

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: P867254

Luminaire Tested: PRLX-2004-L-930-133L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867254
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-930-133L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

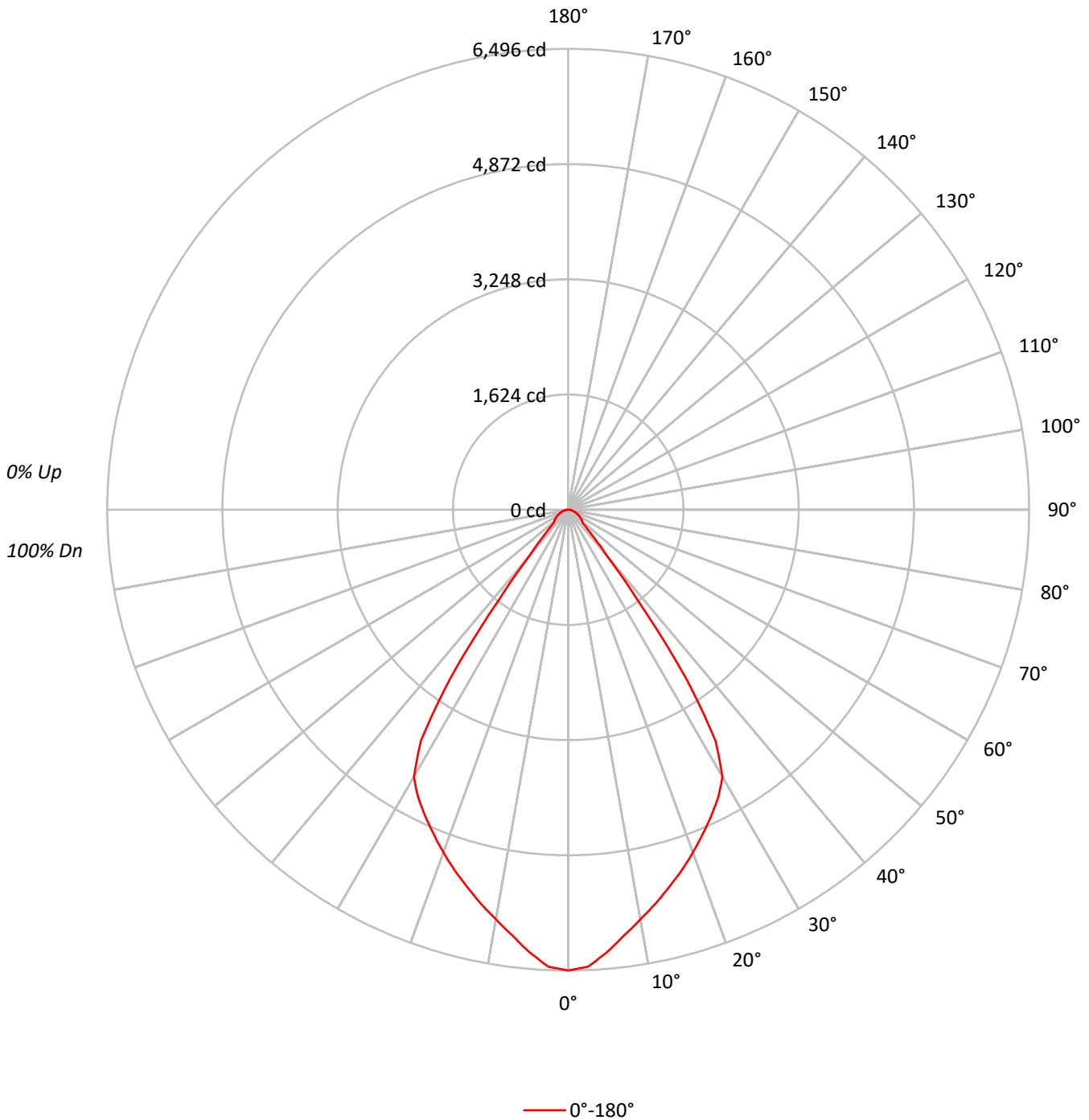
Lumens per Lamp: N/A
Luminaire Lumens: 6773.7 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
Input Voltage (V): 120
Input Current (Ain): 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: P867254

CATALOG NUMBER: PRLX-2004-L-930-133L-L-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P867254

CATALOG NUMBER: PRLX-2004-L-930-133L-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°	32050
5°	31007
10°	29384
15°	28109
20°	26992
25°	25940
30°	24768
35°	17351
40°	5459
45°	2647
50°	1974
55°	1904
60°	1775
65°	1643
70°	1531
75°	1430
80°	1344
85°	1240

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2647 cd/sqm

TEST NUMBER: P867254

CATALOG NUMBER: PRLX-2004-L-930-133L-L-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.8	8.6
10°-20°	1550.1	22.9
20°-30°	2192.4	32.4
30°-40°	1669.5	24.6
40°-50°	335.6	5.0
50°-60°	196.8	2.9
60°-70°	140.0	2.1
70°-80°	79.8	1.2
80°-90°	24.6	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°	4327.2	63.9
0°-40°	5996.7	88.5
0°-60°	6529.2	96.4
0°-90°	6773.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6773.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6496	
5°	6261	585
15°	5503	1550
25°	4765	2192
35°	2881	1669
45°	379	336
55°	221	197
65°	141	140
75°	75	80
85°	22	25
90°	0	

TEST NUMBER: P867254

CATALOG NUMBER: PRLX-2004-L-930-133L-L-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	6495.9
2.5°	6447.5
5°	6260.7
7.5°	6050.8
10°	5865.1
12.5°	5686.4
15°	5503.0
17.5°	5327.8
20°	5140.9
22.5°	4951.8
25°	4765.0
27.5°	4575.9
30°	4347.5
32.5°	3864.4
35°	2880.7
37.5°	1592.6
40°	847.6
42.5°	560.5
45°	379.4
47.5°	273.3
50°	257.2
52.5°	241.0
55°	221.4
57.5°	199.5
60°	179.9
62.5°	159.1
65°	140.7
67.5°	123.4
70°	106.1
72.5°	89.9
75°	75.0
77.5°	61.1
80°	47.3
82.5°	34.6
85°	21.9
87.5°	10.4
90°	0.0

TEST NUMBER: P867254

CATALOG NUMBER: PRLX-2004-L-930-133L-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	9.02	10.07	9.38	10.38	10.70	9.02	10.07	9.38	10.38	10.70
	3H	10.58	11.51	10.96	11.84	12.21	10.58	11.51	10.96	11.84	12.21
	4H	11.17	12.04	11.58	12.39	12.78	11.17	12.04	11.58	12.39	12.78
	6H	11.63	12.42	12.05	12.79	13.19	11.63	12.42	12.05	12.79	13.19
	8H	11.79	12.53	12.22	12.92	13.33	11.79	12.53	12.22	12.92	13.33
	12H	11.89	12.59	12.32	12.98	13.41	11.89	12.59	12.32	12.98	13.41
4H	2H	9.48	10.34	9.89	10.70	11.09	9.48	10.34	9.89	10.70	11.09
	3H	11.26	11.96	11.67	12.37	12.78	11.26	11.96	11.67	12.37	12.78
	4H	11.97	12.60	12.41	13.03	13.47	11.97	12.60	12.41	13.03	13.47
	6H	12.56	13.10	13.03	13.55	14.02	12.56	13.10	13.03	13.55	14.02
	8H	12.76	13.27	13.24	13.72	14.19	12.76	13.27	13.24	13.72	14.19
	12H	12.91	13.34	13.40	13.83	14.31	12.91	13.34	13.40	13.83	14.31
8H	4H	12.19	12.70	12.67	13.15	13.62	12.19	12.70	12.67	13.15	13.62
	6H	12.92	13.32	13.43	13.82	14.31	12.92	13.32	13.43	13.82	14.31
	8H	13.21	13.56	13.74	14.09	14.58	13.21	13.56	13.74	14.09	14.58
	12H	13.44	13.75	13.97	14.25	14.83	13.44	13.75	13.97	14.25	14.83
12H	4H	12.19	12.63	12.68	13.12	13.60	12.19	12.63	12.68	13.12	13.60
	6H	12.96	13.31	13.49	13.84	14.33	12.96	13.31	13.49	13.84	14.33
	8H	13.31	13.62	13.83	14.11	14.69	13.31	13.62	13.83	14.11	14.69