

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: P865682

Luminaire Tested: PRLX-2002-S-935-20L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-S-935-20L-L-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

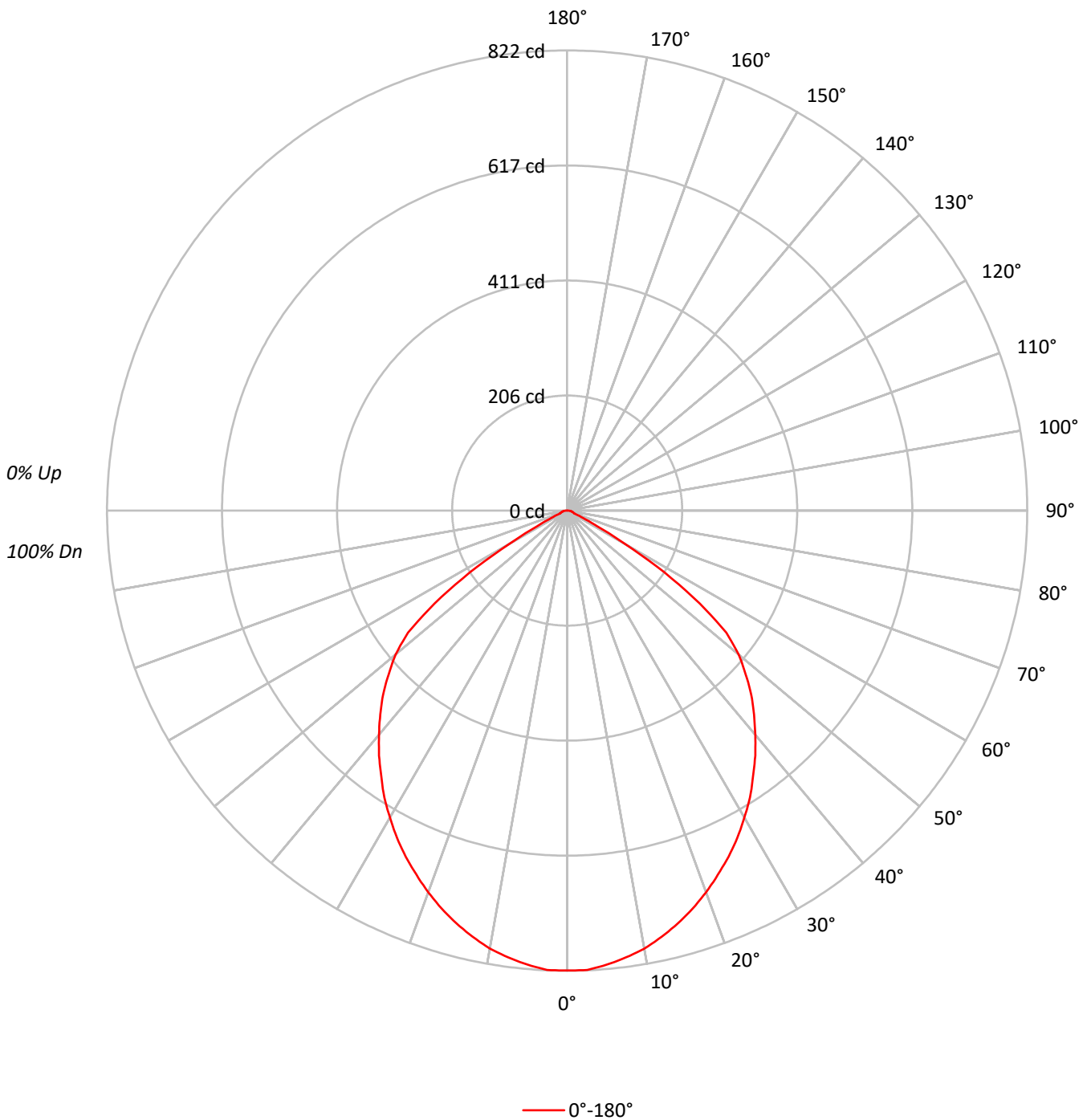
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1631.4 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
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: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P865682

CATALOG NUMBER: PRLX-2002-S-935-20L-L-U-S-X-X-GREY-X

### Luminous Intensity Polar Plot





TEST NUMBER: P865682

CATALOG NUMBER: PRLX-2002-S-935-20L-L-U-S-X-X-GREY-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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54
6	76	65	57	51	75	64	56	51	62	55	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

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

	0°
0°	15431
5°	15354
10°	15152
15°	14850
20°	14505
25°	14139
30°	13736
35°	13280
40°	12825
45°	12355
50°	11686
55°	9481
60°	4486
65°	1369
70°	698
75°	791
80°	779
85°	1164

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12355 cd/sqm

TEST NUMBER: P865682

CATALOG NUMBER: PRLX-2002-S-935-20L-L-U-S-X-X-GREY-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.1	4.7
10°-20°	215.1	13.2
20°-30°	314.0	19.2
30°-40°	362.5	22.2
40°-50°	357.5	21.9
50°-60°	247.3	15.2
60°-70°	42.2	2.6
70°-80°	10.8	0.7
80°-90°	4.9	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°	606.2	37.2
0°-40°	968.7	59.4
0°-60°	1573.5	96.5
0°-90°	1631.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1631.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	822	
5°	814	77
15°	764	215
25°	682	314
35°	579	363
45°	465	357
55°	290	247
65°	31	42
75°	11	11
85°	5	5
90°	0	

TEST NUMBER: P865682

CATALOG NUMBER: PRLX-2002-S-935-20L-L-U-S-X-X-GREY-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	821.5
2.5°	821.5
5°	814.3
7.5°	805.2
10°	794.4
12.5°	779.9
15°	763.6
17.5°	745.5
20°	725.6
22.5°	703.9
25°	682.2
27.5°	658.7
30°	633.3
32.5°	608.0
35°	579.1
37.5°	551.9
40°	523.0
42.5°	494.0
45°	465.1
47.5°	432.5
50°	399.9
52.5°	358.3
55°	289.5
57.5°	206.3
60°	119.4
62.5°	61.5
65°	30.8
67.5°	14.5
70°	12.7
72.5°	10.9
75°	10.9
77.5°	9.0
80°	7.2
82.5°	7.2
85°	5.4
87.5°	1.8
90°	0.0



TEST NUMBER: P865682  
 CATALOG NUMBER: PRLX-2002-S-935-20L-L-U-S-X-X-GREY-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	18.21	19.62	18.57	19.94	20.25	18.21	19.62	18.57	19.94	20.25
	3H	18.12	19.36	18.49	19.69	20.06	18.12	19.36	18.49	19.69	20.06
	4H	18.07	19.23	18.47	19.58	19.96	18.07	19.23	18.47	19.58	19.96
	6H	18.02	19.09	18.44	19.46	19.85	18.02	19.09	18.44	19.46	19.85
	8H	18.00	19.01	18.43	19.40	19.81	18.00	19.01	18.43	19.40	19.81
	12H	17.98	18.95	18.42	19.33	19.76	17.98	18.95	18.42	19.33	19.76
4H	2H	18.06	19.22	18.46	19.57	19.96	18.06	19.22	18.46	19.57	19.96
	3H	17.99	18.93	18.40	19.33	19.73	17.99	18.93	18.40	19.33	19.73
	4H	17.95	18.78	18.38	19.20	19.64	17.95	18.78	18.38	19.20	19.64
	6H	17.91	18.63	18.38	19.08	19.54	17.91	18.63	18.38	19.08	19.54
	8H	17.89	18.56	18.36	19.01	19.48	17.89	18.56	18.36	19.01	19.48
	12H	17.88	18.48	18.37	18.96	19.44	17.88	18.48	18.37	18.96	19.44
8H	4H	17.84	18.51	18.30	18.95	19.42	17.84	18.51	18.30	18.95	19.42
	6H	17.80	18.35	18.30	18.85	19.33	17.80	18.35	18.30	18.85	19.33
	8H	17.78	18.29	18.30	18.80	19.29	17.78	18.29	18.30	18.80	19.29
	12H	17.80	18.25	18.31	18.75	19.31	17.80	18.25	18.31	18.75	19.31
12H	4H	17.80	18.39	18.28	18.87	19.35	17.80	18.39	18.28	18.87	19.35
	6H	17.74	18.25	18.26	18.76	19.25	17.74	18.25	18.26	18.76	19.25
	8H	17.76	18.21	18.27	18.70	19.27	17.76	18.21	18.27	18.70	19.27