

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: P865930

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865930  
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-927-45L-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

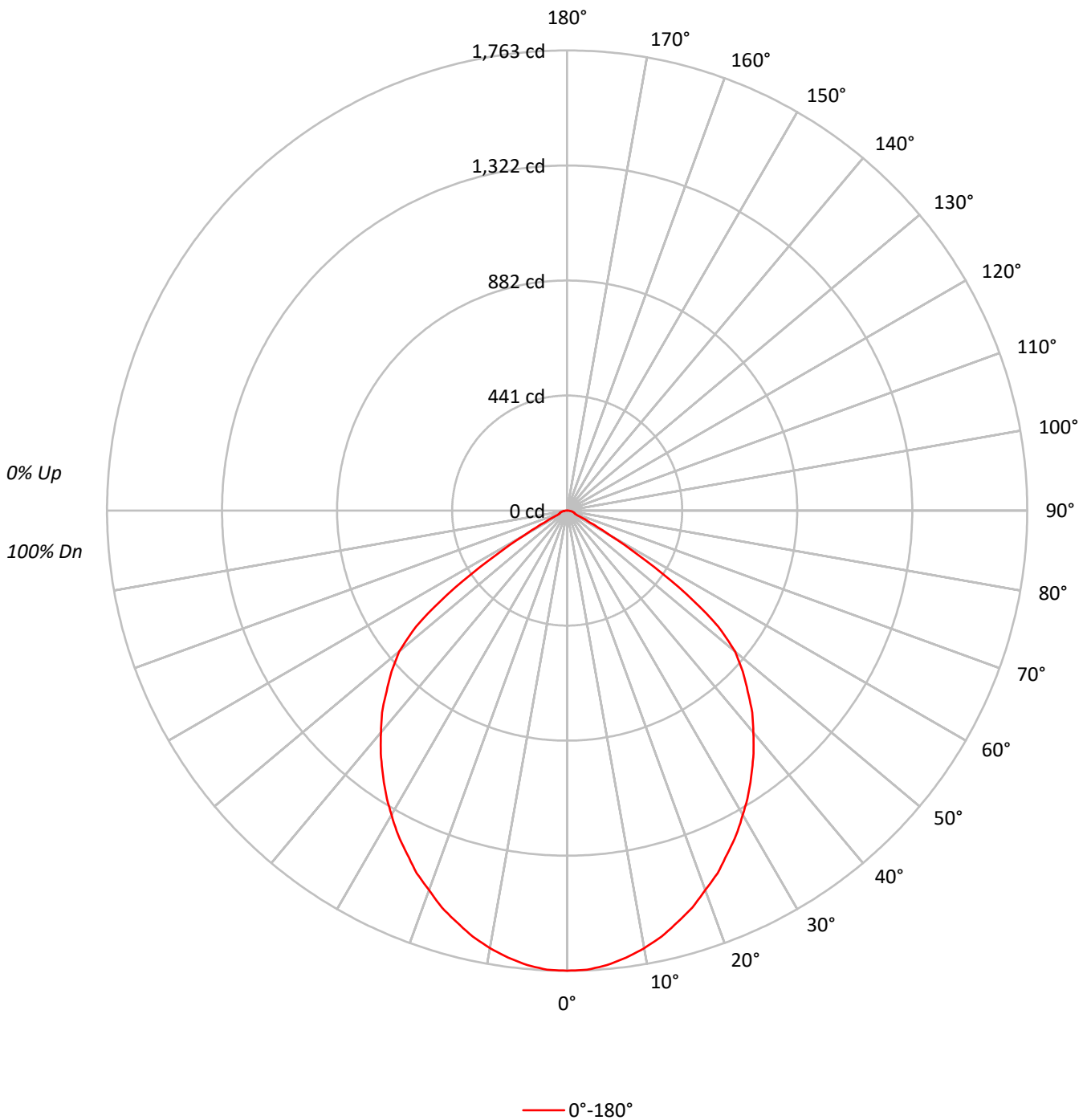
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3405.8 lumens  
Efficiency: N/A  
Efficacy: 87.8 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°	14960
5°	14891
10°	14669
15°	14344
20°	13971
25°	13588
30°	13191
35°	12763
40°	12294
45°	11743
50°	11079
55°	8294
60°	3276
65°	894
70°	764
75°	823
80°	894
85°	886

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11743 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.4	4.9
10°-20°	460.1	13.5
20°-30°	669.0	19.6
30°-40°	770.4	22.6
40°-50°	755.0	22.2
50°-60°	479.7	14.1
60°-70°	69.9	2.1
70°-80°	26.4	0.8
80°-90°	9.9	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°	1294.5	38.0
0°-40°	2064.9	60.6
0°-60°	3299.6	96.9
0°-90°	3405.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3405.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1763	
5°	1748	165
15°	1633	460
25°	1451	669
35°	1232	770
45°	978	755
55°	561	480
65°	44	70
75°	25	26
85°	9	10
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1762.9
2.5°	1760.6
5°	1748.1
7.5°	1727.5
10°	1702.4
12.5°	1671.6
15°	1632.7
17.5°	1595.1
20°	1547.1
22.5°	1504.9
25°	1451.2
27.5°	1402.1
30°	1346.2
32.5°	1291.4
35°	1232.0
37.5°	1172.6
40°	1109.8
42.5°	1049.3
45°	978.5
47.5°	912.3
50°	839.2
52.5°	730.7
55°	560.6
57.5°	357.4
60°	193.0
62.5°	97.1
65°	44.5
67.5°	32.0
70°	30.8
72.5°	28.5
75°	25.1
77.5°	21.7
80°	18.3
82.5°	13.7
85°	9.1
87.5°	4.6
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	16.71	18.11	17.07	18.42	18.74	16.71	18.11	17.07	18.42	18.74
	3H	16.64	17.87	17.02	18.20	18.56	16.64	17.87	17.02	18.20	18.56
	4H	16.61	17.76	17.02	18.11	18.49	16.61	17.76	17.02	18.11	18.49
	6H	16.59	17.64	17.01	18.01	18.41	16.59	17.64	17.01	18.01	18.41
	8H	16.58	17.57	17.01	17.96	18.37	16.58	17.57	17.01	17.96	18.37
	12H	16.56	17.51	16.99	17.89	18.32	16.56	17.51	16.99	17.89	18.32
4H	2H	16.55	17.69	16.95	18.04	18.43	16.55	17.69	16.95	18.04	18.43
	3H	16.51	17.43	16.92	17.84	18.24	16.51	17.43	16.92	17.84	18.24
	4H	16.50	17.32	16.93	17.74	18.18	16.50	17.32	16.93	17.74	18.18
	6H	16.51	17.22	16.97	17.66	18.13	16.51	17.22	16.97	17.66	18.13
	8H	16.50	17.16	16.97	17.61	18.08	16.50	17.16	16.97	17.61	18.08
	12H	16.49	17.08	16.98	17.56	18.03	16.49	17.08	16.98	17.56	18.03
8H	4H	16.40	17.07	16.87	17.51	17.98	16.40	17.07	16.87	17.51	17.98
	6H	16.43	16.97	16.93	17.47	17.95	16.43	16.97	16.93	17.47	17.95
	8H	16.43	16.93	16.95	17.44	17.93	16.43	16.93	16.95	17.44	17.93
	12H	16.44	16.89	16.95	17.38	17.95	16.44	16.89	16.95	17.38	17.95
12H	4H	16.37	16.96	16.85	17.44	17.91	16.37	16.96	16.85	17.44	17.91
	6H	16.38	16.88	16.90	17.39	17.88	16.38	16.88	16.90	17.39	17.88
	8H	16.41	16.86	16.92	17.35	17.92	16.41	16.86	16.92	17.35	17.92