

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: P866746

Luminaire Tested: PRLX-2001-L-930-133L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866746
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-930-133L-G-X-X-GREY-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

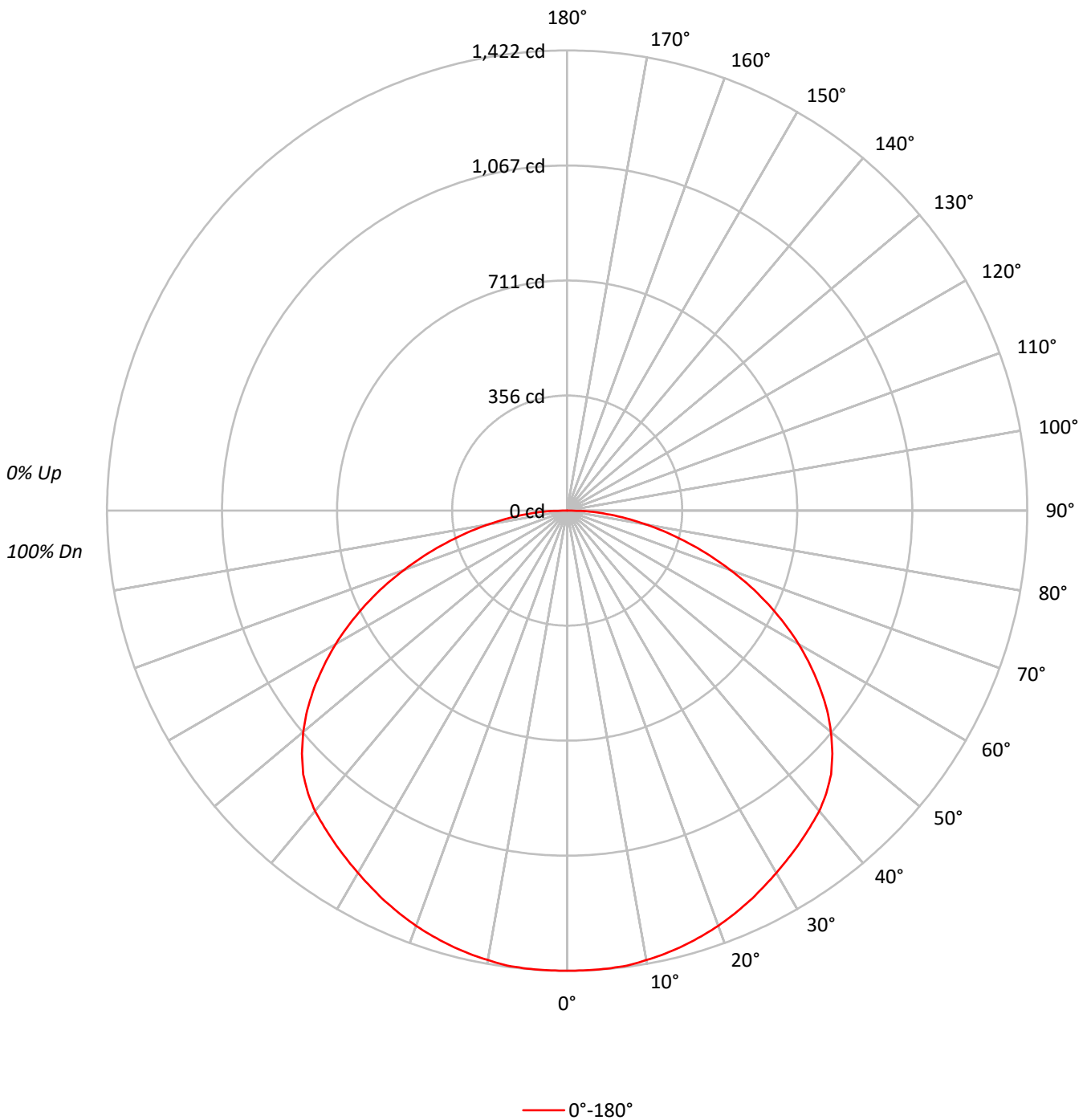
Lumens per Lamp: N/A
Luminaire Lumens: 4893.3 lumens
Efficiency: N/A
Efficacy: 43.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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: P866746

CATALOG NUMBER: PRLX-2001-L-930-133L-G-X-X-GREY-X

Luminous Intensity Polar Plot





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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°	7773
5°	7796
10°	7829
15°	7878
20°	7943
25°	8034
30°	8160
35°	8366
40°	8649
45°	8916
50°	9053
55°	9090
60°	9040
65°	8875
70°	8571
75°	8208
80°	7804
85°	7740

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 9093 cd/sqm

TEST NUMBER: P866746

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	2.8
10°-20°	393.5	8.0
20°-30°	614.9	12.6
30°-40°	786.1	16.1
40°-50°	886.8	18.1
50°-60°	851.0	17.4
60°-70°	677.8	13.9
70°-80°	411.5	8.4
80°-90°	136.4	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°	1143.7	23.4
0°-40°	1929.8	39.4
0°-60°	3667.6	75.0
0°-90°	4893.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4893.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1422	
5°	1421	135
15°	1392	393
25°	1332	615
35°	1254	786
45°	1153	887
55°	954	851
65°	686	678
75°	389	412
85°	123	136
90°	0	

TEST NUMBER: P866746

CATALOG NUMBER: PRLX-2001-L-930-133L-G-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	1421.9
2.5°	1421.9
5°	1420.7
7.5°	1418.4
10°	1410.4
12.5°	1402.3
15°	1391.9
17.5°	1379.2
20°	1365.4
22.5°	1349.2
25°	1331.9
27.5°	1312.3
30°	1292.7
32.5°	1273.1
35°	1253.5
37.5°	1232.8
40°	1212.0
42.5°	1185.5
45°	1153.2
47.5°	1111.7
50°	1064.4
52.5°	1012.5
55°	953.7
57.5°	891.4
60°	826.8
62.5°	757.6
65°	686.1
67.5°	613.5
70°	536.2
72.5°	462.4
75°	388.6
77.5°	317.1
80°	247.9
82.5°	183.4
85°	123.4
87.5°	70.3
90°	0.0

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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	20.08	21.79	20.45	22.11	22.42	20.08	21.79	20.45	22.11	22.42
	3H	22.04	23.60	22.42	23.92	24.28	22.04	23.60	22.42	23.92	24.28
	4H	22.80	24.27	23.20	24.62	24.99	22.80	24.27	23.20	24.62	24.99
	6H	23.40	24.77	23.81	25.13	25.52	23.40	24.77	23.81	25.13	25.52
	8H	23.62	24.93	24.04	25.31	25.71	23.62	24.93	24.04	25.31	25.71
	12H	23.79	25.05	24.22	25.43	25.85	23.79	25.05	24.22	25.43	25.85
4H	2H	20.77	22.24	21.17	22.59	22.96	20.77	22.24	21.17	22.59	22.96
	3H	22.96	24.20	23.36	24.59	24.99	22.96	24.20	23.36	24.59	24.99
	4H	23.85	24.98	24.28	25.39	25.82	23.85	24.98	24.28	25.39	25.82
	6H	24.59	25.58	25.04	26.02	26.47	24.59	25.58	25.04	26.02	26.47
	8H	24.87	25.80	25.33	26.24	26.70	24.87	25.80	25.33	26.24	26.70
	12H	25.10	25.94	25.58	26.41	26.88	25.10	25.94	25.58	26.41	26.88
8H	4H	24.22	25.14	24.67	25.59	26.05	24.22	25.14	24.67	25.59	26.05
	6H	25.10	25.88	25.59	26.36	26.83	25.10	25.88	25.59	26.36	26.83
	8H	25.47	26.16	25.97	26.67	27.15	25.47	26.16	25.97	26.67	27.15
	12H	25.80	26.42	26.30	26.90	27.46	25.80	26.42	26.30	26.90	27.46
12H	4H	24.27	25.11	24.75	25.58	26.05	24.27	25.11	24.75	25.58	26.05
	6H	25.18	25.88	25.69	26.38	26.87	25.18	25.88	25.69	26.38	26.87
	8H	25.62	26.24	26.12	26.73	27.28	25.62	26.24	26.12	26.73	27.28