

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: P867053

Luminaire Tested: PRLX-2002-L-935-117L-L-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-935-117L-L-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 7  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

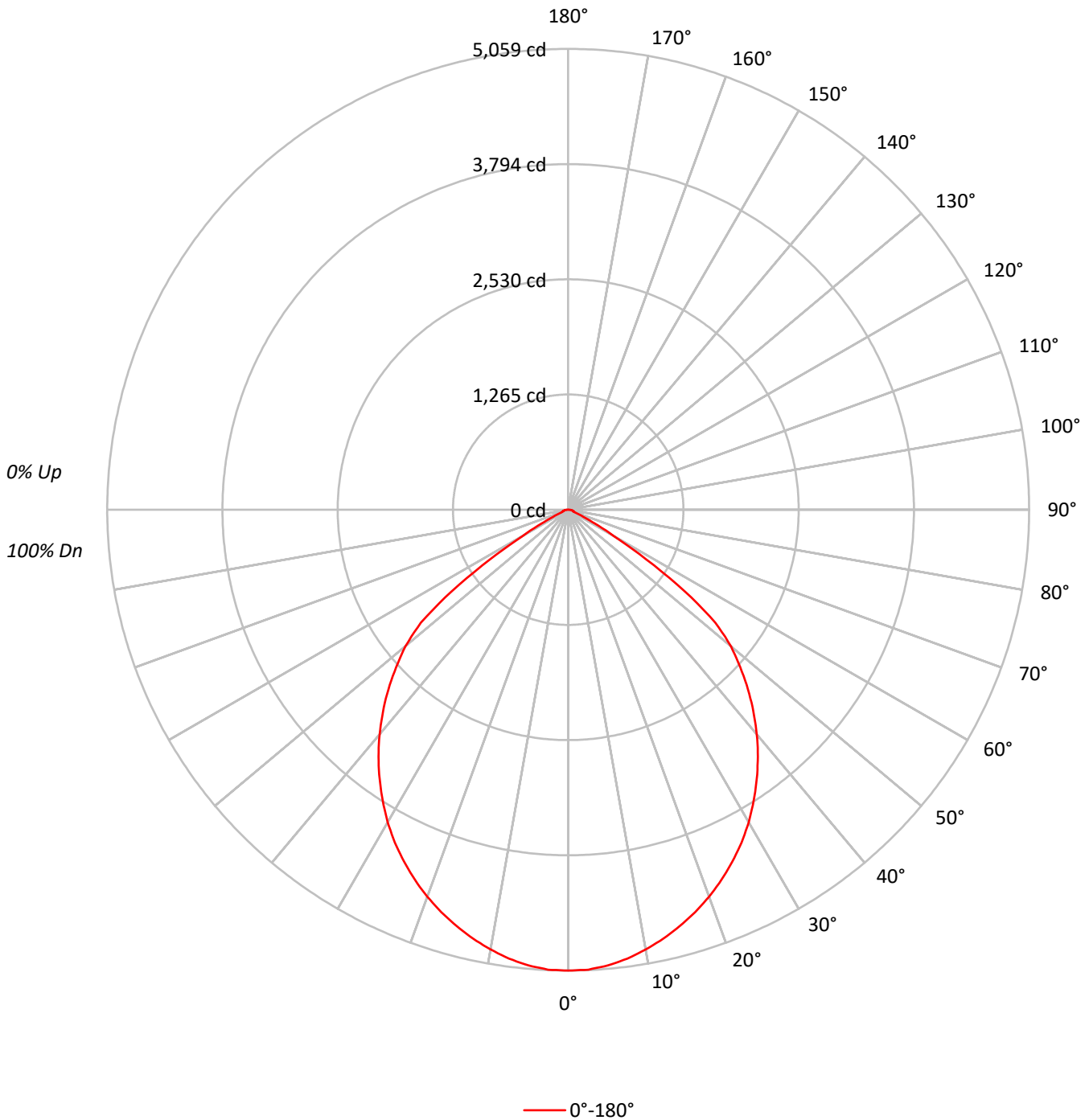
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9822.6 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 95.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P867053

CATALOG NUMBER: PRLX-2002-L-935-117L-L-X-X-BRSS-X

### Luminous Intensity Polar Plot





TEST NUMBER: P867053

CATALOG NUMBER: PRLX-2002-L-935-117L-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	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	77	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	24961
5°	24871
10°	24559
15°	24172
20°	23738
25°	23208
30°	22568
35°	21735
40°	20742
45°	19480
50°	17899
55°	13462
60°	5668
65°	2090
70°	961
75°	1050
80°	1213
85°	1415

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19480 cd/sqm

TEST NUMBER: P867053

CATALOG NUMBER: PRLX-2002-L-935-117L-L-X-X-BRSS-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.5	4.8
10°-20°	1333.9	13.6
20°-30°	1962.2	20.0
30°-40°	2253.6	22.9
40°-50°	2146.8	21.9
50°-60°	1344.5	13.7
60°-70°	222.5	2.3
70°-80°	58.1	0.6
80°-90°	25.4	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°	3771.7	38.4
0°-40°	6025.3	61.3
0°-60°	9516.6	96.9
0°-90°	9822.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9822.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5059	
5°	5022	476
15°	4732	1334
25°	4263	1962
35°	3609	2254
45°	2792	2147
55°	1565	1344
65°	179	223
75°	55	58
85°	25	25
90°	0	

TEST NUMBER: P867053

CATALOG NUMBER: PRLX-2002-L-935-117L-L-X-X-BRSS-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5059.2
2.5°	5054.0
5°	5021.7
7.5°	4970.7
10°	4902.0
12.5°	4824.0
15°	4732.4
17.5°	4632.5
20°	4521.2
22.5°	4397.4
25°	4263.1
27.5°	4120.6
30°	3961.4
32.5°	3788.6
35°	3608.6
37.5°	3419.3
40°	3220.5
42.5°	3009.3
45°	2791.8
47.5°	2559.8
50°	2331.9
52.5°	2036.4
55°	1565.0
57.5°	1011.4
60°	574.4
62.5°	325.7
65°	179.0
67.5°	84.3
70°	66.6
72.5°	61.4
75°	55.1
77.5°	48.9
80°	42.7
82.5°	34.3
85°	25.0
87.5°	12.5
90°	0.0



TEST NUMBER: P867053

CATALOG NUMBER: PRLX-2002-L-935-117L-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	18.40	19.79	18.76	20.10	20.42	18.40	19.79	18.76	20.10	20.42
	3H	18.31	19.54	18.69	19.87	20.23	18.31	19.54	18.69	19.87	20.23
	4H	18.27	19.41	18.67	19.76	20.14	18.27	19.41	18.67	19.76	20.14
	6H	18.23	19.27	18.64	19.64	20.04	18.23	19.27	18.64	19.64	20.04
	8H	18.21	19.20	18.64	19.59	19.99	18.21	19.20	18.64	19.59	19.99
	12H	18.19	19.13	18.62	19.51	19.94	18.19	19.13	18.62	19.51	19.94
4H	2H	18.27	19.40	18.67	19.75	20.14	18.27	19.40	18.67	19.75	20.14
	3H	18.20	19.12	18.61	19.52	19.92	18.20	19.12	18.61	19.52	19.92
	4H	18.16	18.97	18.59	19.39	19.83	18.16	18.97	18.59	19.39	19.83
	6H	18.14	18.84	18.60	19.29	19.75	18.14	18.84	18.60	19.29	19.75
	8H	18.12	18.77	18.58	19.22	19.69	18.12	18.77	18.58	19.22	19.69
	12H	18.10	18.69	18.59	19.17	19.64	18.10	18.69	18.59	19.17	19.64
8H	4H	18.05	18.71	18.52	19.15	19.62	18.05	18.71	18.52	19.15	19.62
	6H	18.03	18.57	18.53	19.07	19.55	18.03	18.57	18.53	19.07	19.55
	8H	18.01	18.51	18.53	19.02	19.51	18.01	18.51	18.53	19.02	19.51
	12H	18.02	18.46	18.54	18.96	19.53	18.02	18.46	18.54	18.96	19.53
12H	4H	18.01	18.59	18.49	19.07	19.55	18.01	18.59	18.49	19.07	19.55
	6H	17.98	18.47	18.50	18.98	19.47	17.98	18.47	18.50	18.98	19.47
	8H	17.99	18.43	18.50	18.92	19.49	17.99	18.43	18.50	18.92	19.49