

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: P865663

Luminaire Tested: PRLX-2002-S-935-10L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865663  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-S-935-10L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

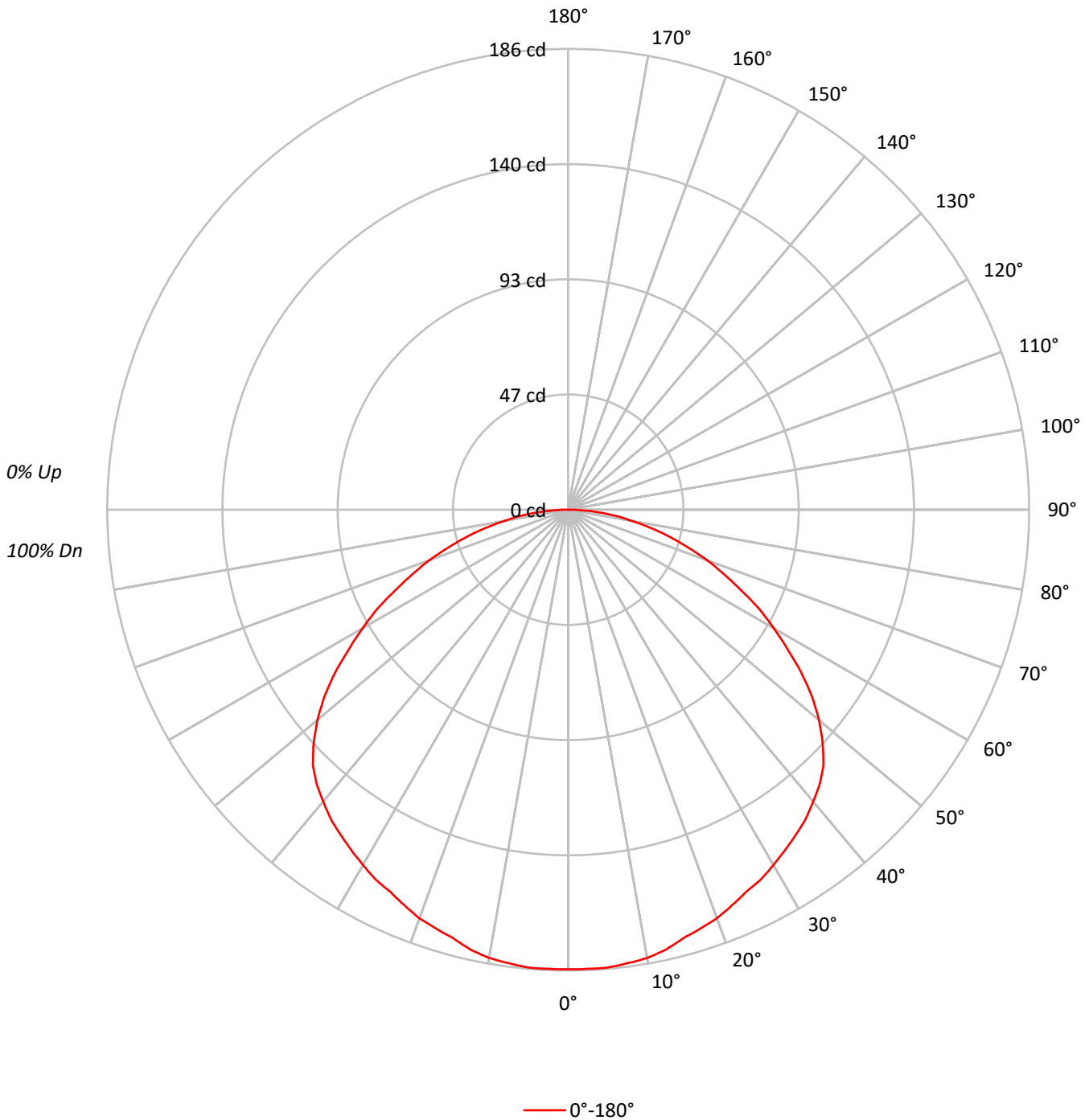
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 597.3 lumens  
Efficiency: N/A  
Efficacy: 56.9 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 10.5  
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: P865663

CATALOG NUMBER: PRLX-2002-S-935-10L-G-U-S-X-X-WHHR-X

### Luminous Intensity Polar Plot



TEST NUMBER: P865663

CATALOG NUMBER: PRLX-2002-S-935-10L-G-U-S-X-X-WHHR-X

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	93	90	93	90	87	89	87	85
2	98	90	82	76	95	88	81	76	84	78	74	81	76	72	78	74	70
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	41	34	30
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24

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

	0°
0°	3484
5°	3498
10°	3504
15°	3483
20°	3508
25°	3526
30°	3592
35°	3671
40°	3771
45°	3871
50°	3860
55°	3763
60°	3603
65°	3418
70°	3279
75°	3085
80°	2834
85°	2737

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 3873 cd/sqm

TEST NUMBER: P865663

CATALOG NUMBER: PRLX-2002-S-935-10L-G-U-S-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.6	3.0
10°-20°	50.8	8.5
20°-30°	78.8	13.2
30°-40°	100.4	16.8
40°-50°	111.7	18.7
50°-60°	102.4	17.1
60°-70°	76.6	12.8
70°-80°	45.0	7.5
80°-90°	14.1	2.4
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°	147.1	24.6
0°-40°	247.5	41.4
0°-60°	461.6	77.3
0°-90°	597.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	597.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	186	
5°	186	18
15°	179	51
25°	170	79
35°	160	100
45°	146	112
55°	115	102
65°	77	77
75°	42	45
85°	13	14
90°	0	

TEST NUMBER: P865663

CATALOG NUMBER: PRLX-2002-S-935-10L-G-U-S-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	185.5
2.5°	185.5
5°	185.5
7.5°	184.6
10°	183.7
12.5°	181.9
15°	179.1
17.5°	177.3
20°	175.5
22.5°	172.8
25°	170.1
27.5°	168.3
30°	165.6
32.5°	162.9
35°	160.1
37.5°	157.4
40°	153.8
42.5°	150.2
45°	145.7
47.5°	139.3
50°	132.1
52.5°	124.0
55°	114.9
57.5°	105.0
60°	95.9
62.5°	86.9
65°	76.9
67.5°	67.9
70°	59.7
72.5°	50.7
75°	42.5
77.5°	34.4
80°	26.2
82.5°	19.9
85°	12.7
87.5°	6.3
90°	0.0



TEST NUMBER: P865663  
 CATALOG NUMBER: PRLX-2002-S-935-10L-G-U-S-X-X-WHHR-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	16.84	18.53	17.21	18.84	19.16	16.84	18.53	17.21	18.84	19.16
	3H	18.63	20.15	19.01	20.48	20.84	18.63	20.15	19.01	20.48	20.84
	4H	19.32	20.76	19.72	21.11	21.48	19.32	20.76	19.72	21.11	21.48
	6H	19.86	21.19	20.27	21.56	21.95	19.86	21.19	20.27	21.56	21.95
	8H	20.05	21.33	20.48	21.72	22.12	20.05	21.33	20.48	21.72	22.12
	12H	20.20	21.43	20.63	21.81	22.23	20.20	21.43	20.63	21.81	22.23
4H	2H	17.47	18.91	17.87	19.25	19.63	17.47	18.91	17.87	19.25	19.63
	3H	19.49	20.70	19.90	21.09	21.49	19.49	20.70	19.90	21.09	21.49
	4H	20.32	21.41	20.75	21.83	22.26	20.32	21.41	20.75	21.83	22.26
	6H	20.99	21.95	21.44	22.39	22.84	20.99	21.95	21.44	22.39	22.84
	8H	21.24	22.14	21.70	22.58	23.05	21.24	22.14	21.70	22.58	23.05
	12H	21.45	22.26	21.93	22.73	23.20	21.45	22.26	21.93	22.73	23.20
8H	4H	20.65	21.55	21.11	21.99	22.46	20.65	21.55	21.11	21.99	22.46
	6H	21.45	22.21	21.95	22.69	23.17	21.45	22.21	21.95	22.69	23.17
	8H	21.80	22.47	22.30	22.98	23.46	21.80	22.47	22.30	22.98	23.46
	12H	22.09	22.69	22.60	23.18	23.74	22.09	22.69	22.60	23.18	23.74
12H	4H	20.69	21.51	21.17	21.98	22.45	20.69	21.51	21.17	21.98	22.45
	6H	21.53	22.20	22.03	22.71	23.19	21.53	22.20	22.03	22.71	23.19
	8H	21.94	22.54	22.44	23.02	23.58	21.94	22.54	22.44	23.02	23.58