

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: P865521

Luminaire Tested: PRLX-2001-S-935-20L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865521  
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-935-20L-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

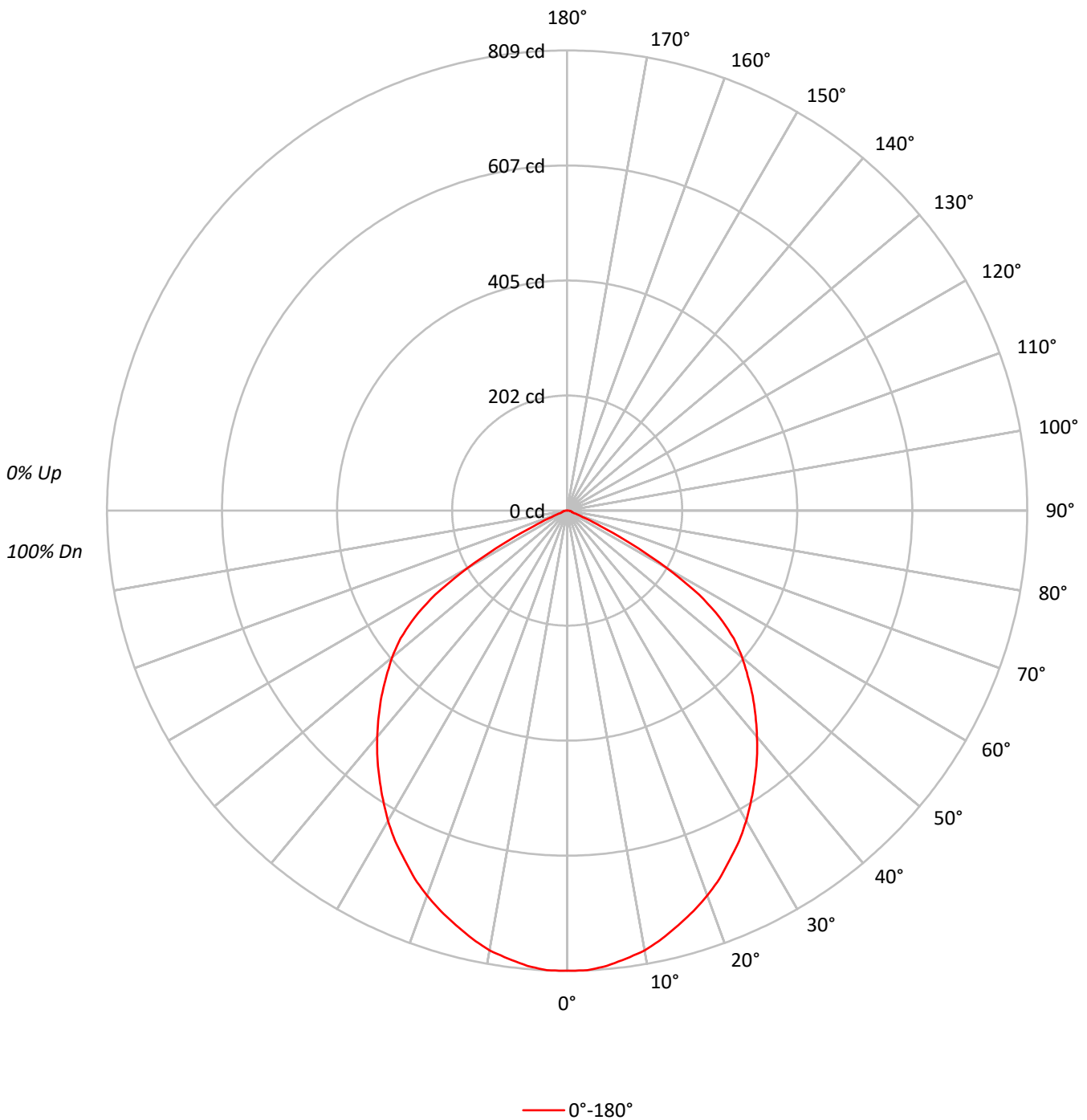
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1694.5 lumens  
Efficiency: N/A  
Efficacy: 77.7 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 (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

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### Luminous Intensity Polar Plot





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**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°	13193
5°	13154
10°	13006
15°	12742
20°	12500
25°	12180
30°	11859
35°	11457
40°	11057
45°	10643
50°	10193
55°	9313
60°	6612
65°	2512
70°	606
75°	567
80°	676
85°	1011

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10643 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	4.5
10°-20°	212.8	12.6
20°-30°	312.0	18.4
30°-40°	360.0	21.2
40°-50°	355.6	21.0
50°-60°	284.0	16.8
60°-70°	80.3	4.7
70°-80°	9.3	0.5
80°-90°	4.4	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°	600.9	35.5
0°-40°	960.9	56.7
0°-60°	1600.5	94.5
0°-90°	1694.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1694.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	809	
5°	803	76
15°	755	213
25°	677	312
35°	575	360
45°	461	356
55°	328	284
65°	65	80
75°	9	9
85°	5	4
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	808.9
2.5°	808.9
5°	803.4
7.5°	794.4
10°	785.3
12.5°	770.9
15°	754.6
17.5°	738.3
20°	720.2
22.5°	700.3
25°	676.8
27.5°	655.0
30°	629.7
32.5°	602.6
35°	575.4
37.5°	548.3
40°	519.3
42.5°	490.4
45°	461.4
47.5°	430.7
50°	401.7
52.5°	369.1
55°	327.5
57.5°	275.0
60°	202.7
62.5°	126.7
65°	65.1
67.5°	29.0
70°	12.7
72.5°	9.0
75°	9.0
77.5°	7.2
80°	7.2
82.5°	5.4
85°	5.4
87.5°	1.8
90°	0.0



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**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	19.62	21.07	19.98	21.39	21.70	19.62	21.07	19.98	21.39	21.70
	3H	19.54	20.83	19.92	21.16	21.52	19.54	20.83	19.92	21.16	21.52
	4H	19.48	20.68	19.89	21.03	21.41	19.48	20.68	19.89	21.03	21.41
	6H	19.43	20.53	19.84	20.89	21.29	19.43	20.53	19.84	20.89	21.29
	8H	19.39	20.44	19.82	20.83	21.23	19.39	20.44	19.82	20.83	21.23
	12H	19.37	20.36	19.80	20.75	21.18	19.37	20.36	19.80	20.75	21.18
4H	2H	19.54	20.74	19.94	21.09	21.47	19.54	20.74	19.94	21.09	21.47
	3H	19.48	20.45	19.89	20.85	21.25	19.48	20.45	19.89	20.85	21.25
	4H	19.41	20.28	19.85	20.70	21.14	19.41	20.28	19.85	20.70	21.14
	6H	19.36	20.11	19.82	20.55	21.02	19.36	20.11	19.82	20.55	21.02
	8H	19.32	20.02	19.79	20.46	20.93	19.32	20.02	19.79	20.46	20.93
	12H	19.30	19.92	19.78	20.40	20.87	19.30	19.92	19.78	20.40	20.87
8H	4H	19.30	20.00	19.77	20.44	20.91	19.30	20.00	19.77	20.44	20.91
	6H	19.23	19.81	19.73	20.30	20.78	19.23	19.81	19.73	20.30	20.78
	8H	19.19	19.71	19.71	20.22	20.71	19.19	19.71	19.71	20.22	20.71
	12H	19.17	19.64	19.69	20.13	20.70	19.17	19.64	19.69	20.13	20.70
12H	4H	19.26	19.88	19.75	20.36	20.83	19.26	19.88	19.75	20.36	20.83
	6H	19.18	19.69	19.69	20.21	20.70	19.18	19.69	19.69	20.21	20.70
	8H	19.15	19.62	19.67	20.11	20.68	19.15	19.62	19.67	20.11	20.68