

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: P865911

Luminaire Tested: PRLX-2001-M-927-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865911  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-927-25L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

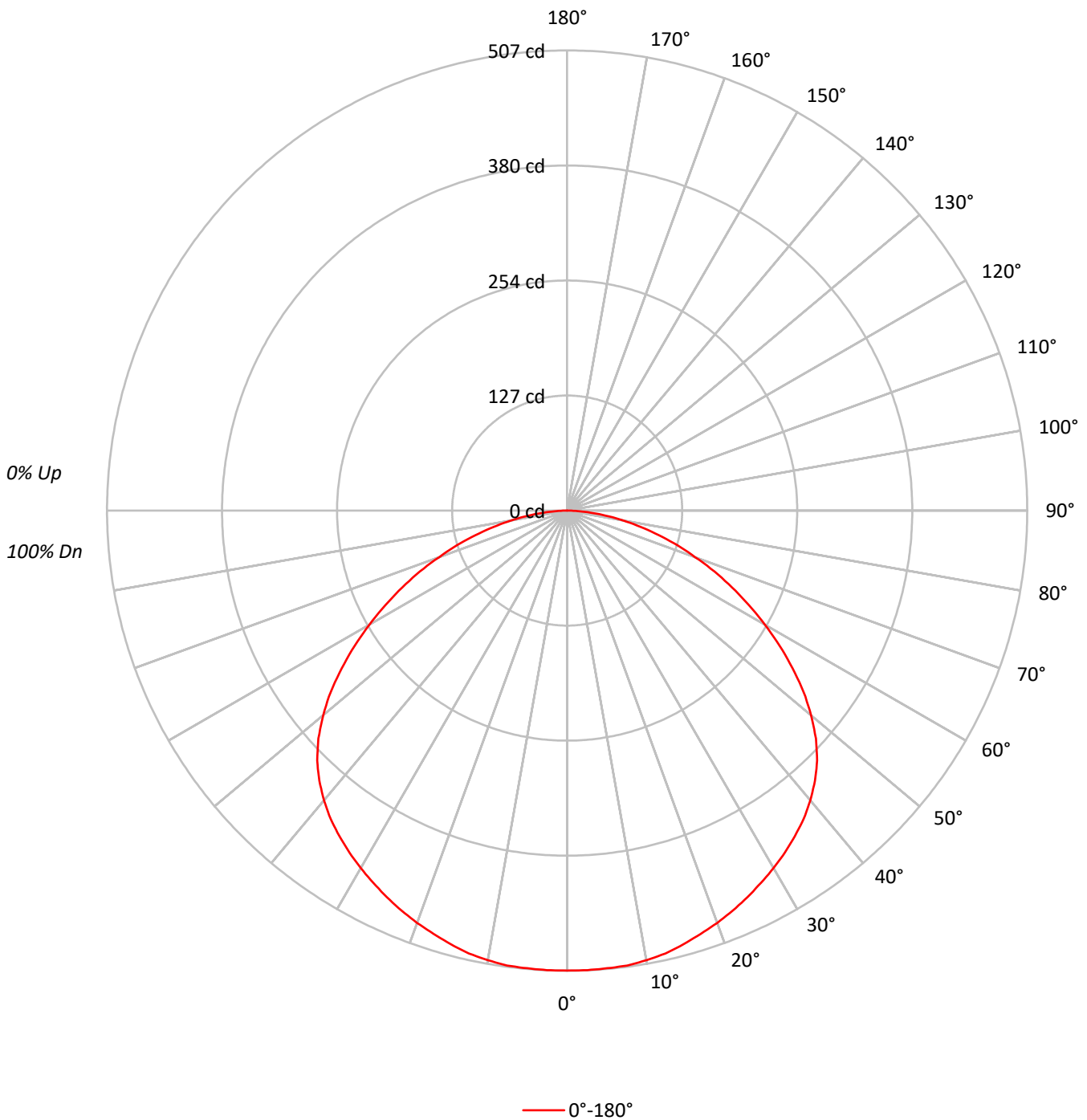
Lumens per Lamp: N/A  
Luminaire Lumens: 1588.9 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.7  
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: 0.333 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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

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

	0°
0°	4301
5°	4312
10°	4334
15°	4347
20°	4365
25°	4401
30°	4456
35°	4534
40°	4616
45°	4674
50°	4631
55°	4486
60°	4274
65°	4024
70°	3729
75°	3433
80°	3040
85°	2473

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4674 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	3.0
10°-20°	139.8	8.8
20°-30°	217.0	13.7
30°-40°	274.1	17.3
40°-50°	299.2	18.8
50°-60°	270.7	17.0
60°-70°	198.6	12.5
70°-80°	111.0	7.0
80°-90°	30.2	1.9
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°	405.0	25.5
0°-40°	679.1	42.7
0°-60°	1249.1	78.6
0°-90°	1588.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1588.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	507	
5°	506	48
15°	495	140
25°	470	217
35°	438	274
45°	390	299
55°	303	271
65°	200	199
75°	105	111
85°	25	30
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	506.8
2.5°	506.8
5°	506.2
7.5°	505.6
10°	503.0
12.5°	499.8
15°	494.8
17.5°	489.1
20°	483.4
22.5°	477.0
25°	470.0
27.5°	462.4
30°	454.8
32.5°	446.6
35°	437.7
37.5°	428.2
40°	416.7
42.5°	404.1
45°	389.5
47.5°	371.7
50°	350.8
52.5°	328.6
55°	303.2
57.5°	277.8
60°	251.8
62.5°	225.8
65°	200.4
67.5°	175.7
70°	150.3
72.5°	127.5
75°	104.7
77.5°	82.5
80°	62.2
82.5°	43.1
85°	25.4
87.5°	11.4
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	17.47	19.13	17.83	19.44	19.76	17.47	19.13	17.83	19.44	19.76
	3H	19.16	20.66	19.53	20.99	21.35	19.16	20.66	19.53	20.99	21.35
	4H	19.78	21.20	20.18	21.55	21.92	19.78	21.20	20.18	21.55	21.92
	6H	20.24	21.55	20.65	21.92	22.31	20.24	21.55	20.65	21.92	22.31
	8H	20.38	21.64	20.81	22.03	22.43	20.38	21.64	20.81	22.03	22.43
	12H	20.47	21.68	20.90	22.06	22.49	20.47	21.68	20.90	22.06	22.49
4H	2H	18.07	19.49	18.47	19.83	20.21	18.07	19.49	18.47	19.83	20.21
	3H	19.98	21.17	20.39	21.57	21.96	19.98	21.17	20.39	21.57	21.96
	4H	20.74	21.81	21.17	22.22	22.66	20.74	21.81	21.17	22.22	22.66
	6H	21.32	22.26	21.77	22.70	23.15	21.32	22.26	21.77	22.70	23.15
	8H	21.51	22.39	21.97	22.83	23.29	21.51	22.39	21.97	22.83	23.29
	12H	21.64	22.43	22.12	22.91	23.37	21.64	22.43	22.12	22.91	23.37
8H	4H	21.03	21.91	21.49	22.35	22.82	21.03	21.91	21.49	22.35	22.82
	6H	21.73	22.46	22.22	22.95	23.42	21.73	22.46	22.22	22.95	23.42
	8H	21.99	22.65	22.50	23.15	23.64	21.99	22.65	22.50	23.15	23.64
	12H	22.19	22.77	22.69	23.26	23.82	22.19	22.77	22.69	23.26	23.82
12H	4H	21.06	21.86	21.54	22.33	22.80	21.06	21.86	21.54	22.33	22.80
	6H	21.78	22.44	22.29	22.95	23.43	21.78	22.44	22.29	22.95	23.43
	8H	22.09	22.68	22.60	23.17	23.73	22.09	22.68	22.60	23.17	23.73