

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: P865994

Luminaire Tested: PRLX-2001-M-930-45L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-930-45L-L-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

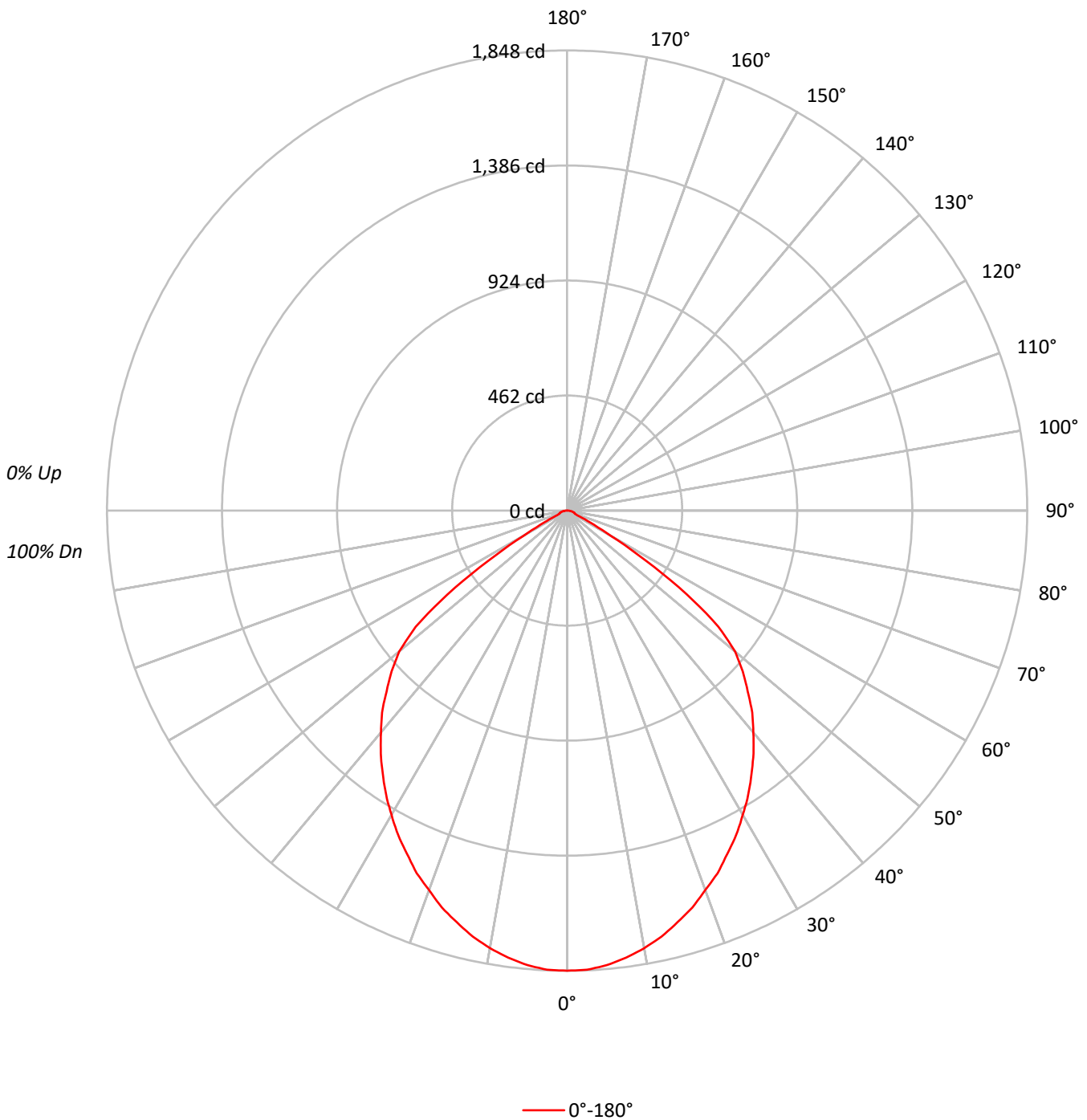
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3570.0 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.8  
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

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

	0°
0°	15681
5°	15609
10°	15377
15°	15036
20°	14645
25°	14243
30°	13827
35°	13378
40°	12887
45°	12309
50°	11614
55°	8695
60°	3433
65°	938
70°	801
75°	862
80°	933
85°	935

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12309 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.3	4.9
10°-20°	482.3	13.5
20°-30°	701.2	19.6
30°-40°	807.6	22.6
40°-50°	791.5	22.2
50°-60°	502.8	14.1
60°-70°	73.2	2.1
70°-80°	27.6	0.8
80°-90°	10.4	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°	1356.9	38.0
0°-40°	2164.4	60.6
0°-60°	3458.7	96.9
0°-90°	3570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3570.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1848	
5°	1832	173
15°	1712	482
25°	1521	701
35°	1291	808
45°	1026	791
55°	588	503
65°	47	73
75°	26	28
85°	10	10
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1847.9
2.5°	1845.5
5°	1832.4
7.5°	1810.8
10°	1784.5
12.5°	1752.2
15°	1711.5
17.5°	1672.0
20°	1621.7
22.5°	1577.4
25°	1521.2
27.5°	1469.7
30°	1411.1
32.5°	1353.6
35°	1291.4
37.5°	1229.2
40°	1163.3
42.5°	1099.9
45°	1025.7
47.5°	956.3
50°	879.7
52.5°	766.0
55°	587.7
57.5°	374.6
60°	202.3
62.5°	101.7
65°	46.7
67.5°	33.5
70°	32.3
72.5°	29.9
75°	26.3
77.5°	22.7
80°	19.1
82.5°	14.4
85°	9.6
87.5°	4.8
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	16.87	18.27	17.23	18.58	18.90	16.87	18.27	17.23	18.58	18.90
	3H	16.80	18.03	17.18	18.36	18.73	16.80	18.03	17.18	18.36	18.73
	4H	16.78	17.92	17.18	18.27	18.65	16.78	17.92	17.18	18.27	18.65
	6H	16.75	17.81	17.17	18.17	18.57	16.75	17.81	17.17	18.17	18.57
	8H	16.74	17.73	17.17	18.12	18.53	16.74	17.73	17.17	18.12	18.53
	12H	16.72	17.67	17.15	18.05	18.48	16.72	17.67	17.15	18.05	18.48
4H	2H	16.71	17.86	17.11	18.21	18.59	16.71	17.86	17.11	18.21	18.59
	3H	16.67	17.60	17.09	18.00	18.40	16.67	17.60	17.09	18.00	18.40
	4H	16.66	17.48	17.10	17.90	18.34	16.66	17.48	17.10	17.90	18.34
	6H	16.67	17.38	17.13	17.83	18.29	16.67	17.38	17.13	17.83	18.29
	8H	16.66	17.32	17.13	17.77	18.24	16.66	17.32	17.13	17.77	18.24
	12H	16.65	17.24	17.14	17.72	18.20	16.65	17.24	17.14	17.72	18.20
8H	4H	16.57	17.23	17.04	17.68	18.15	16.57	17.23	17.04	17.68	18.15
	6H	16.59	17.14	17.09	17.63	18.11	16.59	17.14	17.09	17.63	18.11
	8H	16.59	17.09	17.11	17.60	18.09	16.59	17.09	17.11	17.60	18.09
	12H	16.60	17.05	17.12	17.55	18.11	16.60	17.05	17.12	17.55	18.11
12H	4H	16.53	17.12	17.02	17.60	18.07	16.53	17.12	17.02	17.60	18.07
	6H	16.54	17.04	17.06	17.55	18.04	16.54	17.04	17.06	17.55	18.04
	8H	16.57	17.02	17.08	17.51	18.08	16.57	17.02	17.08	17.51	18.08