

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: P867081

Luminaire Tested: PRLX-2002-L-935-32L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-935-32L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

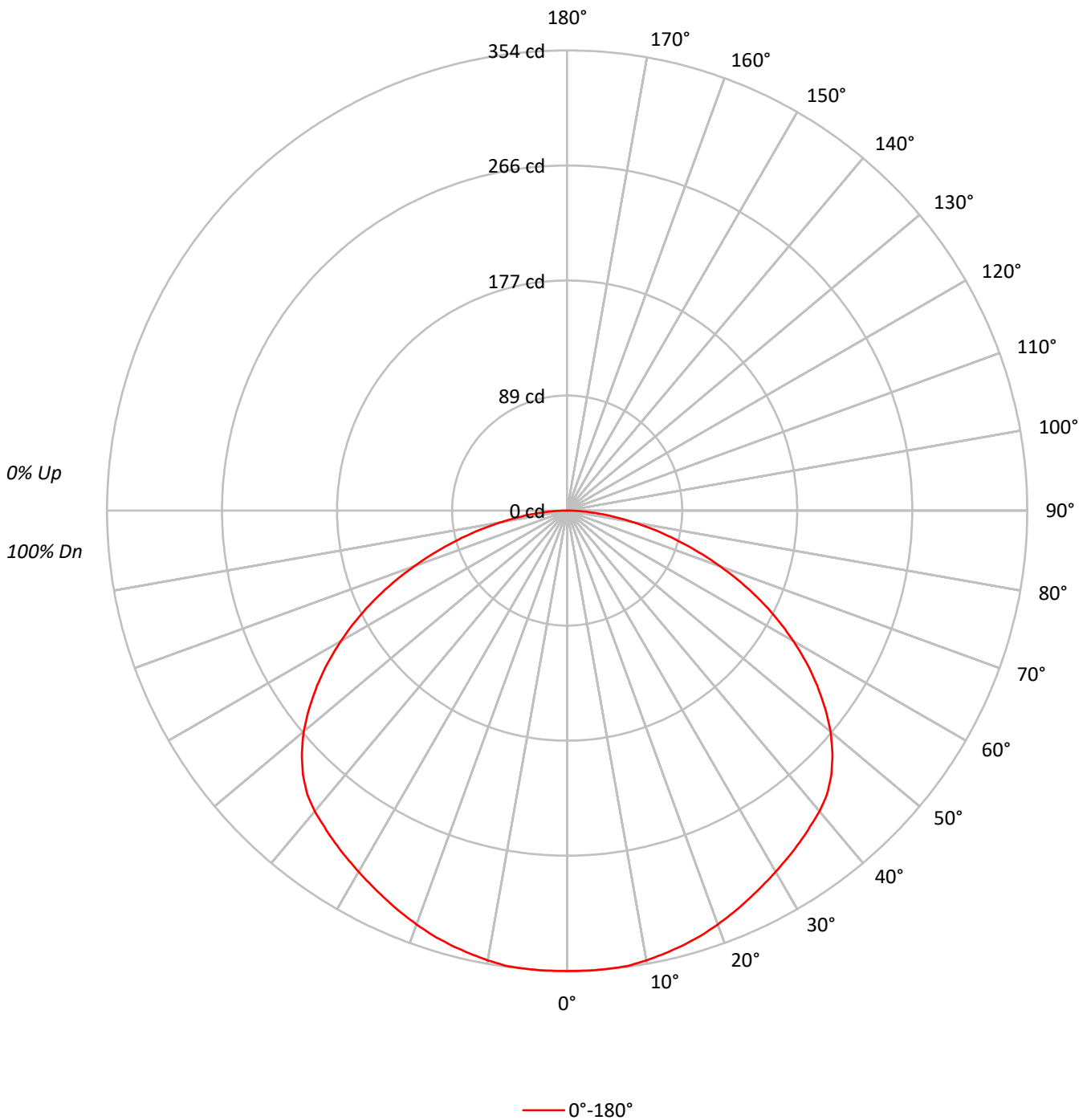
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1189.9 lumens  
Efficiency: N/A  
Efficacy: 45.6 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.1  
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: P867081

CATALOG NUMBER: PRLX-2002-L-935-32L-G-X-X-BRSS-X

### Luminous Intensity Polar Plot





TEST NUMBER: P867081

CATALOG NUMBER: PRLX-2002-L-935-32L-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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

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

	0°
0°	1748
5°	1753
10°	1760
15°	1767
20°	1779
25°	1796
30°	1828
35°	1877
40°	1945
45°	2005
50°	2031
55°	2020
60°	1984
65°	1922
70°	1805
75°	1657
80°	1477
85°	1211

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 2031 cd/sqm

TEST NUMBER: P867081

CATALOG NUMBER: PRLX-2002-L-935-32L-G-X-X-BRSS-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.7	2.8
10°-20°	97.8	8.2
20°-30°	152.5	12.8
30°-40°	195.5	16.4
40°-50°	221.0	18.6
50°-60°	209.5	17.6
60°-70°	162.3	13.6
70°-80°	92.3	7.8
80°-90°	25.3	2.1
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°	284.0	23.9
0°-40°	479.5	40.3
0°-60°	910.0	76.5
0°-90°	1189.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1189.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	354	
5°	354	34
15°	346	98
25°	330	152
35°	312	195
45°	287	221
55°	235	210
65°	165	162
75°	87	92
85°	21	25
90°	0	

TEST NUMBER: P867081

CATALOG NUMBER: PRLX-2002-L-935-32L-G-X-X-BRSS-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	354.3
2.5°	354.3
5°	354.0
7.5°	353.4
10°	351.4
12.5°	348.8
15°	346.0
17.5°	342.8
20°	338.8
22.5°	334.5
25°	330.0
27.5°	325.4
30°	320.8
32.5°	316.3
35°	311.7
37.5°	306.8
40°	302.0
42.5°	296.0
45°	287.4
47.5°	276.8
50°	264.6
52.5°	250.3
55°	234.8
57.5°	218.6
60°	201.1
62.5°	183.1
65°	164.6
67.5°	145.1
70°	125.1
72.5°	105.7
75°	86.9
77.5°	68.9
80°	52.0
82.5°	36.0
85°	21.4
87.5°	9.7
90°	0.0

TEST NUMBER: P867081  
 CATALOG NUMBER: PRLX-2002-L-935-32L-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	14.89	16.58	15.25	16.90	17.21	14.89	16.58	15.25	16.90	17.21
	3H	16.72	18.26	17.10	18.59	18.95	16.72	18.26	17.10	18.59	18.95
	4H	17.39	18.84	17.79	19.19	19.56	17.39	18.84	17.79	19.19	19.56
	6H	17.88	19.23	18.29	19.59	19.98	17.88	19.23	18.29	19.59	19.98
	8H	18.03	19.32	18.46	19.71	20.11	18.03	19.32	18.46	19.71	20.11
	12H	18.13	19.37	18.56	19.75	20.18	18.13	19.37	18.56	19.75	20.18
4H	2H	15.55	17.00	15.95	17.35	17.72	15.55	17.00	15.95	17.35	17.72
	3H	17.60	18.82	18.00	19.21	19.61	17.60	18.82	18.00	19.21	19.61
	4H	18.39	19.50	18.82	19.91	20.34	18.39	19.50	18.82	19.91	20.34
	6H	19.00	19.97	19.46	20.41	20.87	19.00	19.97	19.46	20.41	20.87
	8H	19.21	20.11	19.66	20.56	21.02	19.21	20.11	19.66	20.56	21.02
	12H	19.35	20.17	19.83	20.64	21.11	19.35	20.17	19.83	20.64	21.11
8H	4H	18.71	19.62	19.17	20.06	20.52	18.71	19.62	19.17	20.06	20.52
	6H	19.44	20.20	19.93	20.69	21.16	19.44	20.20	19.93	20.69	21.16
	8H	19.72	20.39	20.22	20.90	21.38	19.72	20.39	20.22	20.90	21.38
	12H	19.93	20.53	20.43	21.02	21.58	19.93	20.53	20.43	21.02	21.58
12H	4H	18.75	19.56	19.22	20.04	20.51	18.75	19.56	19.22	20.04	20.51
	6H	19.50	20.18	20.01	20.69	21.17	19.50	20.18	20.01	20.69	21.17
	8H	19.83	20.43	20.33	20.92	21.48	19.83	20.43	20.33	20.92	21.48