

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: P866048

Luminaire Tested: PRLX-2001-M-935-35L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-935-35L-L-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

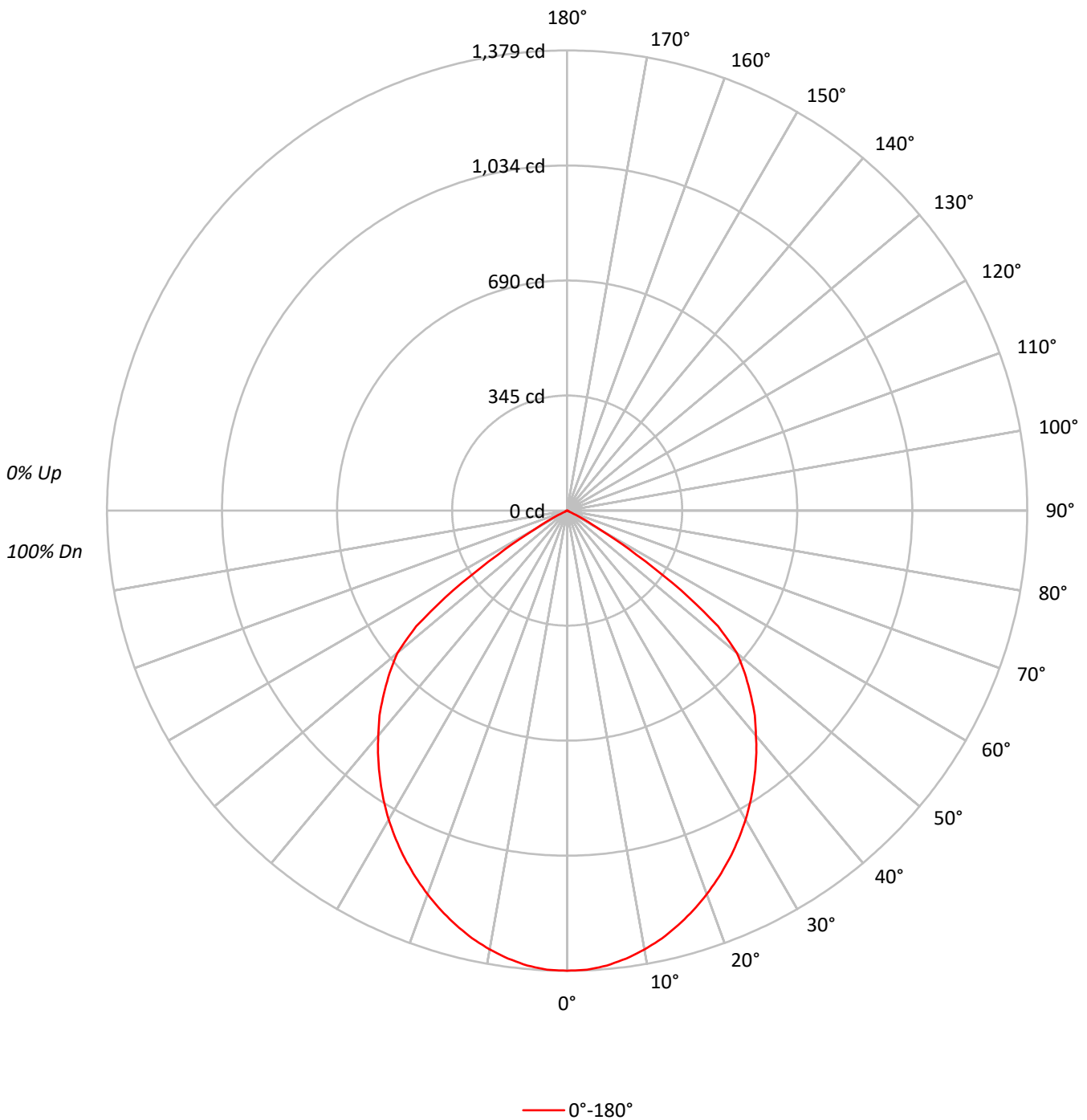
Lumens per Lamp: N/A  
Luminaire Lumens: 2623.2 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct

Input Watts (W): 30  
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	112	108	105	103	109	106	103	101	102	100	98		98	97	95		95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	86		90	86	84		87	84	82	80
3	97	88	82	77	95	87	81	76	84	79	75		82	77	74		79	76	73	71
4	90	80	73	67	88	79	72	67	76	71	66		74	69	65		72	68	64	63
5	83	73	65	60	82	72	65	59	70	63	59		68	62	58		66	61	58	56
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		61	55	52	50
7	72	60	53	47	71	60	52	47	58	52	47		57	51	47		56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42		52	47	42		51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44	39	35	33

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

	0°
0°	11702
5°	11658
10°	11506
15°	11298
20°	11047
25°	10778
30°	10479
35°	10134
40°	9753
45°	9324
50°	8765
55°	6183
60°	1950
65°	133
70°	94
75°	92
80°	93
85°	88

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9324 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.6	4.9
10°-20°	362.3	13.8
20°-30°	529.8	20.2
30°-40°	611.5	23.3
40°-50°	598.4	22.8
50°-60°	359.0	13.7
60°-70°	28.0	1.1
70°-80°	3.2	0.1
80°-90°	1.3	0.0
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°	1021.7	38.9
0°-40°	1633.2	62.3
0°-60°	2590.7	98.8
0°-90°	2623.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2623.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1379	
5°	1369	130
15°	1286	362
25°	1151	530
35°	978	612
45°	777	598
55°	418	359
65°	7	28
75°	3	3
85°	1	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1379.0
2.5°	1377.1
5°	1368.6
7.5°	1354.3
10°	1335.3
12.5°	1313.5
15°	1286.0
17.5°	1256.5
20°	1223.3
22.5°	1188.1
25°	1151.1
27.5°	1111.2
30°	1069.4
32.5°	1024.8
35°	978.2
37.5°	930.7
40°	880.4
42.5°	832.0
45°	776.9
47.5°	721.8
50°	663.9
52.5°	569.8
55°	417.9
57.5°	246.0
60°	114.9
62.5°	45.6
65°	6.6
67.5°	3.8
70°	3.8
72.5°	3.8
75°	2.8
77.5°	2.8
80°	1.9
82.5°	1.9
85°	0.9
87.5°	0.9
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	15.01	16.39	15.38	16.70	17.02	15.01	16.39	15.38	16.70	17.02
	3H	14.89	16.10	15.27	16.43	16.79	14.89	16.10	15.27	16.43	16.79
	4H	14.82	15.94	15.23	16.29	16.67	14.82	15.94	15.23	16.29	16.67
	6H	14.75	15.77	15.16	16.14	16.54	14.75	15.77	15.16	16.14	16.54
	8H	14.71	15.68	15.14	16.07	16.47	14.71	15.68	15.14	16.07	16.47
	12H	14.67	15.59	15.10	15.98	16.41	14.67	15.59	15.10	15.98	16.41
4H	2H	14.82	15.94	15.23	16.29	16.67	14.82	15.94	15.23	16.29	16.67
	3H	14.70	15.60	15.12	16.00	16.41	14.70	15.60	15.12	16.00	16.41
	4H	14.62	15.41	15.05	15.83	16.28	14.62	15.41	15.05	15.83	16.28
	6H	14.54	15.22	15.00	15.67	16.14	14.54	15.22	15.00	15.67	16.14
	8H	14.48	15.12	14.95	15.57	16.04	14.48	15.12	14.95	15.57	16.04
	12H	14.44	15.00	14.92	15.49	15.96	14.44	15.00	14.92	15.49	15.96
8H	4H	14.48	15.12	14.95	15.57	16.04	14.48	15.12	14.95	15.57	16.04
	6H	14.38	14.90	14.88	15.40	15.88	14.38	14.90	14.88	15.40	15.88
	8H	14.31	14.79	14.83	15.30	15.80	14.31	14.79	14.83	15.30	15.80
	12H	14.26	14.69	14.77	15.19	15.76	14.26	14.69	14.77	15.19	15.76
12H	4H	14.43	15.00	14.92	15.48	15.96	14.43	15.00	14.92	15.48	15.96
	6H	14.31	14.79	14.83	15.30	15.79	14.31	14.79	14.83	15.30	15.79
	8H	14.26	14.69	14.77	15.18	15.75	14.26	14.69	14.77	15.18	15.75