

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: P866711

Luminaire Tested: PRLX-2001-L-927-67L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-67L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

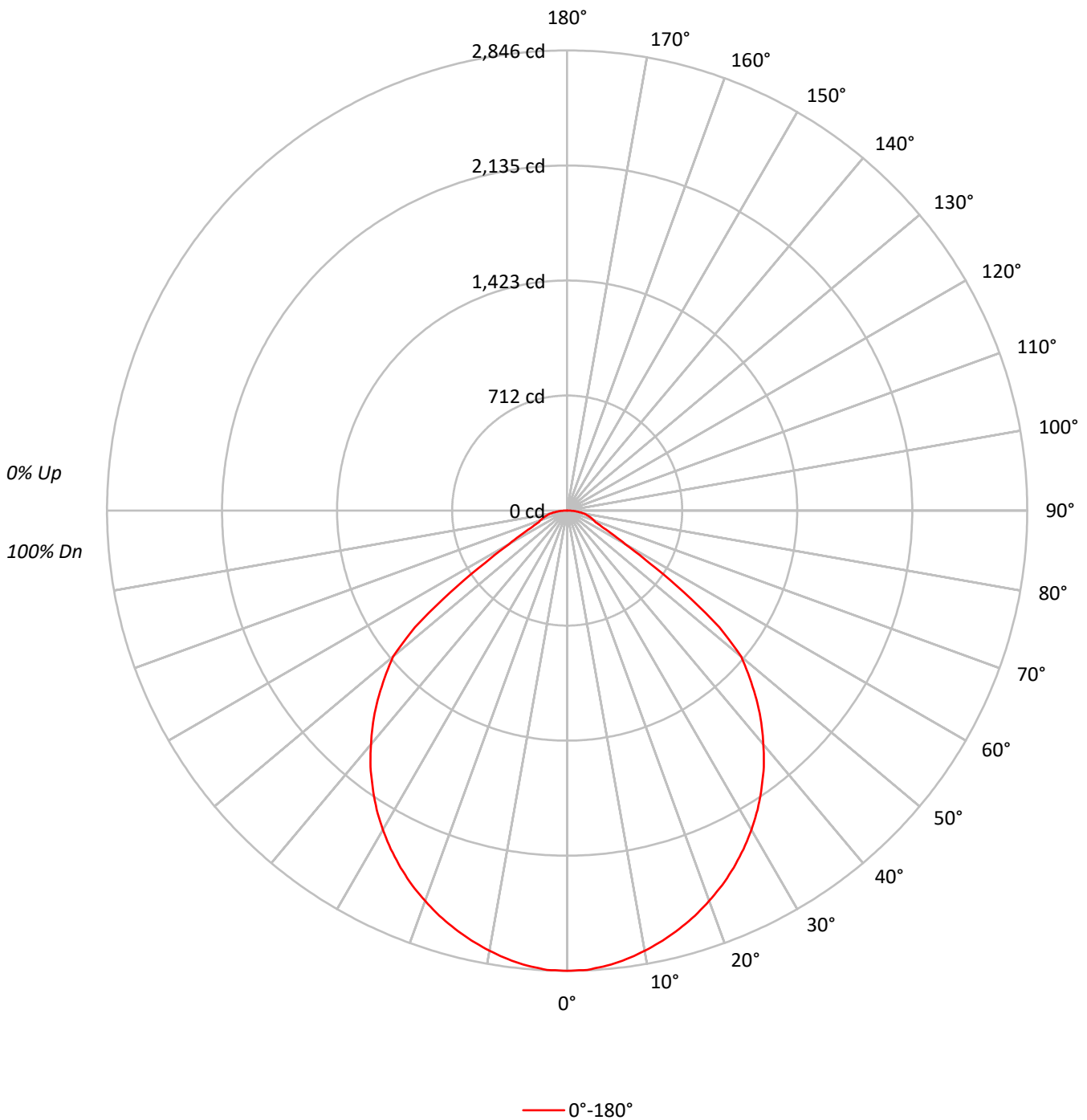
Lumens per Lamp: N/A
Luminaire Lumens: 5985.3 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866711

CATALOG NUMBER: PRLX-2001-L-927-67L-L-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P866711

CATALOG NUMBER: PRLX-2001-L-927-67L-L-X-X-WHHR-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	111	107	103	100	108	105	101	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15561
5°	15506
10°	15346
15°	15159
20°	14945
25°	14698
30°	14388
35°	13991
40°	13477
45°	12809
50°	11953
55°	8395
60°	4545
65°	3094
70°	2812
75°	2987
80°	3214
85°	3431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12809 cd/sqm

TEST NUMBER: P866711

CATALOG NUMBER: PRLX-2001-L-927-67L-L-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.8	4.5
10°-20°	755.3	12.6
20°-30°	1121.9	18.7
30°-40°	1309.9	21.9
40°-50°	1275.0	21.3
50°-60°	793.4	13.3
60°-70°	255.8	4.3
70°-80°	148.4	2.5
80°-90°	58.0	1.0
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°	2144.9	35.8
0°-40°	3454.8	57.7
0°-60°	5523.2	92.3
0°-90°	5985.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5985.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2846	
5°	2826	268
15°	2678	755
25°	2437	1122
35°	2096	1310
45°	1657	1275
55°	881	793
65°	239	256
75°	141	148
85°	55	58
90°	0	

TEST NUMBER: P866711

CATALOG NUMBER: PRLX-2001-L-927-67L-L-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	2846.4
2.5°	2843.2
5°	2825.6
7.5°	2799.1
10°	2764.5
12.5°	2725.2
15°	2678.4
17.5°	2627.4
20°	2568.9
22.5°	2507.3
25°	2436.6
27.5°	2361.1
30°	2279.2
32.5°	2192.6
35°	2096.4
37.5°	1998.0
40°	1888.5
42.5°	1777.5
45°	1656.8
47.5°	1530.8
50°	1405.4
52.5°	1186.4
55°	880.8
57.5°	600.1
60°	415.7
62.5°	310.4
65°	239.2
67.5°	191.4
70°	175.9
72.5°	158.9
75°	141.4
77.5°	122.8
80°	102.1
82.5°	79.7
85°	54.7
87.5°	27.6
90°	0.0



TEST NUMBER: P866711
 CATALOG NUMBER: PRLX-2001-L-927-67L-L-X-X-WHHR-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	16.84	18.29	17.21	18.61	18.92	16.84	18.29	17.21	18.61	18.92
	3H	17.32	18.61	17.70	18.94	19.30	17.32	18.61	17.70	18.94	19.30
	4H	17.64	18.84	18.04	19.19	19.57	17.64	18.84	18.04	19.19	19.57
	6H	17.99	19.10	18.40	19.47	19.86	17.99	19.10	18.40	19.47	19.86
	8H	18.15	19.20	18.57	19.59	19.99	18.15	19.20	18.57	19.59	19.99
	12H	18.27	19.28	18.70	19.66	20.09	18.27	19.28	18.70	19.66	20.09
4H	2H	16.92	18.12	17.32	18.47	18.85	16.92	18.12	17.32	18.47	18.85
	3H	17.62	18.60	18.03	19.00	19.40	17.62	18.60	18.03	19.00	19.40
	4H	18.09	18.97	18.52	19.38	19.82	18.09	18.97	18.52	19.38	19.82
	6H	18.61	19.38	19.07	19.82	20.28	18.61	19.38	19.07	19.82	20.28
	8H	18.84	19.56	19.31	20.00	20.47	18.84	19.56	19.31	20.00	20.47
	12H	19.04	19.68	19.53	20.16	20.63	19.04	19.68	19.53	20.16	20.63
8H	4H	18.25	18.96	18.72	19.41	19.88	18.25	18.96	18.72	19.41	19.88
	6H	18.92	19.51	19.42	20.01	20.49	18.92	19.51	19.42	20.01	20.49
	8H	19.25	19.78	19.76	20.29	20.78	19.25	19.78	19.76	20.29	20.78
	12H	19.55	20.03	20.06	20.52	21.09	19.55	20.03	20.06	20.52	21.09
12H	4H	18.27	18.90	18.75	19.39	19.86	18.27	18.90	18.75	19.39	19.86
	6H	18.97	19.51	19.49	20.02	20.51	18.97	19.51	19.49	20.02	20.51
	8H	19.36	19.84	19.87	20.33	20.90	19.36	19.84	19.87	20.33	20.90