

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: P866701

Luminaire Tested: PRLX-2001-L-927-48L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-48L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

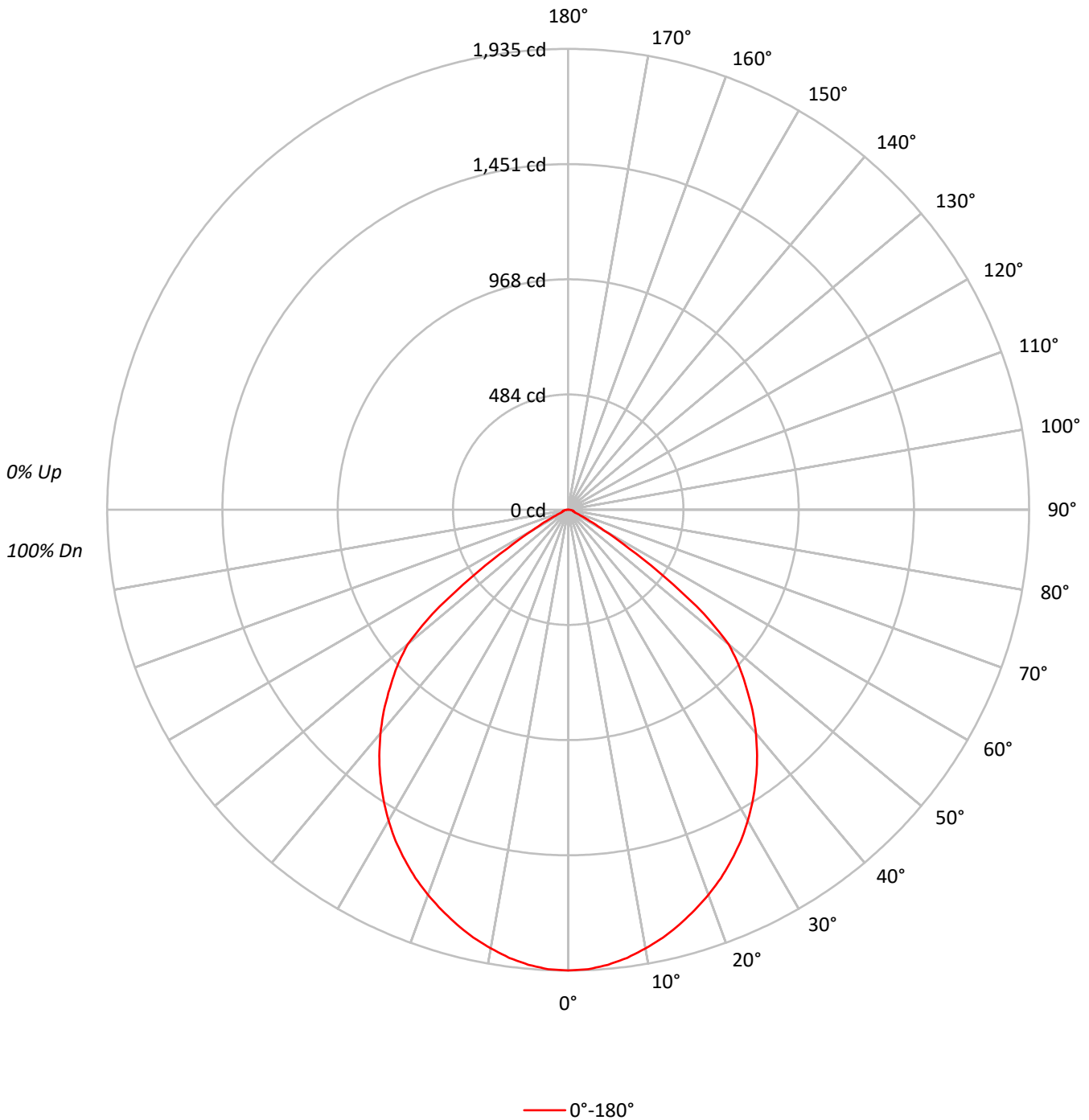
Lumens per Lamp: N/A
Luminaire Lumens: 3667.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866701

CATALOG NUMBER: PRLX-2001-L-927-48L-L-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866701

CATALOG NUMBER: PRLX-2001-L-927-48L-L-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	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10576
5°	10525
10°	10382
15°	10207
20°	10012
25°	9790
30°	9519
35°	9176
40°	8746
45°	8184
50°	7481
55°	4747
60°	1883
65°	721
70°	436
75°	475
80°	535
85°	596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8184 cd/sqm

TEST NUMBER: P866701

CATALOG NUMBER: PRLX-2001-L-927-48L-L-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	5.0
10°-20°	508.2	13.9
20°-30°	747.0	20.4
30°-40°	858.4	23.4
40°-50°	815.5	22.2
50°-60°	452.2	12.3
60°-70°	70.6	1.9
70°-80°	23.7	0.6
80°-90°	9.8	0.3
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°	1436.9	39.2
0°-40°	2295.2	62.6
0°-60°	3562.9	97.2
0°-90°	3667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3667.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1935	
5°	1918	182
15°	1804	508
25°	1623	747
35°	1375	858
45°	1058	816
55°	498	452
65°	56	71
75°	22	24
85°	10	10
90°	0	

TEST NUMBER: P866701

CATALOG NUMBER: PRLX-2001-L-927-48L-L-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	1934.6
2.5°	1931.4
5°	1918.0
7.5°	1897.9
10°	1870.2
12.5°	1839.8
15°	1803.5
17.5°	1763.6
20°	1720.9
22.5°	1674.7
25°	1623.0
27.5°	1568.5
30°	1508.0
32.5°	1443.2
35°	1374.9
37.5°	1302.6
40°	1225.6
42.5°	1145.4
45°	1058.5
47.5°	974.4
50°	879.6
52.5°	718.1
55°	498.1
57.5°	302.9
60°	172.2
62.5°	102.3
65°	55.7
67.5°	30.4
70°	27.3
72.5°	24.9
75°	22.5
77.5°	20.1
80°	17.0
82.5°	13.4
85°	9.5
87.5°	4.7
90°	0.0



TEST NUMBER: P866701
 CATALOG NUMBER: PRLX-2001-L-927-48L-L-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	13.82	15.20	14.19	15.51	15.82	13.82	15.20	14.19	15.51	15.82
	3H	13.76	14.97	14.14	15.30	15.66	13.76	14.97	14.14	15.30	15.66
	4H	13.74	14.86	14.14	15.21	15.59	13.74	14.86	14.14	15.21	15.59
	6H	13.72	14.75	14.14	15.12	15.51	13.72	14.75	14.14	15.12	15.51
	8H	13.71	14.69	14.14	15.08	15.48	13.71	14.69	14.14	15.08	15.48
	12H	13.70	14.63	14.13	15.01	15.44	13.70	14.63	14.13	15.01	15.44
4H	2H	13.69	14.81	14.09	15.16	15.55	13.69	14.81	14.09	15.16	15.55
	3H	13.66	14.56	14.07	14.97	15.37	13.66	14.56	14.07	14.97	15.37
	4H	13.65	14.46	14.09	14.87	15.32	13.65	14.46	14.09	14.87	15.32
	6H	13.68	14.37	14.14	14.82	15.28	13.68	14.37	14.14	14.82	15.28
	8H	13.67	14.32	14.14	14.77	15.24	13.67	14.32	14.14	14.77	15.24
	12H	13.68	14.26	14.17	14.74	15.21	13.68	14.26	14.17	14.74	15.21
8H	4H	13.56	14.21	14.03	14.66	15.13	13.56	14.21	14.03	14.66	15.13
	6H	13.60	14.14	14.10	14.63	15.11	13.60	14.14	14.10	14.63	15.11
	8H	13.62	14.11	14.14	14.62	15.11	13.62	14.11	14.14	14.62	15.11
	12H	13.66	14.09	14.17	14.59	15.16	13.66	14.09	14.17	14.59	15.16
12H	4H	13.52	14.10	14.01	14.58	15.05	13.52	14.10	14.01	14.58	15.05
	6H	13.56	14.04	14.08	14.56	15.05	13.56	14.04	14.08	14.56	15.05
	8H	13.61	14.04	14.12	14.54	15.11	13.61	14.04	14.12	14.54	15.11