

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: P867201

Luminaire Tested: PRLX-2004-L-927-15L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-927-15L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

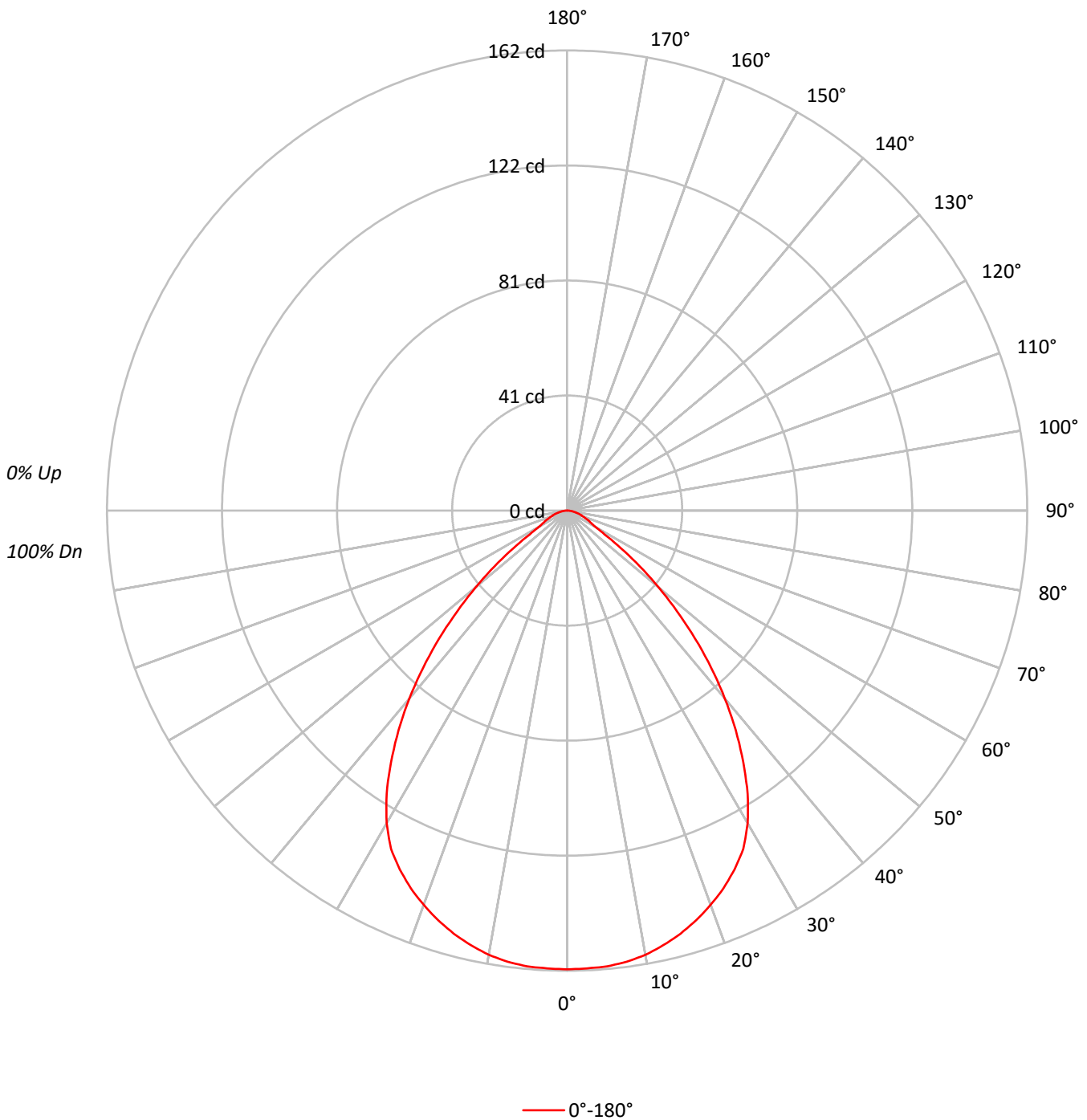
Lumens per Lamp: N/A
Luminaire Lumens: 274.2 lumens
Efficiency: N/A
Efficacy: 16.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.17
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867201

CATALOG NUMBER: PRLX-2004-L-927-15L-G-X-X-BRSS-X

Luminous Intensity Polar Plot



TEST NUMBER: P867201

CATALOG NUMBER: PRLX-2004-L-927-15L-G-X-X-BRSS-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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67	75	71	67	73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	797
5°	798
10°	796
15°	788
20°	775
25°	759
30°	724
35°	651
40°	556
45°	444
50°	322
55°	198
60°	112
65°	96
70°	84
75°	76
80°	68
85°	62

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 444 cd/sqm

TEST NUMBER: P867201

CATALOG NUMBER: PRLX-2004-L-927-15L-G-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.3	5.6
10°-20°	43.4	15.8
20°-30°	64.0	23.3
30°-40°	67.1	24.5
40°-50°	49.0	17.9
50°-60°	21.6	7.9
60°-70°	8.2	3.0
70°-80°	4.3	1.6
80°-90°	1.3	0.5
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°	122.7	44.8
0°-40°	189.8	69.2
0°-60°	260.4	95.0
0°-90°	274.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	274.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	162	
5°	161	15
15°	154	43
25°	139	64
35°	108	67
45°	64	49
55°	23	22
65°	8	8
75°	4	4
85°	1	1
90°	0	

TEST NUMBER: P867201

CATALOG NUMBER: PRLX-2004-L-927-15L-G-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	161.5
2.5°	161.3
5°	161.1
7.5°	160.2
10°	158.8
12.5°	156.7
15°	154.2
17.5°	151.2
20°	147.7
22.5°	143.9
25°	139.4
27.5°	134.3
30°	127.1
32.5°	118.3
35°	108.1
37.5°	97.5
40°	86.4
42.5°	75.1
45°	63.7
47.5°	52.5
50°	42.0
52.5°	32.2
55°	23.0
57.5°	15.6
60°	11.3
62.5°	9.6
65°	8.2
67.5°	6.9
70°	5.8
72.5°	4.9
75°	4.0
77.5°	3.2
80°	2.4
82.5°	1.8
85°	1.1
87.5°	0.5
90°	0.0



TEST NUMBER: P867201
 CATALOG NUMBER: PRLX-2004-L-927-15L-G-X-X-BRSS-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	2.04	3.34	2.41	3.66	3.97	2.04	3.34	2.41	3.66	3.97
	3H	2.91	4.06	3.29	4.39	4.76	2.91	4.06	3.29	4.39	4.76
	4H	3.26	4.33	3.67	4.68	5.07	3.26	4.33	3.67	4.68	5.07
	6H	3.53	4.51	3.94	4.88	5.28	3.53	4.51	3.94	4.88	5.28
	8H	3.62	4.55	4.05	4.94	5.34	3.62	4.55	4.05	4.94	5.34
	12H	3.68	4.56	4.11	4.95	5.38	3.68	4.56	4.11	4.95	5.38
4H	2H	2.27	3.34	2.67	3.69	4.08	2.27	3.34	2.67	3.69	4.08
	3H	3.36	4.23	3.77	4.63	5.04	3.36	4.23	3.77	4.63	5.04
	4H	3.83	4.60	4.26	5.02	5.47	3.83	4.60	4.26	5.02	5.47
	6H	4.21	4.88	4.68	5.33	5.80	4.21	4.88	4.68	5.33	5.80
	8H	4.34	4.97	4.81	5.42	5.89	4.34	4.97	4.81	5.42	5.89
	12H	4.44	4.99	4.93	5.48	5.95	4.44	4.99	4.93	5.48	5.95
8H	4H	3.96	4.59	4.43	5.04	5.51	3.96	4.59	4.43	5.04	5.51
	6H	4.45	4.96	4.95	5.46	5.94	4.45	4.96	4.95	5.46	5.94
	8H	4.65	5.11	5.17	5.62	6.12	4.65	5.11	5.17	5.62	6.12
	12H	4.81	5.22	5.33	5.72	6.29	4.81	5.22	5.33	5.72	6.29
12H	4H	3.96	4.51	4.44	4.99	5.47	3.96	4.51	4.44	4.99	5.47
	6H	4.46	4.92	4.98	5.44	5.93	4.46	4.92	4.98	5.44	5.93
	8H	4.71	5.12	5.23	5.62	6.19	4.71	5.12	5.23	5.62	6.19