

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: P866802

Luminaire Tested: PRLX-2001-L-935-117L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866802
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: Prenalux
Catalog Number: PRLX-2001-L-935-117L-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 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

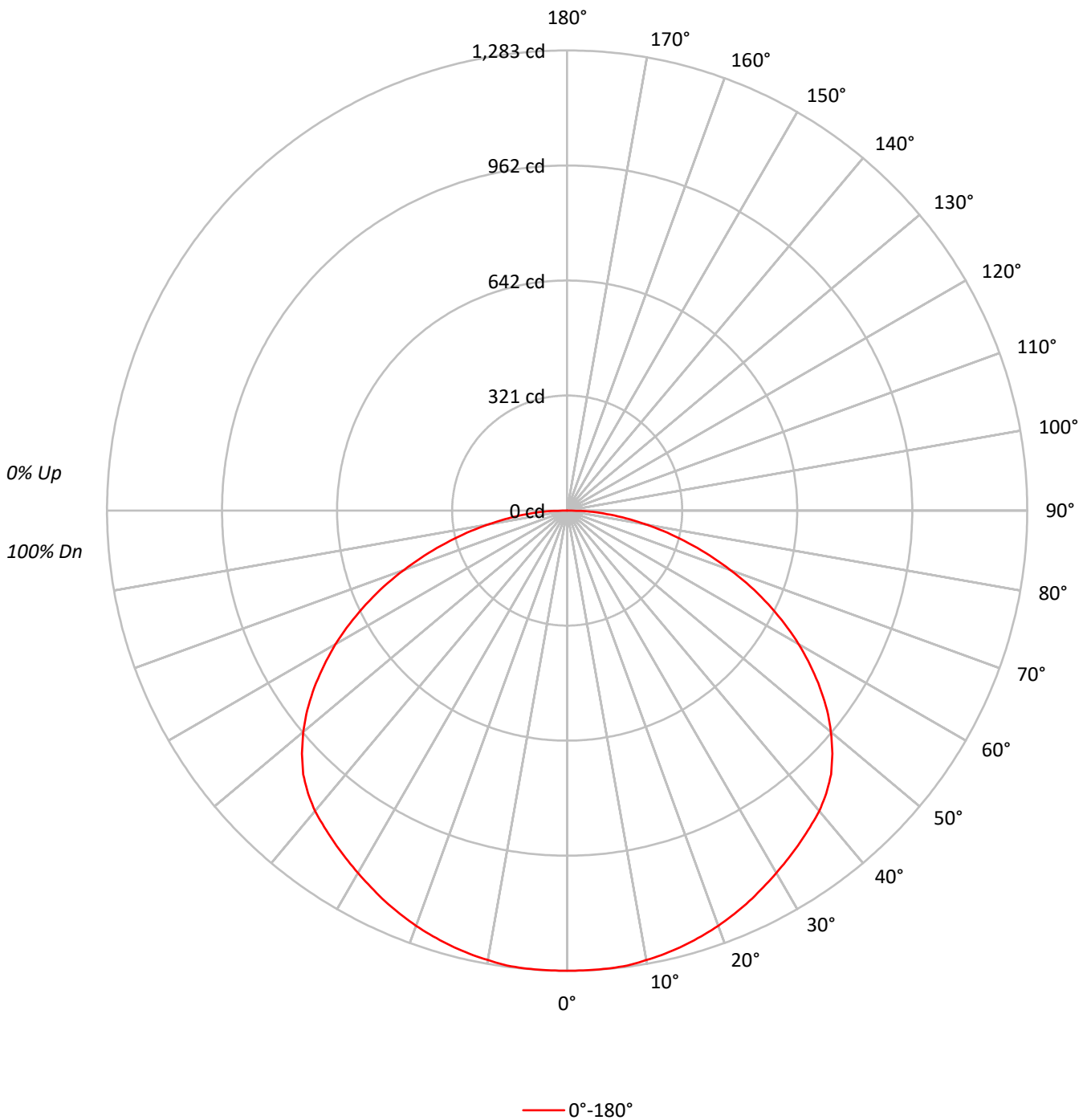
Lumens per Lamp: N/A
Luminaire Lumens: 4415.4 lumens
Efficiency: N/A
Efficacy: 46.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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: P866802

CATALOG NUMBER: PRLX-2001-L-935-117L-G-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P866802

CATALOG NUMBER: PRLX-2001-L-935-117L-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°	7014
5°	7035
10°	7064
15°	7108
20°	7167
25°	7249
30°	7364
35°	7549
40°	7804
45°	8045
50°	8168
55°	8202
60°	8158
65°	8008
70°	7735
75°	7408
80°	7043
85°	6981

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 8204 cd/sqm

TEST NUMBER: P866802

CATALOG NUMBER: PRLX-2001-L-935-117L-G-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	2.8
10°-20°	355.0	8.0
20°-30°	554.8	12.6
30°-40°	709.3	16.1
40°-50°	800.2	18.1
50°-60°	767.8	17.4
60°-70°	611.6	13.9
70°-80°	371.4	8.4
80°-90°	123.0	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°	1032.0	23.4
0°-40°	1741.3	39.4
0°-60°	3309.4	75.0
0°-90°	4415.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4415.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1283	
5°	1282	122
15°	1256	355
25°	1202	555
35°	1131	709
45°	1041	800
55°	860	768
65°	619	612
75°	351	371
85°	111	123
90°	0	

TEST NUMBER: P866802

CATALOG NUMBER: PRLX-2001-L-935-117L-G-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	1283.0
2.5°	1283.0
5°	1282.0
7.5°	1279.9
10°	1272.6
12.5°	1265.3
15°	1255.9
17.5°	1244.5
20°	1232.0
22.5°	1217.4
25°	1201.8
27.5°	1184.1
30°	1166.5
32.5°	1148.8
35°	1131.1
37.5°	1112.3
40°	1093.6
42.5°	1069.7
45°	1040.6
47.5°	1003.1
50°	960.4
52.5°	913.6
55°	860.5
57.5°	804.3
60°	746.1
62.5°	683.6
65°	619.1
67.5°	553.6
70°	483.9
72.5°	417.3
75°	350.7
77.5°	286.2
80°	223.7
82.5°	165.4
85°	111.3
87.5°	63.5
90°	0.0



TEST NUMBER: P866802
 CATALOG NUMBER: PRLX-2001-L-935-117L-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	19.72	21.43	20.09	21.75	22.06	19.72	21.43	20.09	21.75	22.06
	3H	21.69	23.24	22.06	23.57	23.93	21.69	23.24	22.06	23.57	23.93
	4H	22.45	23.91	22.84	24.26	24.63	22.45	23.91	22.84	24.26	24.63
	6H	23.05	24.41	23.46	24.77	25.16	23.05	24.41	23.46	24.77	25.16
	8H	23.26	24.57	23.69	24.96	25.35	23.26	24.57	23.69	24.96	25.35
	12H	23.43	24.69	23.86	25.07	25.50	23.43	24.69	23.86	25.07	25.50
4H	2H	20.42	21.89	20.81	22.23	22.61	20.42	21.89	20.81	22.23	22.61
	3H	22.60	23.84	23.01	24.23	24.63	22.60	23.84	23.01	24.23	24.63
	4H	23.49	24.62	23.92	25.03	25.47	23.49	24.62	23.92	25.03	25.47
	6H	24.24	25.22	24.69	25.66	26.12	24.24	25.22	24.69	25.66	26.12
	8H	24.51	25.44	24.97	25.88	26.34	24.51	25.44	24.97	25.88	26.34
	12H	24.74	25.58	25.22	26.05	26.52	24.74	25.58	25.22	26.05	26.52
8H	4H	23.86	24.79	24.32	25.23	25.69	23.86	24.79	24.32	25.23	25.69
	6H	24.74	25.52	25.23	26.00	26.48	24.74	25.52	25.23	26.00	26.48
	8H	25.11	25.81	25.62	26.31	26.79	25.11	25.81	25.62	26.31	26.79
	12H	25.44	26.06	25.94	26.55	27.10	25.44	26.06	25.94	26.55	27.10
12H	4H	23.91	24.75	24.39	25.22	25.69	23.91	24.75	24.39	25.22	25.69
	6H	24.83	25.52	25.33	26.03	26.51	24.83	25.52	25.33	26.03	26.51
	8H	25.26	25.88	25.77	26.37	26.93	25.26	25.88	25.77	26.37	26.93