

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: P867215

Luminaire Tested: PRLX-2004-L-927-48L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-927-48L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

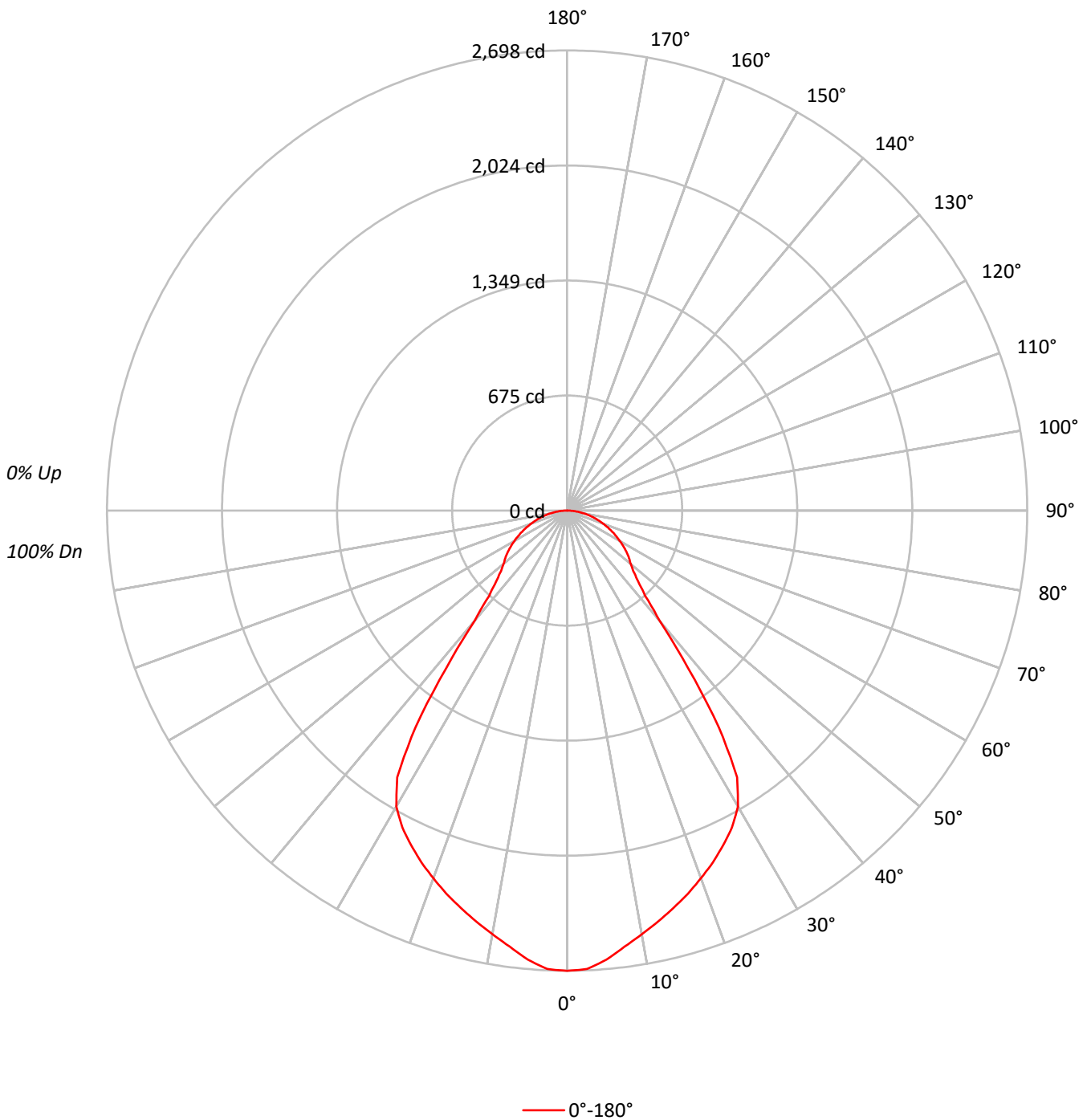
Lumens per Lamp: N/A
Luminaire Lumens: 4218.9 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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

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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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13314
5°	13089
10°	12635
15°	12319
20°	12045
25°	11785
30°	11413
35°	9345
40°	5426
45°	4103
50°	3729
55°	3666
60°	3535
65°	3394
70°	3259
75°	3117
80°	2986
85°	2864

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4103 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	5.9
10°-20°	680.0	16.1
20°-30°	995.9	23.6
30°-40°	926.0	21.9
40°-50°	471.7	11.2
50°-60°	379.5	9.0
60°-70°	288.2	6.8
70°-80°	173.6	4.1
80°-90°	55.8	1.3
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°	1924.1	45.6
0°-40°	2850.1	67.6
0°-60°	3701.4	87.7
0°-90°	4218.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4218.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2698	
5°	2643	248
15°	2412	680
25°	2165	996
35°	1552	926
45°	588	472
55°	426	380
65°	291	288
75°	164	174
85°	51	56
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2698.5
2.5°	2690.6
5°	2642.8
7.5°	2578.8
10°	2521.9
12.5°	2467.8
15°	2411.7
17.5°	2354.9
20°	2294.0
22.5°	2232.4
25°	2164.9
27.5°	2093.8
30°	2003.3
32.5°	1854.4
35°	1551.5
37.5°	1164.4
40°	842.5
42.5°	677.4
45°	588.1
47.5°	525.3
50°	485.8
52.5°	457.4
55°	426.2
57.5°	391.4
60°	358.2
62.5°	323.9
65°	290.7
67.5°	257.9
70°	225.9
72.5°	194.7
75°	163.5
77.5°	134.3
80°	105.1
82.5°	77.8
85°	50.6
87.5°	24.1
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	14.97	16.33	15.34	16.64	16.96	14.97	16.33	15.34	16.64	16.96
	3H	16.77	17.99	17.15	18.31	18.68	16.77	17.99	17.15	18.31	18.68
	4H	17.48	18.62	17.88	18.97	19.35	17.48	18.62	17.88	18.97	19.35
	6H	18.04	19.09	18.45	19.46	19.85	18.04	19.09	18.45	19.46	19.85
	8H	18.24	19.24	18.67	19.63	20.03	18.24	19.24	18.67	19.63	20.03
	12H	18.39	19.34	18.82	19.72	20.15	18.39	19.34	18.82	19.72	20.15
4H	2H	15.56	16.70	15.96	17.05	17.43	15.56	16.70	15.96	17.05	17.43
	3H	17.58	18.53	17.99	18.93	19.33	17.58	18.53	17.99	18.93	19.33
	4H	18.42	19.27	18.86	19.69	20.13	18.42	19.27	18.86	19.69	20.13
	6H	19.12	19.86	19.58	20.30	20.77	19.12	19.86	19.58	20.30	20.77
	8H	19.37	20.06	19.84	20.51	20.98	19.37	20.06	19.84	20.51	20.98
	12H	19.57	20.18	20.06	20.67	21.14	19.57	20.18	20.06	20.67	21.14
8H	4H	18.73	19.42	19.19	19.86	20.33	18.73	19.42	19.19	19.86	20.33
	6H	19.57	20.13	20.07	20.63	21.11	19.57	20.13	20.07	20.63	21.11
	8H	19.92	20.42	20.44	20.94	21.43	19.92	20.42	20.44	20.94	21.43
	12H	20.21	20.66	20.72	21.15	21.72	20.21	20.66	20.72	21.15	21.72
12H	4H	18.75	19.37	19.24	19.85	20.32	18.75	19.37	19.24	19.85	20.32
	6H	19.63	20.14	20.15	20.65	21.14	19.63	20.14	20.15	20.65	21.14
	8H	20.05	20.49	20.56	20.98	21.55	20.05	20.49	20.56	20.98	21.55