

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: P867302

Luminaire Tested: PRLX-2004-L-935-100L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-86)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-935-100L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

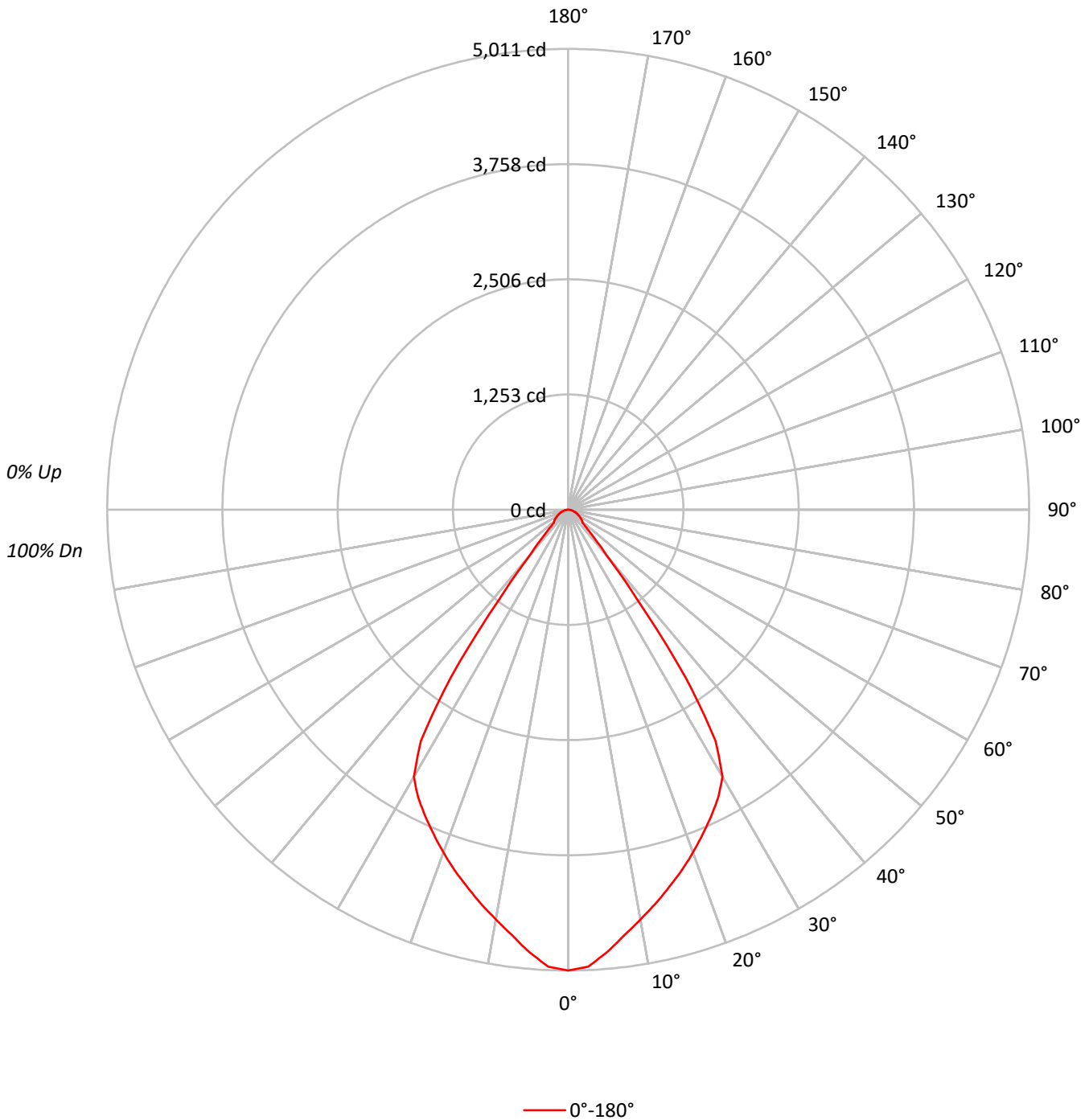
Lumens per Lamp: N/A
Luminaire Lumens: 5225.2 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867302

CATALOG NUMBER: PRLX-2004-L-935-100L-L-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P867302

CATALOG NUMBER: PRLX-2004-L-935-100L-L-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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	72	62	56	51	71	62	55	51	61	55	51	60	55	51	59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24723
5°	23919
10°	22667
15°	21683
20°	20822
25°	20010
30°	19106
35°	13384
40°	4211
45°	2042
50°	1523
55°	1469
60°	1370
65°	1267
70°	1180
75°	1102
80°	1037
85°	957

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2042 cd/sqm

TEST NUMBER: P867302

CATALOG NUMBER: PRLX-2004-L-935-100L-L-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.1	8.6
10°-20°	1195.7	22.9
20°-30°	1691.2	32.4
30°-40°	1287.8	24.6
40°-50°	258.9	5.0
50°-60°	151.8	2.9
60°-70°	108.0	2.1
70°-80°	61.6	1.2
80°-90°	19.0	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°	3338.1	63.9
0°-40°	4625.9	88.5
0°-60°	5036.6	96.4
0°-90°	5225.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5225.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5011	
5°	4830	451
15°	4245	1196
25°	3676	1691
35°	2222	1288
45°	293	259
55°	171	152
65°	108	108
75°	58	62
85°	17	19
90°	0	

TEST NUMBER: P867302

CATALOG NUMBER: PRLX-2004-L-935-100L-L-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	5011.0
2.5°	4973.6
5°	4829.5
7.5°	4667.6
10°	4524.4
12.5°	4386.5
15°	4245.1
17.5°	4109.9
20°	3965.7
22.5°	3819.9
25°	3675.7
27.5°	3529.9
30°	3353.7
32.5°	2981.0
35°	2222.2
37.5°	1228.5
40°	653.8
42.5°	432.3
45°	292.7
47.5°	210.8
50°	198.4
52.5°	185.9
55°	170.8
57.5°	153.9
60°	138.8
62.5°	122.8
65°	108.5
67.5°	95.2
70°	81.8
72.5°	69.4
75°	57.8
77.5°	47.1
80°	36.5
82.5°	26.7
85°	16.9
87.5°	8.0
90°	0.0

TEST NUMBER: P867302

CATALOG NUMBER: PRLX-2004-L-935-100L-L-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	8.12	9.17	8.48	9.48	9.80	8.12	9.17	8.48	9.48	9.80
	3H	9.68	10.61	10.06	10.94	11.31	9.68	10.61	10.06	10.94	11.31
	4H	10.27	11.13	10.68	11.49	11.88	10.27	11.13	10.68	11.49	11.88
	6H	10.73	11.52	11.14	11.89	12.29	10.73	11.52	11.14	11.89	12.29
	8H	10.88	11.63	11.32	12.02	12.43	10.88	11.63	11.32	12.02	12.43
	12H	10.98	11.69	11.42	12.08	12.51	10.98	11.69	11.42	12.08	12.51
4H	2H	8.58	9.44	8.99	9.80	10.18	8.58	9.44	8.99	9.80	10.18
	3H	10.35	11.06	10.77	11.47	11.87	10.35	11.06	10.77	11.47	11.87
	4H	11.07	11.70	11.51	12.12	12.57	11.07	11.70	11.51	12.12	12.57
	6H	11.66	12.20	12.13	12.65	13.12	11.66	12.20	12.13	12.65	13.12
	8H	11.86	12.36	12.33	12.81	13.29	11.86	12.36	12.33	12.81	13.29
	12H	12.00	12.44	12.49	12.93	13.41	12.00	12.44	12.49	12.93	13.41
8H	4H	11.29	11.79	11.76	12.24	12.72	11.29	11.79	11.76	12.24	12.72
	6H	12.02	12.42	12.52	12.92	13.40	12.02	12.42	12.52	12.92	13.40
	8H	12.30	12.66	12.84	13.18	13.68	12.30	12.66	12.84	13.18	13.68
	12H	12.54	12.85	13.06	13.35	13.93	12.54	12.85	13.06	13.35	13.93
12H	4H	11.29	11.73	11.78	12.22	12.69	11.29	11.73	11.78	12.22	12.69
	6H	12.05	12.41	12.58	12.93	13.43	12.05	12.41	12.58	12.93	13.43
	8H	12.40	12.71	12.92	13.21	13.79	12.40	12.71	12.92	13.21	13.79