

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: P865509

Luminaire Tested: PRLX-2001-S-935-15L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-935-15L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

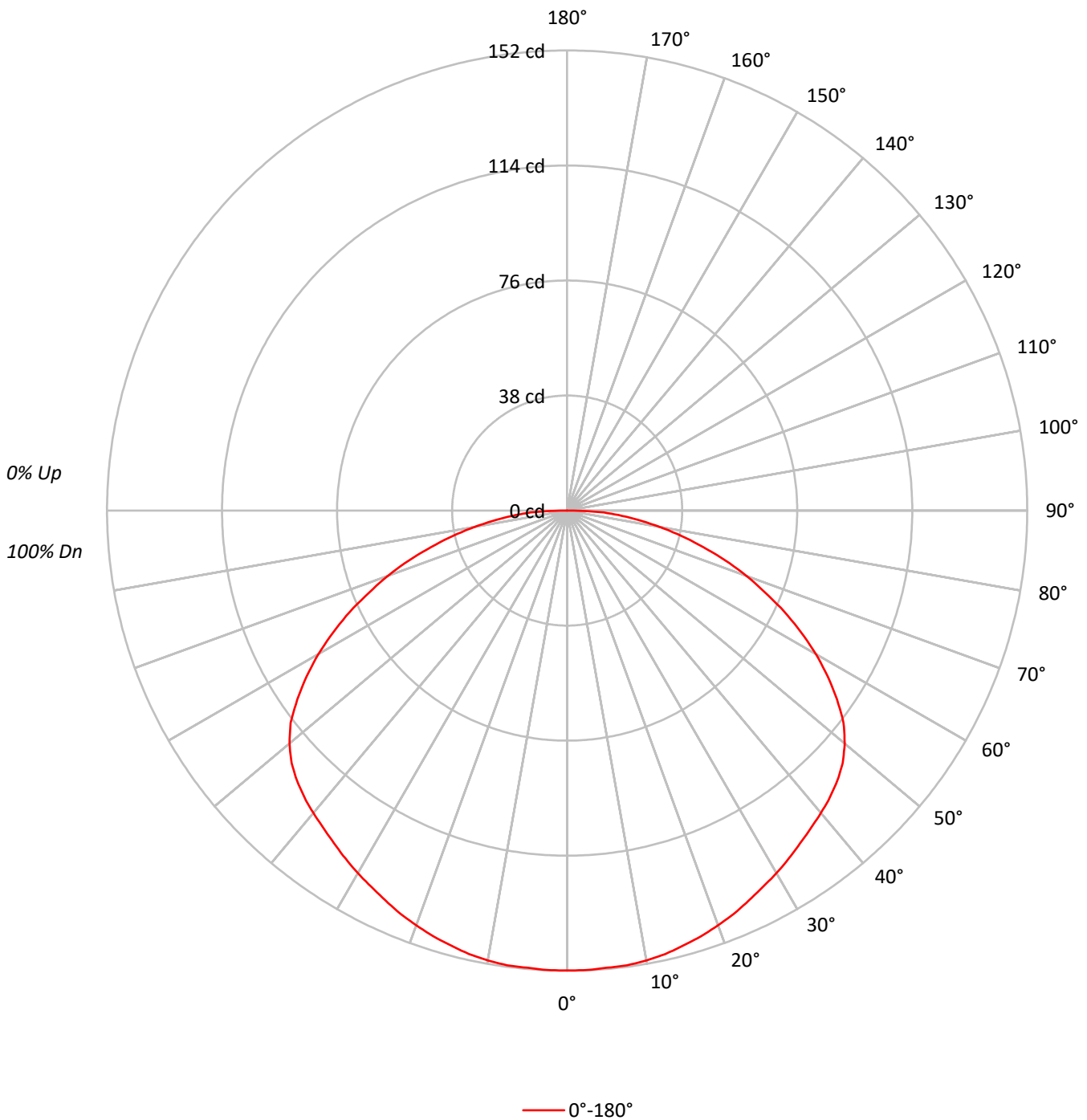
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 546.5 lumens  
Efficiency: N/A  
Efficacy: 35.0 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.55  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.6  
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: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P865509

CATALOG NUMBER: PRLX-2001-S-935-15L-G-U-S-X-X-BRSS-X

### Luminous Intensity Polar Plot





TEST NUMBER: P865509

CATALOG NUMBER: PRLX-2001-S-935-15L-G-U-S-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	107	102	97	93	105	100	95	91	95	92	89	91	89	86	88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	66
3	88	76	67	60	85	75	66	60	72	64	59	69	63	58	66	61	57	54
4	80	67	57	50	77	66	57	50	63	55	49	61	54	48	58	53	48	45
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	47	41	36	33
7	62	48	39	32	60	47	38	32	45	38	32	44	37	31	43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	22	21

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

	0°
0°	2478
5°	2482
10°	2499
15°	2511
20°	2531
25°	2557
30°	2605
35°	2672
40°	2776
45°	2911
50°	3037
55°	3094
60°	3096
65°	3060
70°	3004
75°	2930
80°	2902
85°	3181

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 4076 cd/sqm

TEST NUMBER: P865509

CATALOG NUMBER: PRLX-2001-S-935-15L-G-U-S-X-X-BRSS-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.5	2.6
10°-20°	42.1	7.7
20°-30°	65.7	12.0
30°-40°	84.2	15.4
40°-50°	97.3	17.8
50°-60°	97.0	17.7
60°-70°	78.3	14.3
70°-80°	49.3	9.0
80°-90°	18.2	3.3
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°	122.2	22.4
0°-40°	206.4	37.8
0°-60°	400.7	73.3
0°-90°	546.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	546.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	152	
5°	152	14
15°	149	42
25°	142	66
35°	134	84
45°	126	97
55°	109	97
65°	79	78
75°	46	49
85°	17	18
90°	0	

TEST NUMBER: P865509

CATALOG NUMBER: PRLX-2001-S-935-15L-G-U-S-X-X-BRSS-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	151.9
2.5°	151.9
5°	151.6
7.5°	151.5
10°	150.9
12.5°	150.0
15°	148.7
17.5°	147.4
20°	145.8
22.5°	144.1
25°	142.1
27.5°	140.1
30°	138.3
32.5°	136.3
35°	134.2
37.5°	132.2
40°	130.4
42.5°	128.5
45°	126.2
47.5°	123.5
50°	119.7
52.5°	115.1
55°	108.8
57.5°	102.1
60°	94.9
62.5°	87.1
65°	79.3
67.5°	70.8
70°	63.0
72.5°	54.8
75°	46.5
77.5°	38.7
80°	30.9
82.5°	23.6
85°	17.0
87.5°	10.9
90°	0.0



TEST NUMBER: P865509  
 CATALOG NUMBER: PRLX-2001-S-935-15L-G-U-S-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	16.41	18.14	16.77	18.46	18.77	16.41	18.14	16.77	18.46	18.77
	3H	18.42	20.00	18.79	20.32	20.68	18.42	20.00	18.79	20.32	20.68
	4H	19.23	20.72	19.62	21.07	21.44	19.23	20.72	19.62	21.07	21.44
	6H	19.90	21.29	20.31	21.65	22.04	19.90	21.29	20.31	21.65	22.04
	8H	20.16	21.49	20.58	21.88	22.27	20.16	21.49	20.58	21.88	22.27
	12H	20.39	21.66	20.81	22.04	22.47	20.39	21.66	20.81	22.04	22.47
4H	2H	17.11	18.61	17.51	18.95	19.33	17.11	18.61	17.51	18.95	19.33
	3H	19.35	20.62	19.76	21.01	21.41	19.35	20.62	19.76	21.01	21.41
	4H	20.31	21.46	20.74	21.87	22.30	20.31	21.46	20.74	21.87	22.30
	6H	21.13	22.14	21.58	22.58	23.03	21.13	22.14	21.58	22.58	23.03
	8H	21.45	22.41	21.91	22.85	23.31	21.45	22.41	21.91	22.85	23.31
	12H	21.75	22.61	22.23	23.08	23.55	21.75	22.61	22.23	23.08	23.55
8H	4H	20.70	21.65	21.16	22.09	22.55	20.70	21.65	21.16	22.09	22.55
	6H	21.68	22.48	22.17	22.96	23.43	21.68	22.48	22.17	22.96	23.43
	8H	22.11	22.83	22.61	23.33	23.81	22.11	22.83	22.61	23.33	23.81
	12H	22.52	23.16	23.03	23.65	24.21	22.52	23.16	23.03	23.65	24.21
12H	4H	20.76	21.62	21.24	22.10	22.56	20.76	21.62	21.24	22.10	22.56
	6H	21.78	22.50	22.28	23.00	23.48	21.78	22.50	22.28	23.00	23.48
	8H	22.29	22.92	22.79	23.41	23.97	22.29	22.92	22.79	23.41	23.97