-935-67L-G-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	731.6
2.5°	731.6
5°	731.0
7.5°	729.8
10°	725.7
12.5°	721.0
15°	715.2
17.5°	708.7
20°	700.5
22.5°	692.2
25°	682.8
27.5°	673.4
30°	663.4
32.5°	653.5
35°	643.5
37.5°	633.5
40°	622.3
42.5°	610.0
45°	594.1
47.5°	575.3
50°	550.6
52.5°	523.6
55°	492.4
57.5°	460.1
60°	425.4
62.5°	390.2
65°	352.0
67.5°	312.6
70°	271.5
72.5°	232.7
75°	193.3
77.5°	155.1
80°	119.3
82.5°	85.8
85°	55.2
87.5°	28.2
90°	0.0



TEST NUMBER: P867098
 CATALOG NUMBER: PRLX-2002-L-935-67L-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	17.46	19.17	17.83	19.48	19.80	17.46	19.17	17.83	19.48	19.80
	3H	19.38	20.93	19.76	21.25	21.61	19.38	20.93	19.76	21.25	21.61
	4H	20.10	21.57	20.50	21.91	22.29	20.10	21.57	20.50	21.91	22.29
	6H	20.65	22.01	21.06	22.37	22.76	20.65	22.01	21.06	22.37	22.76
	8H	20.83	22.14	21.26	22.52	22.92	20.83	22.14	21.26	22.52	22.92
	12H	20.97	22.22	21.40	22.60	23.03	20.97	22.22	21.40	22.60	23.03
4H	2H	18.15	19.61	18.55	19.96	20.33	18.15	19.61	18.55	19.96	20.33
	3H	20.28	21.51	20.69	21.91	22.31	20.28	21.51	20.69	21.91	22.31
	4H	21.13	22.25	21.56	22.66	23.10	21.13	22.25	21.56	22.66	23.10
	6H	21.81	22.79	22.26	23.23	23.68	21.81	22.79	22.26	23.23	23.68
	8H	22.05	22.97	22.51	23.41	23.88	22.05	22.97	22.51	23.41	23.88
	12H	22.24	23.07	22.72	23.55	24.01	22.24	23.07	22.72	23.55	24.01
8H	4H	21.48	22.40	21.93	22.84	23.30	21.48	22.40	21.93	22.84	23.30
	6H	22.29	23.06	22.78	23.54	24.01	22.29	23.06	22.78	23.54	24.01
	8H	22.61	23.30	23.11	23.80	24.29	22.61	23.30	23.11	23.80	24.29
	12H	22.88	23.50	23.39	23.98	24.54	22.88	23.50	23.39	23.98	24.54
12H	4H	21.52	22.35	22.00	22.83	23.29	21.52	22.35	22.00	22.83	23.29
	6H	22.36	23.05	22.86	23.55	24.04	22.36	23.05	22.86	23.55	24.04
	8H	22.74	23.36	23.25	23.84	24.40	22.74	23.36	23.25	23.84	24.40