

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: P865819

Luminaire Tested: PRLX-2004-S-935-05L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865819  
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-935-05L-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 1  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

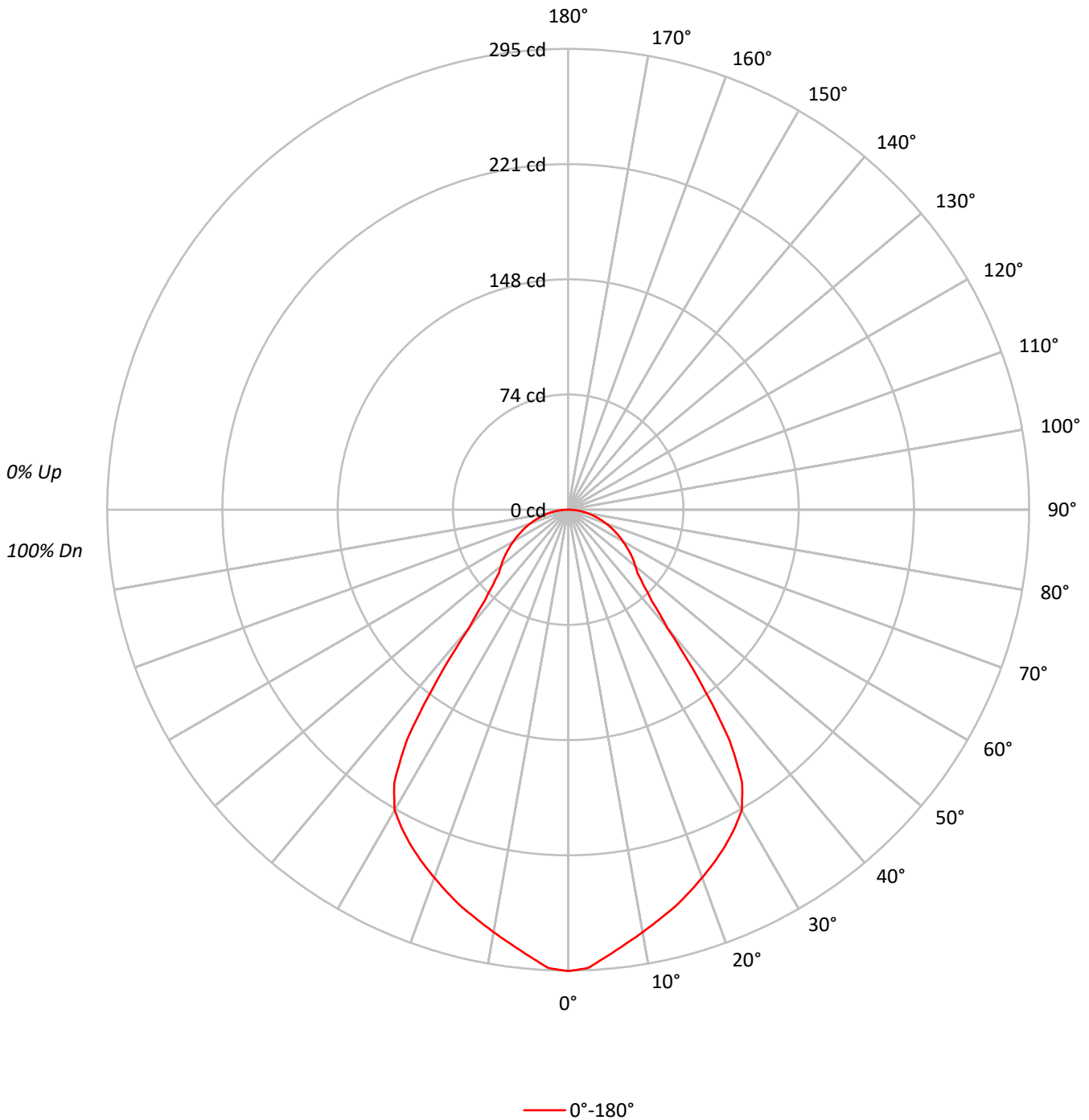
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 473.6 lumens  
Efficiency: N/A  
Efficacy: 76.4 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): 6.2  
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°	4818
5°	4696
10°	4548
15°	4446
20°	4350
25°	4274
30°	4183
35°	3584
40°	2099
45°	1566
50°	1423
55°	1376
60°	1315
65°	1274
70°	1230
75°	1197
80°	1146
85°	1104

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1566 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.0	5.7
10°-20°	74.2	15.7
20°-30°	109.4	23.1
30°-40°	106.1	22.4
40°-50°	54.7	11.5
50°-60°	43.2	9.1
60°-70°	32.7	6.9
70°-80°	19.9	4.2
80°-90°	6.4	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°	210.6	44.5
0°-40°	316.6	66.9
0°-60°	414.6	87.5
0°-90°	473.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	473.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	295	
5°	287	27
15°	263	74
25°	238	109
35°	180	106
45°	68	55
55°	48	43
65°	33	33
75°	19	20
85°	6	6
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	295.4
2.5°	293.6
5°	286.8
7.5°	280.5
10°	274.6
12.5°	268.7
15°	263.3
17.5°	257.0
20°	250.6
22.5°	244.3
25°	237.5
27.5°	230.3
30°	222.1
32.5°	207.2
35°	180.0
37.5°	138.0
40°	98.6
42.5°	79.2
45°	67.9
47.5°	60.2
50°	56.1
52.5°	52.5
55°	48.4
57.5°	44.3
60°	40.3
62.5°	36.6
65°	33.0
67.5°	29.4
70°	25.8
72.5°	22.2
75°	19.0
77.5°	15.4
80°	12.2
82.5°	9.0
85°	5.9
87.5°	2.7
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	11.57	12.93	11.94	13.25	13.56	11.57	12.93	11.94	13.25	13.56
	3H	13.40	14.62	13.78	14.95	15.31	13.40	14.62	13.78	14.95	15.31
	4H	14.13	15.27	14.53	15.62	16.00	14.13	15.27	14.53	15.62	16.00
	6H	14.70	15.76	15.12	16.13	16.52	14.70	15.76	15.12	16.13	16.52
	8H	14.91	15.91	15.34	16.30	16.71	14.91	15.91	15.34	16.30	16.71
	12H	15.06	16.02	15.49	16.40	16.83	15.06	16.02	15.49	16.40	16.83
4H	2H	12.16	13.31	12.57	13.66	14.04	12.16	13.31	12.57	13.66	14.04
	3H	14.21	15.16	14.63	15.57	15.97	14.21	15.16	14.63	15.57	15.97
	4H	15.08	15.94	15.52	16.36	16.80	15.08	15.94	15.52	16.36	16.80
	6H	15.80	16.54	16.26	16.99	17.45	15.80	16.54	16.26	16.99	17.45
	8H	16.06	16.75	16.53	17.20	17.67	16.06	16.75	16.53	17.20	17.67
	12H	16.26	16.88	16.75	17.36	17.84	16.26	16.88	16.75	17.36	17.84
8H	4H	15.40	16.09	15.86	16.54	17.01	15.40	16.09	15.86	16.54	17.01
	6H	16.26	16.83	16.76	17.32	17.80	16.26	16.83	16.76	17.32	17.80
	8H	16.61	17.12	17.13	17.64	18.13	16.61	17.12	17.13	17.64	18.13
	12H	16.92	17.37	17.43	17.86	18.43	16.92	17.37	17.43	17.86	18.43
12H	4H	15.43	16.04	15.91	16.53	17.00	15.43	16.04	15.91	16.53	17.00
	6H	16.32	16.84	16.84	17.35	17.84	16.32	16.84	16.84	17.35	17.84
	8H	16.75	17.20	17.26	17.69	18.26	16.75	17.20	17.26	17.69	18.26