

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: P865528

Luminaire Tested: PRLX-2001-S-935-25L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-935-25L-L-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

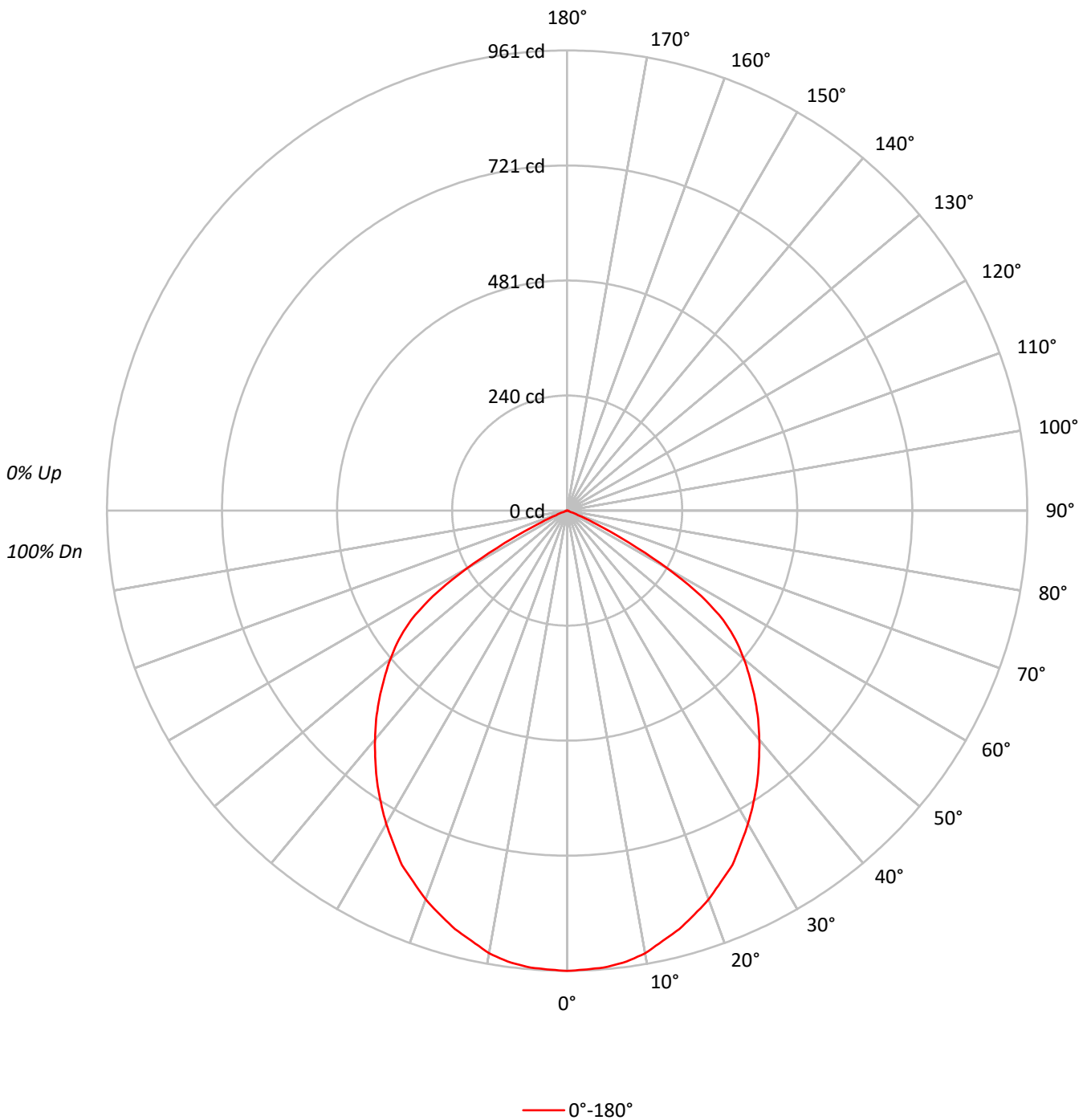
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2016.7 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.29  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.1  
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

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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	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	70	62	56	80	69	62	56	67	61	56	65	60	55	64	59	54	53
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

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

	0°
0°	15679
5°	15665
10°	15546
15°	15278
20°	14998
25°	14696
30°	14229
35°	13780
40°	13292
45°	12783
50°	12225
55°	11320
60°	7969
65°	2620
70°	215
75°	145
80°	216
85°	430

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12783 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.8	4.5
10°-20°	254.9	12.6
20°-30°	374.7	18.6
30°-40°	432.5	21.4
40°-50°	427.5	21.2
50°-60°	342.7	17.0
60°-70°	88.8	4.4
70°-80°	2.7	0.1
80°-90°	2.2	0.1
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°	720.3	35.7
0°-40°	1152.7	57.2
0°-60°	1923.0	95.4
0°-90°	2016.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2016.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	961	
5°	957	91
15°	905	255
25°	817	375
35°	692	432
45°	554	427
55°	398	343
65°	68	89
75°	2	3
85°	2	2
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	961.3
2.5°	959.1
5°	956.8
7.5°	950.0
10°	938.7
12.5°	920.6
15°	904.8
17.5°	884.4
20°	864.1
22.5°	839.2
25°	816.6
27.5°	784.9
30°	755.5
32.5°	723.8
35°	692.1
37.5°	658.2
40°	624.3
42.5°	590.4
45°	554.2
47.5°	518.0
50°	481.8
52.5°	443.3
55°	398.1
57.5°	332.5
60°	244.3
62.5°	147.0
65°	67.9
67.5°	24.9
70°	4.5
72.5°	2.3
75°	2.3
77.5°	2.3
80°	2.3
82.5°	2.3
85°	2.3
87.5°	2.3
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	20.34	21.79	20.70	22.10	22.42	20.34	21.79	20.70	22.10	22.42
	3H	20.24	21.52	20.62	21.85	22.21	20.24	21.52	20.62	21.85	22.21
	4H	20.17	21.36	20.57	21.71	22.09	20.17	21.36	20.57	21.71	22.09
	6H	20.11	21.20	20.52	21.56	21.96	20.11	21.20	20.52	21.56	21.96
	8H	20.07	21.10	20.50	21.49	21.89	20.07	21.10	20.50	21.49	21.89
	12H	20.03	21.02	20.46	21.40	21.83	20.03	21.02	20.46	21.40	21.83
4H	2H	20.24	21.43	20.65	21.78	22.16	20.24	21.43	20.65	21.78	22.16
	3H	20.15	21.11	20.56	21.51	21.91	20.15	21.11	20.56	21.51	21.91
	4H	20.07	20.92	20.50	21.34	21.78	20.07	20.92	20.50	21.34	21.78
	6H	20.00	20.73	20.46	21.18	21.64	20.00	20.73	20.46	21.18	21.64
	8H	19.95	20.63	20.42	21.08	21.55	19.95	20.63	20.42	21.08	21.55
	12H	19.91	20.52	20.39	21.00	21.47	19.91	20.52	20.39	21.00	21.47
8H	4H	19.95	20.63	20.41	21.08	21.55	19.95	20.63	20.41	21.08	21.55
	6H	19.85	20.41	20.35	20.91	21.39	19.85	20.41	20.35	20.91	21.39
	8H	19.79	20.30	20.31	20.81	21.30	19.79	20.30	20.31	20.81	21.30
	12H	19.75	20.20	20.26	20.70	21.27	19.75	20.20	20.26	20.70	21.27
12H	4H	19.90	20.51	20.39	20.99	21.47	19.90	20.51	20.39	20.99	21.47
	6H	19.79	20.30	20.31	20.81	21.30	19.79	20.30	20.31	20.81	21.30
	8H	19.74	20.20	20.26	20.69	21.26	19.74	20.20	20.26	20.69	21.26