

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: P865928

Luminaire Tested: PRLX-2001-M-927-45L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865928  
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-927-45L-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 5  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

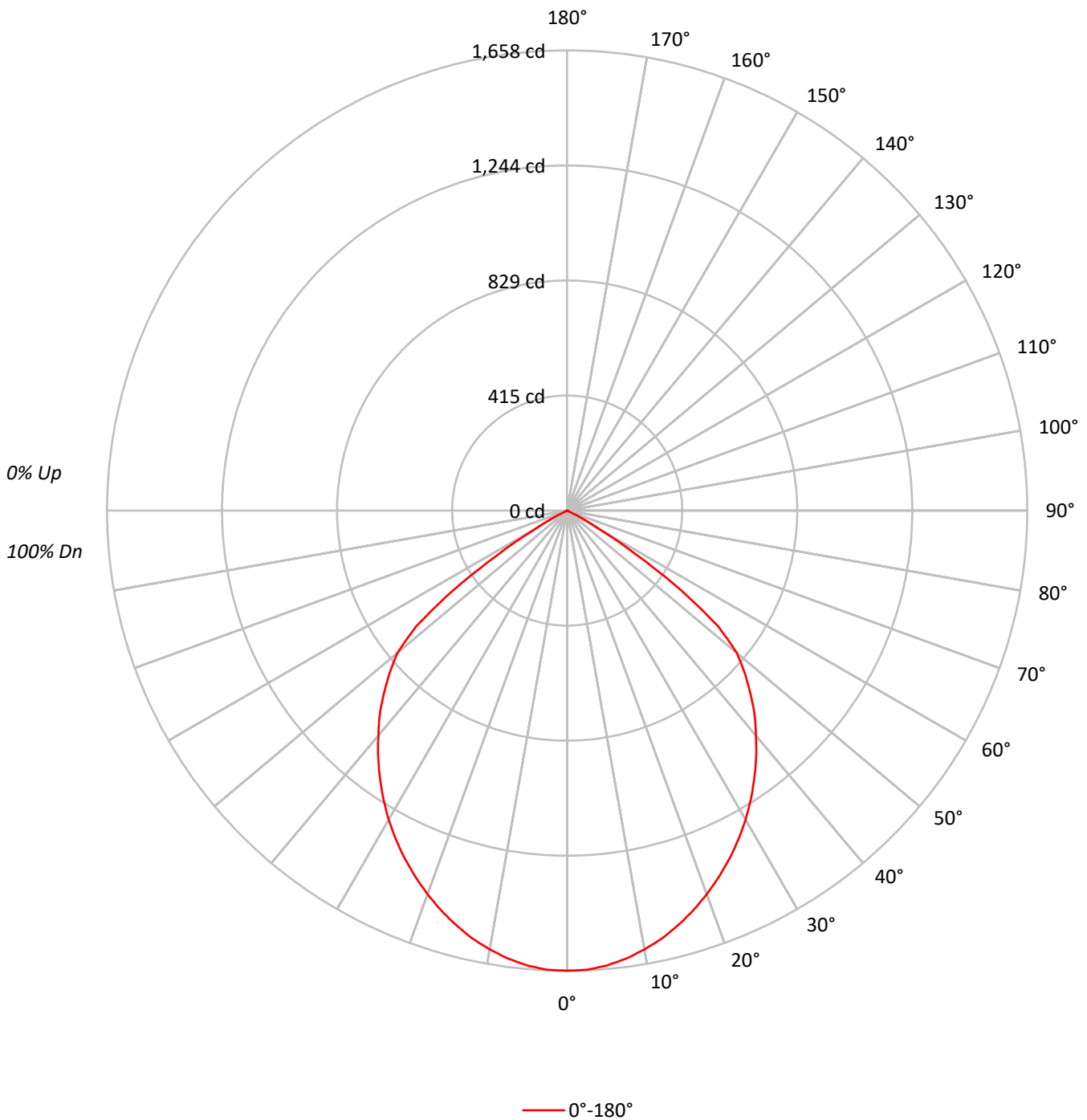
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3153.7 lumens  
Efficiency: N/A  
Efficacy: 81.3 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): 38.8  
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	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°	14069
5°	14015
10°	13833
15°	13582
20°	13280
25°	12957
30°	12597
35°	12183
40°	11725
45°	11209
50°	10536
55°	7433
60°	2346
65°	161
70°	114
75°	111
80°	112
85°	107

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11209 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.8	4.9
10°-20°	435.5	13.8
20°-30°	637.0	20.2
30°-40°	735.2	23.3
40°-50°	719.5	22.8
50°-60°	431.6	13.7
60°-70°	33.7	1.1
70°-80°	3.9	0.1
80°-90°	1.5	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°	1228.3	38.9
0°-40°	1963.5	62.3
0°-60°	3114.5	98.8
0°-90°	3153.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3153.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1658	
5°	1645	156
15°	1546	436
25°	1384	637
35°	1176	735
45°	934	719
55°	502	432
65°	8	34
75°	3	4
85°	1	2
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1657.9
2.5°	1655.6
5°	1645.3
7.5°	1628.2
10°	1605.3
12.5°	1579.1
15°	1546.0
17.5°	1510.6
20°	1470.6
22.5°	1428.4
25°	1383.8
27.5°	1335.9
30°	1285.6
32.5°	1232.0
35°	1176.0
37.5°	1118.9
40°	1058.4
42.5°	1000.2
45°	934.0
47.5°	867.8
50°	798.1
52.5°	685.1
55°	502.4
57.5°	295.7
60°	138.2
62.5°	54.8
65°	8.0
67.5°	4.6
70°	4.6
72.5°	4.6
75°	3.4
77.5°	3.4
80°	2.3
82.5°	2.3
85°	1.1
87.5°	1.1
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	15.65	17.03	16.02	17.34	17.65	15.65	17.03	16.02	17.34	17.65
	3H	15.53	16.73	15.91	17.06	17.43	15.53	16.73	15.91	17.06	17.43
	4H	15.46	16.58	15.86	16.93	17.31	15.46	16.58	15.86	16.93	17.31
	6H	15.39	16.41	15.80	16.78	17.17	15.39	16.41	15.80	16.78	17.17
	8H	15.35	16.32	15.78	16.71	17.11	15.35	16.32	15.78	16.71	17.11
	12H	15.31	16.23	15.74	16.61	17.04	15.31	16.23	15.74	16.61	17.04
4H	2H	15.46	16.58	15.86	16.93	17.31	15.46	16.58	15.86	16.93	17.31
	3H	15.34	16.24	15.75	16.64	17.04	15.34	16.24	15.75	16.64	17.04
	4H	15.26	16.05	15.69	16.47	16.91	15.26	16.05	15.69	16.47	16.91
	6H	15.18	15.86	15.64	16.31	16.78	15.18	15.86	15.64	16.31	16.78
	8H	15.12	15.76	15.59	16.21	16.68	15.12	15.76	15.59	16.21	16.68
	12H	15.08	15.64	15.56	16.13	16.60	15.08	15.64	15.56	16.13	16.60
8H	4H	15.12	15.76	15.59	16.21	16.68	15.12	15.76	15.59	16.21	16.68
	6H	15.02	15.54	15.52	16.04	16.52	15.02	15.54	15.52	16.04	16.52
	8H	14.95	15.43	15.47	15.94	16.44	14.95	15.43	15.47	15.94	16.44
	12H	14.90	15.33	15.41	15.82	16.39	14.90	15.33	15.41	15.82	16.39
12H	4H	15.07	15.64	15.56	16.12	16.60	15.07	15.64	15.56	16.12	16.60
	6H	14.95	15.43	15.47	15.94	16.43	14.95	15.43	15.47	15.94	16.43
	8H	14.90	15.33	15.41	15.82	16.39	14.90	15.33	15.41	15.82	16.39