

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: P867042

Luminaire Tested: PRLX-2002-L-930-83L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867042
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: Prenalux
Catalog Number: PRLX-2002-L-930-83L-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 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

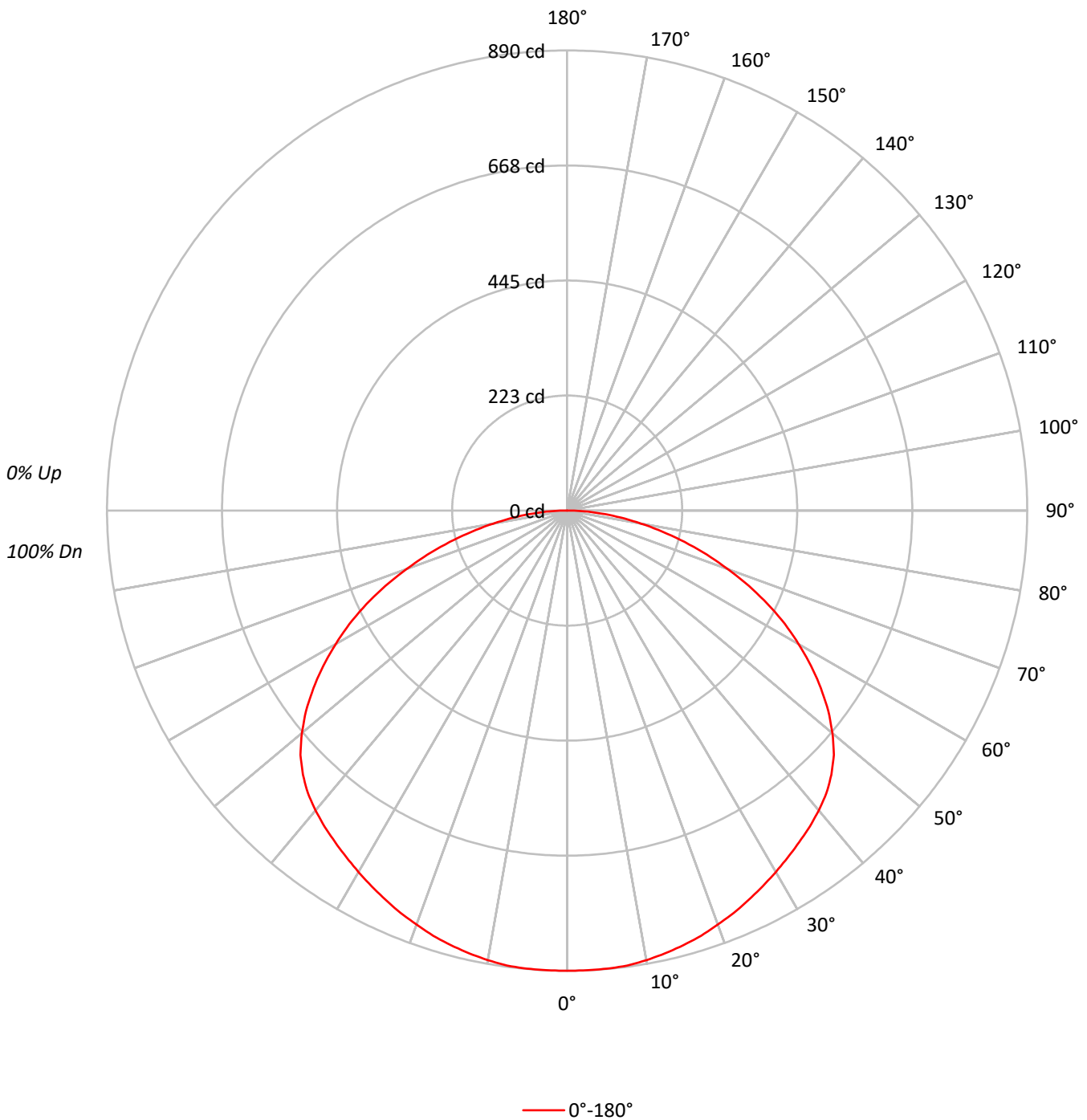
Lumens per Lamp: N/A
Luminaire Lumens: 3043.6 lumens
Efficiency: N/A
Efficacy: 47.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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: P867042

CATALOG NUMBER: PRLX-2002-L-930-83L-G-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P867042

CATALOG NUMBER: PRLX-2002-L-930-83L-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°	4391
5°	4404
10°	4423
15°	4444
20°	4474
25°	4522
30°	4598
35°	4715
40°	4876
45°	5043
50°	5141
55°	5153
60°	5106
65°	4999
70°	4765
75°	4484
80°	4123
85°	3804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 5162 cd/sqm

TEST NUMBER: P867042

CATALOG NUMBER: PRLX-2002-L-930-83L-G-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	2.8
10°-20°	245.9	8.1
20°-30°	383.7	12.6
30°-40°	491.0	16.1
40°-50°	556.3	18.3
50°-60°	534.6	17.6
60°-70°	422.4	13.9
70°-80°	249.1	8.2
80°-90°	75.8	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°	714.4	23.5
0°-40°	1205.4	39.6
0°-60°	2296.3	75.4
0°-90°	3043.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3043.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	890	
5°	889	85
15°	870	246
25°	831	384
35°	783	491
45°	723	556
55°	599	535
65°	428	422
75°	235	249
85°	67	76
90°	0	

TEST NUMBER: P867042

CATALOG NUMBER: PRLX-2002-L-930-83L-G-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	890.0
2.5°	890.0
5°	889.3
7.5°	887.8
10°	882.8
12.5°	877.1
15°	870.0
17.5°	862.1
20°	852.1
22.5°	842.1
25°	830.7
27.5°	819.2
30°	807.1
32.5°	794.9
35°	782.8
37.5°	770.6
40°	757.0
42.5°	742.0
45°	722.7
47.5°	699.8
50°	669.8
52.5°	636.9
55°	599.0
57.5°	559.7
60°	517.5
62.5°	474.7
65°	428.2
67.5°	380.3
70°	330.3
72.5°	283.1
75°	235.2
77.5°	188.7
80°	145.1
82.5°	104.4
85°	67.2
87.5°	34.3
90°	0.0



TEST NUMBER: P867042
 CATALOG NUMBER: PRLX-2002-L-930-83L-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	18.14	19.85	18.51	20.17	20.48	18.14	19.85	18.51	20.17	20.48
	3H	20.06	21.61	20.44	21.94	22.29	20.06	21.61	20.44	21.94	22.29
	4H	20.78	22.25	21.18	22.59	22.97	20.78	22.25	21.18	22.59	22.97
	6H	21.33	22.69	21.74	23.05	23.44	21.33	22.69	21.74	23.05	23.44
	8H	21.52	22.82	21.94	23.20	23.60	21.52	22.82	21.94	23.20	23.60
	12H	21.65	22.90	22.08	23.28	23.71	21.65	22.90	22.08	23.28	23.71
4H	2H	18.83	20.29	19.23	20.64	21.01	18.83	20.29	19.23	20.64	21.01
	3H	20.96	22.19	21.37	22.59	22.99	20.96	22.19	21.37	22.59	22.99
	4H	21.81	22.93	22.24	23.35	23.78	21.81	22.93	22.24	23.35	23.78
	6H	22.49	23.47	22.94	23.91	24.37	22.49	23.47	22.94	23.91	24.37
	8H	22.73	23.65	23.19	24.09	24.56	22.73	23.65	23.19	24.09	24.56
	12H	22.92	23.75	23.40	24.23	24.69	22.92	23.75	23.40	24.23	24.69
8H	4H	22.16	23.08	22.62	23.52	23.98	22.16	23.08	22.62	23.52	23.98
	6H	22.97	23.74	23.46	24.22	24.70	22.97	23.74	23.46	24.22	24.70
	8H	23.29	23.98	23.80	24.48	24.97	23.29	23.98	23.80	24.48	24.97
	12H	23.57	24.18	24.07	24.67	25.22	23.57	24.18	24.07	24.67	25.22
12H	4H	22.20	23.03	22.68	23.51	23.97	22.20	23.03	22.68	23.51	23.97
	6H	23.04	23.73	23.54	24.23	24.72	23.04	23.73	23.54	24.23	24.72
	8H	23.42	24.04	23.93	24.53	25.08	23.42	24.04	23.93	24.53	25.08