

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: P867323

Luminaire Tested: PRLX-2004-L-935-133L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-935-133L-G-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

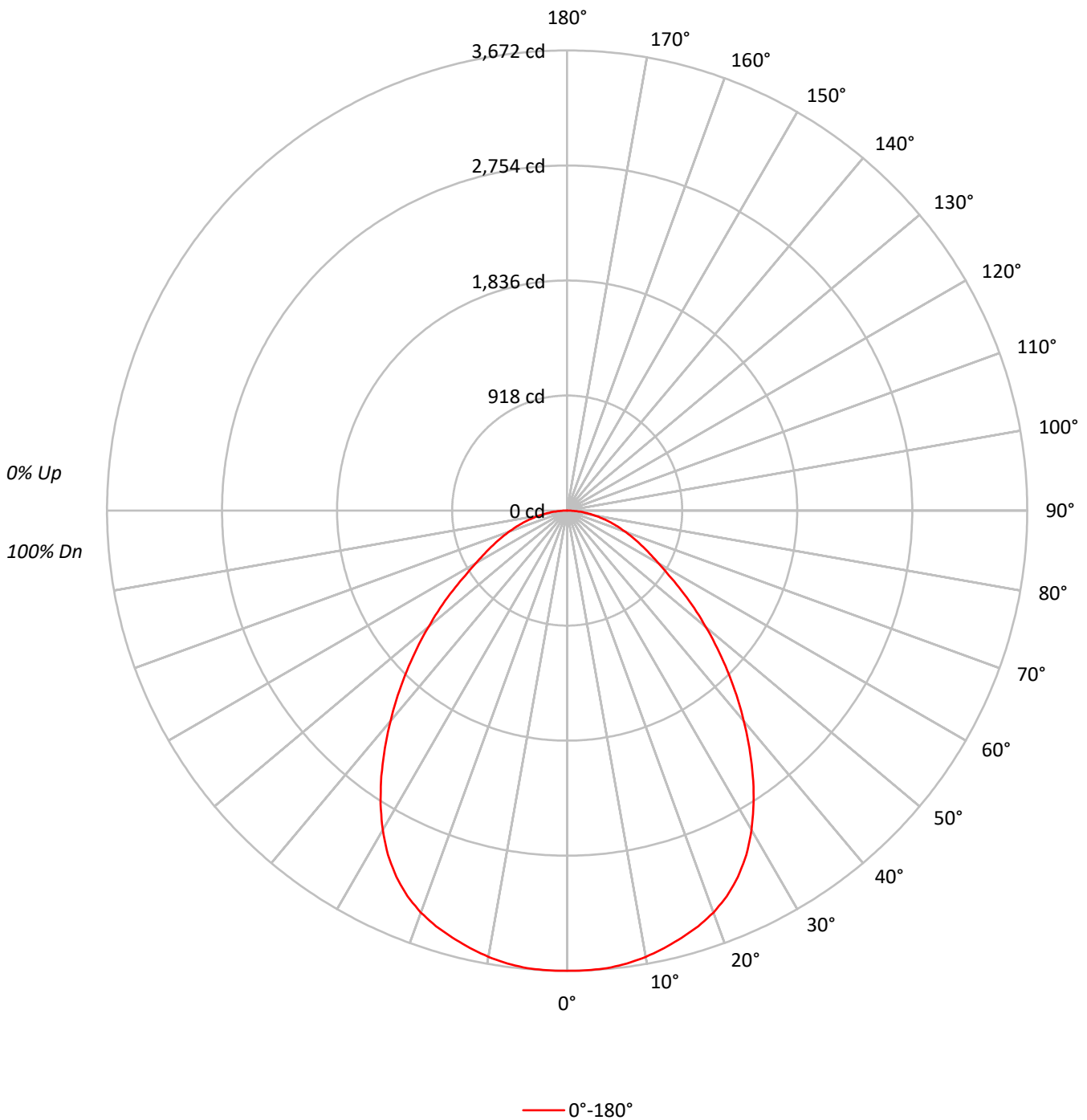
Lumens per Lamp: N/A
Luminaire Lumens: 7972.6 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: P867323

CATALOG NUMBER: PRLX-2004-L-935-133L-G-X-X-WHHR-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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18118
5°	18152
10°	18117
15°	18033
20°	17923
25°	17559
30°	16767
35°	15566
40°	14128
45°	12612
50°	11084
55°	9573
60°	8301
65°	7623
70°	7116
75°	6678
80°	6296
85°	5938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12612 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.3	4.4
10°-20°	996.3	12.5
20°-30°	1478.5	18.5
30°-40°	1610.3	20.2
40°-50°	1396.2	17.5
50°-60°	1003.3	12.6
60°-70°	650.7	8.2
70°-80°	372.4	4.7
80°-90°	116.7	1.5
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°	2823.1	35.4
0°-40°	4433.4	55.6
0°-60°	6832.9	85.7
0°-90°	7972.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7972.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3672	
5°	3665	348
15°	3530	996
25°	3226	1479
35°	2584	1610
45°	1808	1396
55°	1113	1003
65°	653	651
75°	350	372
85°	105	117
90°	0	

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CATALOG NUMBER: PRLX-2004-L-935-133L-G-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	3672.3
2.5°	3672.3
5°	3665.1
7.5°	3646.1
10°	3616.3
12.5°	3575.8
15°	3530.5
17.5°	3478.1
20°	3413.7
22.5°	3331.5
25°	3225.5
27.5°	3096.8
30°	2943.1
32.5°	2770.3
35°	2584.4
37.5°	2389.0
40°	2193.6
42.5°	2000.6
45°	1807.5
47.5°	1625.2
50°	1444.1
52.5°	1277.3
55°	1112.9
57.5°	963.9
60°	841.2
62.5°	741.1
65°	653.0
67.5°	569.5
70°	493.3
72.5°	419.4
75°	350.3
77.5°	284.8
80°	221.6
82.5°	162.0
85°	104.9
87.5°	51.2
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	18.82	20.32	19.18	20.63	20.94	18.82	20.32	19.18	20.63	20.94
	3H	20.33	21.67	20.71	22.00	22.36	20.33	21.67	20.71	22.00	22.36
	4H	20.93	22.19	21.33	22.54	22.92	20.93	22.19	21.33	22.54	22.92
	6H	21.41	22.57	21.82	22.94	23.33	21.41	22.57	21.82	22.94	23.33
	8H	21.58	22.69	22.00	23.08	23.48	21.58	22.69	22.00	23.08	23.48
	12H	21.70	22.76	22.13	23.14	23.57	21.70	22.76	22.13	23.14	23.57
4H	2H	19.32	20.58	19.72	20.93	21.31	19.32	20.58	19.72	20.93	21.31
	3H	21.07	22.12	21.48	22.52	22.92	21.07	22.12	21.48	22.52	22.92
	4H	21.81	22.75	22.24	23.17	23.60	21.81	22.75	22.24	23.17	23.60
	6H	22.42	23.24	22.88	23.69	24.15	22.42	23.24	22.88	23.69	24.15
	8H	22.65	23.41	23.11	23.86	24.33	22.65	23.41	23.11	23.86	24.33
	12H	22.82	23.51	23.30	23.98	24.46	22.82	23.51	23.30	23.98	24.46
8H	4H	22.08	22.85	22.55	23.30	23.76	22.08	22.85	22.55	23.30	23.76
	6H	22.83	23.47	23.33	23.96	24.44	22.83	23.47	23.33	23.96	24.44
	8H	23.14	23.71	23.65	24.22	24.71	23.14	23.71	23.65	24.22	24.71
	12H	23.40	23.90	23.91	24.40	24.96	23.40	23.90	23.91	24.40	24.96
12H	4H	22.11	22.80	22.59	23.28	23.75	22.11	22.80	22.59	23.28	23.75
	6H	22.89	23.46	23.40	23.97	24.46	22.89	23.46	23.40	23.97	24.46
	8H	23.25	23.76	23.76	24.25	24.82	23.25	23.76	23.76	24.25	24.82