

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: P865843

Luminaire Tested: PRLX-2004-S-935-20L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-S-935-20L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

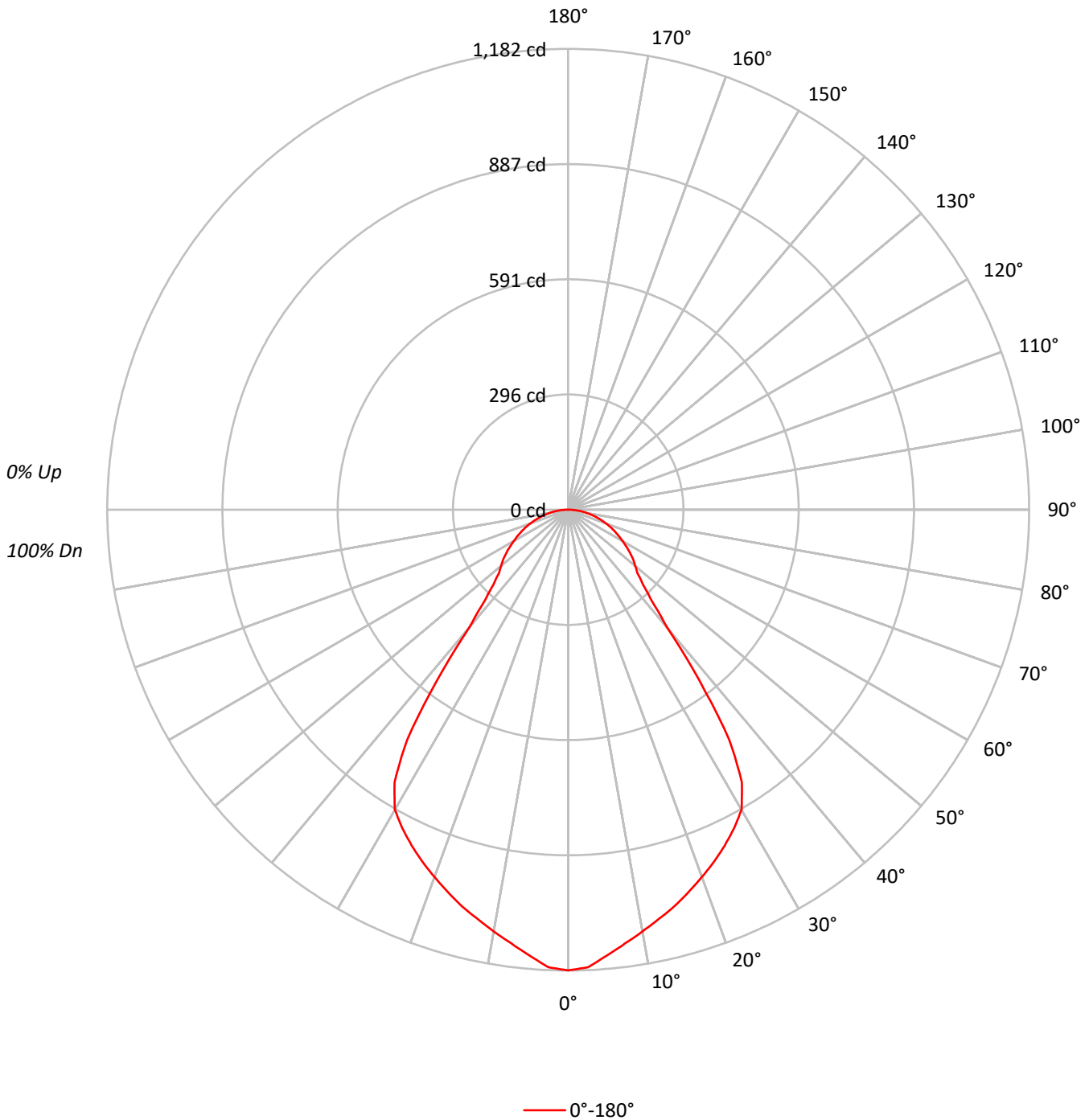
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1894.5 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.07  
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	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49
7	72	61	53	47	71	60	53	47	58	52	47	57	51	47	56	50	46	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

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

	0°
0°	19272
5°	18782
10°	18191
15°	17782
20°	17400
25°	17096
30°	16733
35°	14340
40°	8399
45°	6260
50°	5694
55°	5505
60°	5252
65°	5098
70°	4917
75°	4789
80°	4593
85°	4398

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6260 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.0	5.7
10°-20°	296.7	15.7
20°-30°	437.5	23.1
30°-40°	424.4	22.4
40°-50°	218.7	11.5
50°-60°	172.9	9.1
60°-70°	130.7	6.9
70°-80°	79.7	4.2
80°-90°	25.9	1.4
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°	842.2	44.5
0°-40°	1266.5	66.9
0°-60°	1658.1	87.5
0°-90°	1894.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1894.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1182	
5°	1147	108
15°	1053	297
25°	950	437
35°	720	424
45°	271	219
55°	194	173
65°	132	131
75°	76	80
85°	24	26
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1181.6
2.5°	1174.4
5°	1147.2
7.5°	1121.9
10°	1098.4
12.5°	1074.9
15°	1053.1
17.5°	1027.8
20°	1002.5
22.5°	977.1
25°	950.0
27.5°	921.1
30°	888.5
32.5°	828.8
35°	720.2
37.5°	551.9
40°	394.5
42.5°	316.7
45°	271.4
47.5°	240.7
50°	224.4
52.5°	209.9
55°	193.6
57.5°	177.3
60°	161.0
62.5°	146.6
65°	132.1
67.5°	117.6
70°	103.1
72.5°	88.7
75°	76.0
77.5°	61.5
80°	48.9
82.5°	36.2
85°	23.5
87.5°	10.9
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	16.39	17.75	16.76	18.07	18.38	16.39	17.75	16.76	18.07	18.38
	3H	18.21	19.44	18.59	19.76	20.13	18.21	19.44	18.59	19.76	20.13
	4H	18.94	20.09	19.35	20.44	20.82	18.94	20.09	19.35	20.44	20.82
	6H	19.52	20.57	19.93	20.94	21.34	19.52	20.57	19.93	20.94	21.34
	8H	19.73	20.73	20.16	21.12	21.52	19.73	20.73	20.16	21.12	21.52
	12H	19.88	20.84	20.31	21.22	21.65	19.88	20.84	20.31	21.22	21.65
4H	2H	16.98	18.13	17.39	18.48	18.86	16.98	18.13	17.39	18.48	18.86
	3H	19.03	19.98	19.44	20.38	20.79	19.03	19.98	19.44	20.38	20.79
	4H	19.90	20.76	20.33	21.17	21.62	19.90	20.76	20.33	21.17	21.62
	6H	20.61	21.36	21.07	21.80	22.27	20.61	21.36	21.07	21.80	22.27
	8H	20.88	21.57	21.34	22.02	22.49	20.88	21.57	21.34	22.02	22.49
	12H	21.08	21.70	21.57	22.18	22.65	21.08	21.70	21.57	22.18	22.65
8H	4H	20.21	20.91	20.68	21.35	21.82	20.21	20.91	20.68	21.35	21.82
	6H	21.07	21.64	21.57	22.14	22.62	21.07	21.64	21.57	22.14	22.62
	8H	21.43	21.94	21.95	22.46	22.95	21.43	21.94	21.95	22.46	22.95
	12H	21.74	22.19	22.25	22.68	23.25	21.74	22.19	22.25	22.68	23.25
12H	4H	20.24	20.86	20.73	21.34	21.81	20.24	20.86	20.73	21.34	21.81
	6H	21.14	21.65	21.66	22.17	22.66	21.14	21.65	21.66	22.17	22.66
	8H	21.57	22.02	22.08	22.51	23.08	21.57	22.02	22.08	22.51	23.08