

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: P865481

Luminaire Tested: PRLX-2001-S-930-20L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865481  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-930-20L-L-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

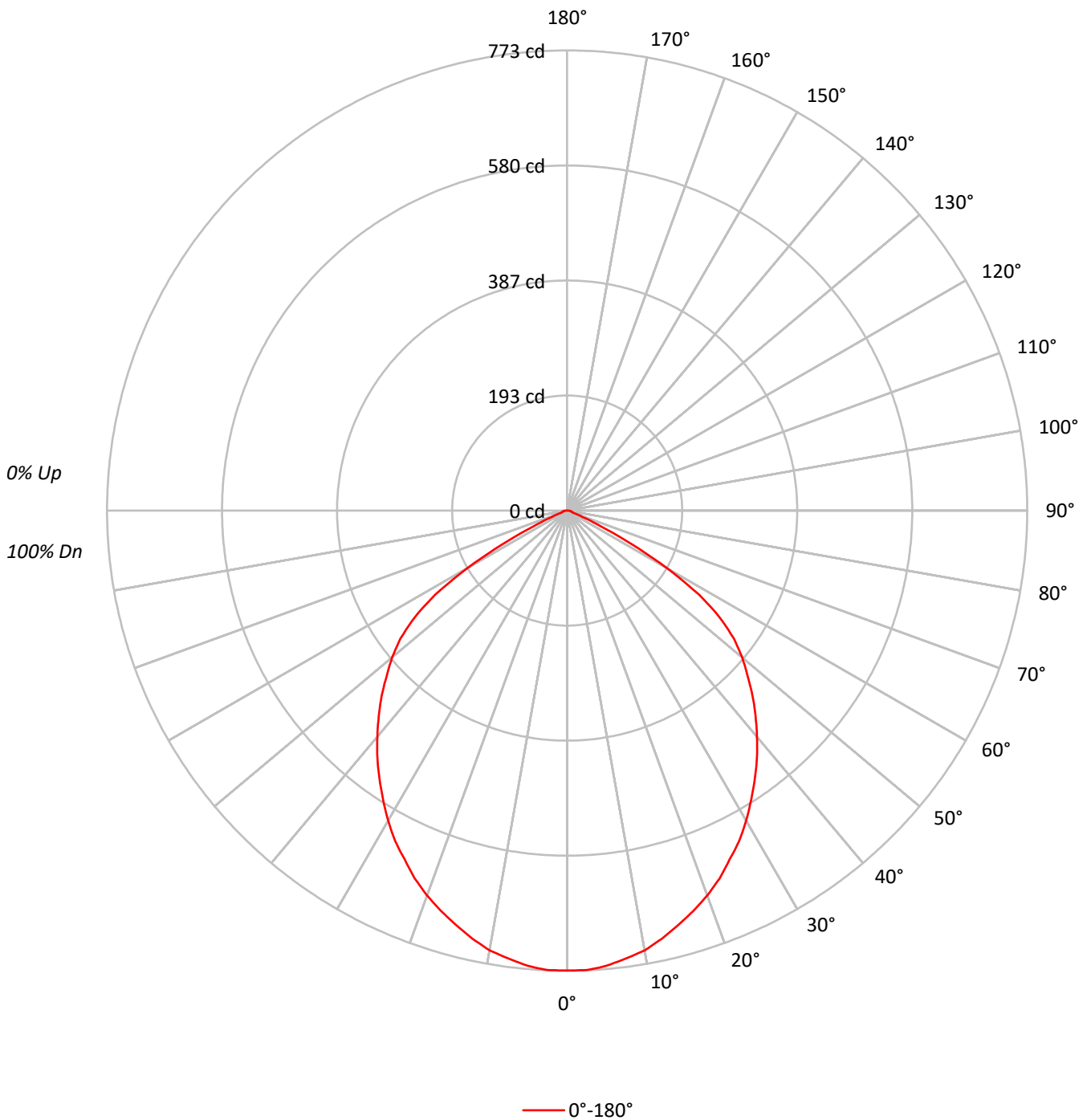
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1618.5 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
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: P865481

CATALOG NUMBER: PRLX-2001-S-930-20L-L-U-S-X-X-BRSS-X

### Luminous Intensity Polar Plot





TEST NUMBER: P865481

CATALOG NUMBER: PRLX-2001-S-930-20L-L-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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

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

	0°
0°	12601
5°	12564
10°	12423
15°	12169
20°	11940
25°	11633
30°	11328
35°	10943
40°	10561
45°	10165
50°	9736
55°	8895
60°	6315
65°	2400
70°	577
75°	542
80°	648
85°	973

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10165 cd/sqm

TEST NUMBER: P865481

CATALOG NUMBER: PRLX-2001-S-930-20L-L-U-S-X-X-BRSS-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.7	4.5
10°-20°	203.3	12.6
20°-30°	298.0	18.4
30°-40°	343.8	21.2
40°-50°	339.6	21.0
50°-60°	271.3	16.8
60°-70°	76.7	4.7
70°-80°	8.9	0.5
80°-90°	4.2	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°	574.0	35.5
0°-40°	917.8	56.7
0°-60°	1528.7	94.5
0°-90°	1618.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1618.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	773	
5°	767	73
15°	721	203
25°	646	298
35°	550	344
45°	441	340
55°	313	271
65°	62	77
75°	9	9
85°	5	4
90°	0	

TEST NUMBER: P865481

CATALOG NUMBER: PRLX-2001-S-930-20L-L-U-S-X-X-BRSS-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	772.6
2.5°	772.6
5°	767.4
7.5°	758.7
10°	750.1
12.5°	736.3
15°	720.7
17.5°	705.2
20°	687.9
22.5°	668.9
25°	646.4
27.5°	625.7
30°	601.5
32.5°	575.5
35°	549.6
37.5°	523.7
40°	496.0
42.5°	468.4
45°	440.7
47.5°	411.3
50°	383.7
52.5°	352.6
55°	312.8
57.5°	262.7
60°	193.6
62.5°	121.0
65°	62.2
67.5°	27.7
70°	12.1
72.5°	8.6
75°	8.6
77.5°	6.9
80°	6.9
82.5°	5.2
85°	5.2
87.5°	1.7
90°	0.0



TEST NUMBER: P865481  
 CATALOG NUMBER: PRLX-2001-S-930-20L-L-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	19.46	20.92	19.82	21.23	21.54	19.46	20.92	19.82	21.23	21.54
	3H	19.38	20.67	19.76	21.00	21.36	19.38	20.67	19.76	21.00	21.36
	4H	19.33	20.52	19.73	20.87	21.25	19.33	20.52	19.73	20.87	21.25
	6H	19.27	20.37	19.68	20.74	21.13	19.27	20.37	19.68	20.74	21.13
	8H	19.24	20.28	19.66	20.67	21.07	19.24	20.28	19.66	20.67	21.07
	12H	19.21	20.21	19.64	20.59	21.02	19.21	20.21	19.64	20.59	21.02
4H	2H	19.39	20.58	19.79	20.93	21.31	19.39	20.58	19.79	20.93	21.31
	3H	19.32	20.29	19.73	20.69	21.09	19.32	20.29	19.73	20.69	21.09
	4H	19.26	20.12	19.69	20.54	20.98	19.26	20.12	19.69	20.54	20.98
	6H	19.21	19.95	19.67	20.39	20.86	19.21	19.95	19.67	20.39	20.86
	8H	19.17	19.86	19.63	20.31	20.78	19.17	19.86	19.63	20.31	20.78
	12H	19.14	19.76	19.63	20.24	20.71	19.14	19.76	19.63	20.24	20.71
8H	4H	19.14	19.84	19.61	20.28	20.75	19.14	19.84	19.61	20.28	20.75
	6H	19.07	19.65	19.57	20.14	20.62	19.07	19.65	19.57	20.14	20.62
	8H	19.03	19.55	19.55	20.06	20.55	19.03	19.55	19.55	20.06	20.55
	12H	19.02	19.48	19.53	19.97	20.54	19.02	19.48	19.53	19.97	20.54
12H	4H	19.10	19.72	19.59	20.20	20.67	19.10	19.72	19.59	20.20	20.67
	6H	19.02	19.54	19.54	20.05	20.54	19.02	19.54	19.54	20.05	20.54
	8H	19.00	19.46	19.51	19.95	20.52	19.00	19.46	19.51	19.95	20.52