

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: P867243

Luminaire Tested: PRLX-2004-L-930-100L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867243
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-930-100L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

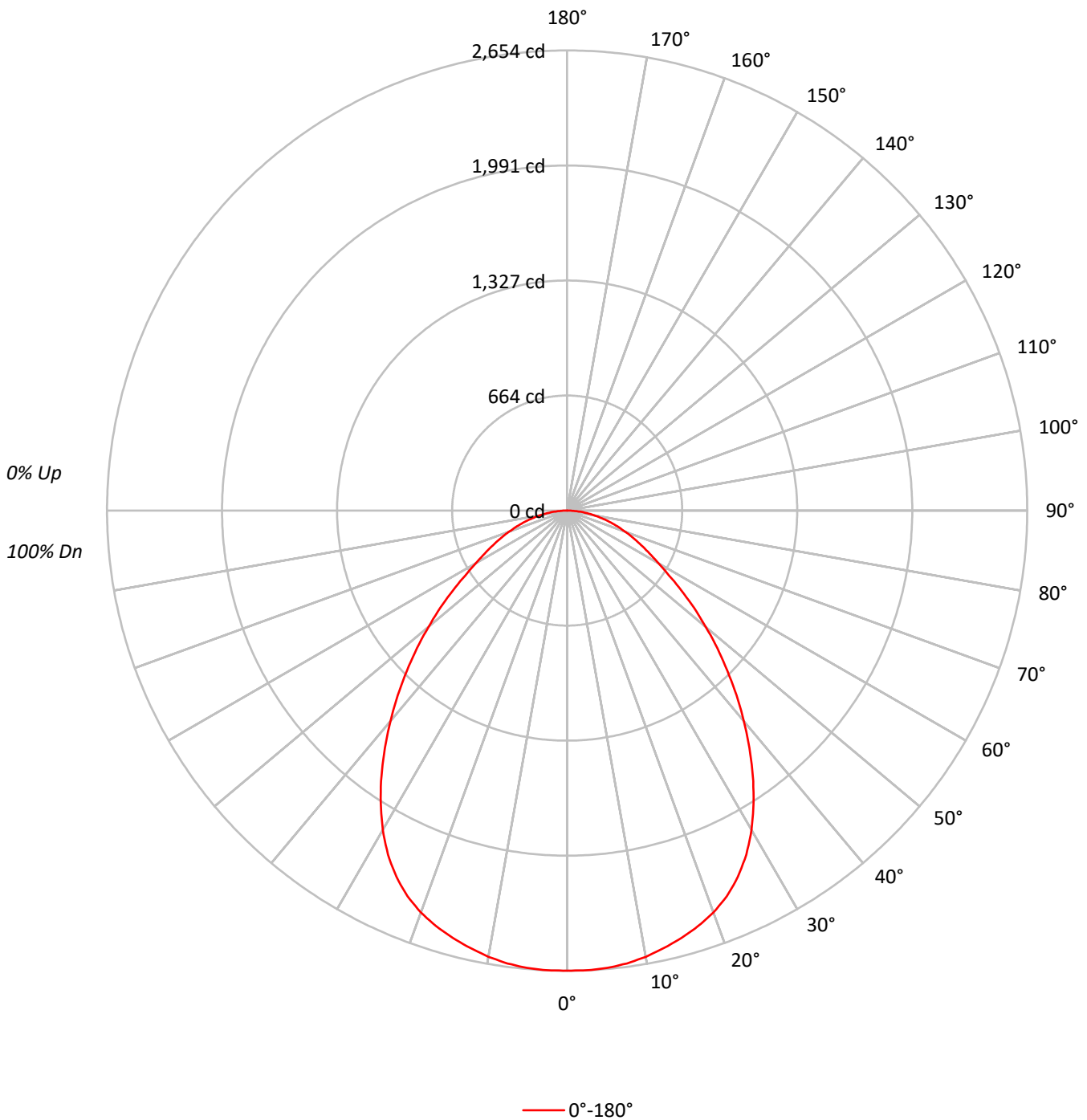
Lumens per Lamp: N/A
Luminaire Lumens: 5760.8 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867243

CATALOG NUMBER: PRLX-2004-L-930-100L-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°	13092
5°	13116
10°	13091
15°	13030
20°	12951
25°	12687
30°	12115
35°	11247
40°	10208
45°	9113
50°	8010
55°	6917
60°	5998
65°	5508
70°	5141
75°	4825
80°	4549
85°	4291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9113 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.6	4.4
10°-20°	719.9	12.5
20°-30°	1068.3	18.5
30°-40°	1163.5	20.2
40°-50°	1008.9	17.5
50°-60°	725.0	12.6
60°-70°	470.1	8.2
70°-80°	269.1	4.7
80°-90°	84.3	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°	2039.9	35.4
0°-40°	3203.4	55.6
0°-60°	4937.2	85.7
0°-90°	5760.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5760.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2654	
5°	2648	252
15°	2551	720
25°	2331	1068
35°	1867	1164
45°	1306	1009
55°	804	725
65°	472	470
75°	253	269
85°	76	84
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2653.5
2.5°	2653.5
5°	2648.3
7.5°	2634.5
10°	2613.0
12.5°	2583.7
15°	2551.0
17.5°	2513.1
20°	2466.7
22.5°	2407.3
25°	2330.6
27.5°	2237.6
30°	2126.6
32.5°	2001.7
35°	1867.4
37.5°	1726.2
40°	1585.0
42.5°	1445.6
45°	1306.1
47.5°	1174.4
50°	1043.5
52.5°	923.0
55°	804.1
57.5°	696.5
60°	607.8
62.5°	535.5
65°	471.8
67.5°	411.5
70°	356.4
72.5°	303.1
75°	253.1
77.5°	205.8
80°	160.1
82.5°	117.1
85°	75.8
87.5°	37.0
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	17.69	19.19	18.05	19.50	19.82	17.69	19.19	18.05	19.50	19.82
	3H	19.20	20.54	19.58	20.87	21.24	19.20	20.54	19.58	20.87	21.24
	4H	19.80	21.06	20.20	21.41	21.79	19.80	21.06	20.20	21.41	21.79
	6H	20.28	21.44	20.69	21.81	22.20	20.28	21.44	20.69	21.81	22.20
	8H	20.45	21.56	20.87	21.95	22.35	20.45	21.56	20.87	21.95	22.35
	12H	20.57	21.63	21.00	22.01	22.44	20.57	21.63	21.00	22.01	22.44
4H	2H	18.19	19.45	18.59	19.80	20.18	18.19	19.45	18.59	19.80	20.18
	3H	19.94	20.99	20.35	21.39	21.79	19.94	20.99	20.35	21.39	21.79
	4H	20.68	21.62	21.11	22.04	22.48	20.68	21.62	21.11	22.04	22.48
	6H	21.29	22.12	21.75	22.56	23.02	21.29	22.12	21.75	22.56	23.02
	8H	21.52	22.28	21.98	22.73	23.20	21.52	22.28	21.98	22.73	23.20
	12H	21.69	22.38	22.17	22.86	23.33	21.69	22.38	22.17	22.86	23.33
8H	4H	20.95	21.72	21.42	22.17	22.63	20.95	21.72	21.42	22.17	22.63
	6H	21.70	22.34	22.20	22.83	23.31	21.70	22.34	22.20	22.83	23.31
	8H	22.01	22.58	22.52	23.09	23.58	22.01	22.58	22.52	23.09	23.58
	12H	22.27	22.78	22.78	23.27	23.83	22.27	22.78	22.78	23.27	23.83
12H	4H	20.98	21.67	21.46	22.15	22.62	20.98	21.67	21.46	22.15	22.62
	6H	21.76	22.33	22.27	22.84	23.33	21.76	22.33	22.27	22.84	23.33
	8H	22.13	22.63	22.63	23.12	23.69	22.13	22.63	22.63	23.12	23.69