

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: P865948

Luminaire Tested: PRLX-2001-M-927-75L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-927-75L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

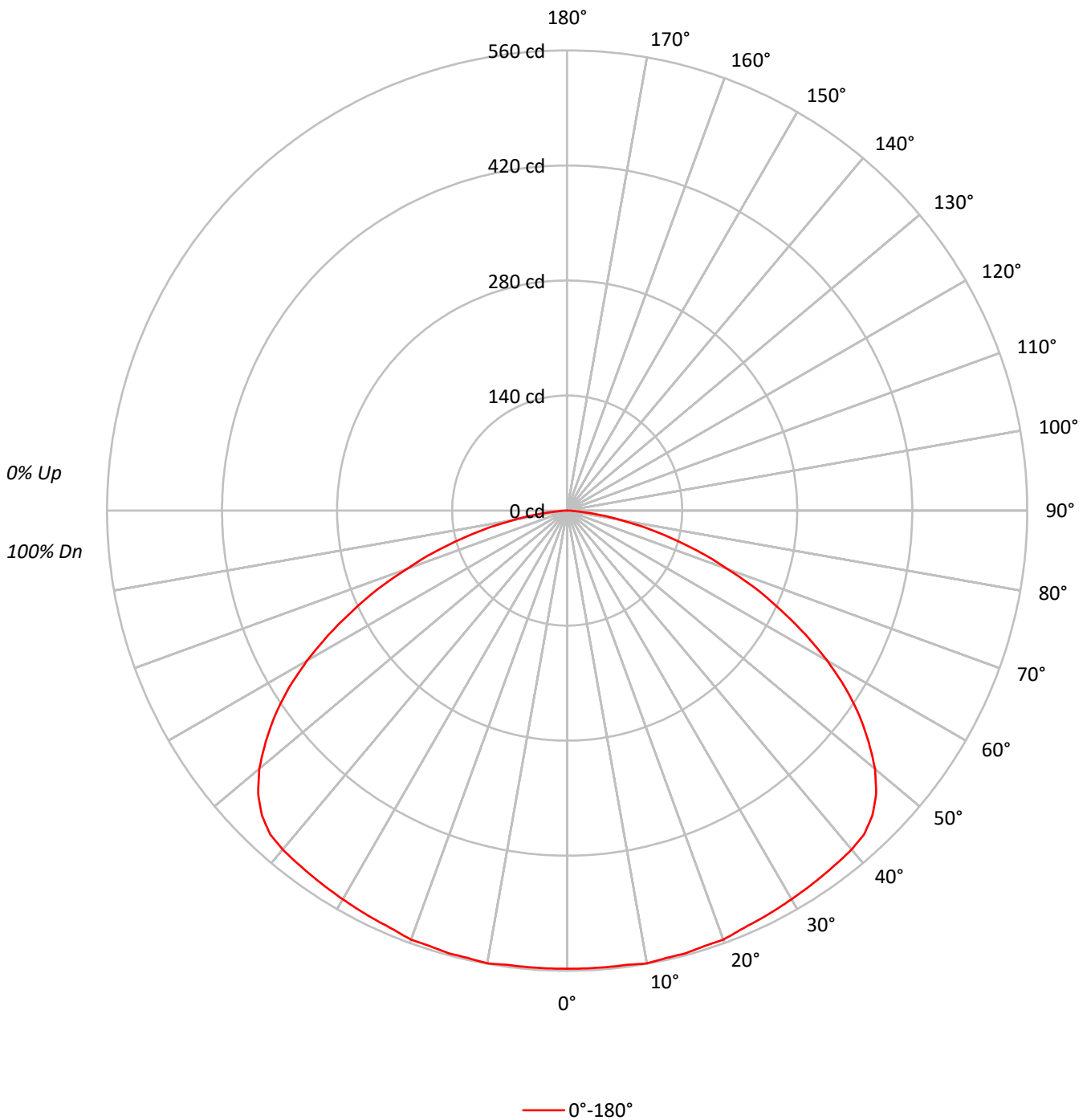
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2047.5 lumens  
Efficiency: N/A  
Efficacy: 29.4 lumens/watt  
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 69.7  
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: 0.5 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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

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

	0°
0°	4732
5°	4750
10°	4821
15°	4899
20°	5018
25°	5150
30°	5352
35°	5618
40°	5965
45°	6303
50°	6457
55°	6420
60°	6202
65°	5769
70°	5146
75°	4367
80°	3255
85°	1665

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 6457 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.3	2.6
10°-20°	157.9	7.7
20°-30°	254.6	12.4
30°-40°	340.6	16.6
40°-50°	402.9	19.7
50°-60°	385.9	18.8
60°-70°	284.5	13.9
70°-80°	142.4	7.0
80°-90°	25.6	1.3
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°	465.7	22.7
0°-40°	806.3	39.4
0°-60°	1595.1	77.9
0°-90°	2047.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2047.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	558	
5°	558	53
15°	558	158
25°	550	255
35°	542	341
45°	525	403
55°	434	386
65°	287	284
75°	133	142
85°	17	26
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	557.6
2.5°	557.6
5°	557.6
7.5°	557.6
10°	559.5
12.5°	557.6
15°	557.6
17.5°	555.7
20°	555.7
22.5°	551.9
25°	550.0
27.5°	548.1
30°	546.2
32.5°	544.3
35°	542.3
37.5°	540.4
40°	538.5
42.5°	534.7
45°	525.2
47.5°	510.0
50°	489.1
52.5°	462.4
55°	433.9
57.5°	401.5
60°	365.4
62.5°	327.3
65°	287.3
67.5°	249.3
70°	207.4
72.5°	171.3
75°	133.2
77.5°	99.0
80°	66.6
82.5°	40.0
85°	17.1
87.5°	3.8
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	19.10	20.80	19.46	21.11	21.43	19.10	20.80	19.46	21.11	21.43
	3H	20.71	22.25	21.09	22.58	22.94	20.71	22.25	21.09	22.58	22.94
	4H	21.23	22.68	21.63	23.03	23.40	21.23	22.68	21.63	23.03	23.40
	6H	21.53	22.88	21.94	23.24	23.63	21.53	22.88	21.94	23.24	23.63
	8H	21.60	22.88	22.02	23.27	23.67	21.60	22.88	22.02	23.27	23.67
	12H	21.61	22.84	22.04	23.22	23.65	21.61	22.84	22.04	23.22	23.65
4H	2H	19.70	21.15	20.10	21.50	21.87	19.70	21.15	20.10	21.50	21.87
	3H	21.51	22.72	21.92	23.12	23.52	21.51	22.72	21.92	23.12	23.52
	4H	22.14	23.23	22.57	23.64	24.08	22.14	23.23	22.57	23.64	24.08
	6H	22.53	23.49	22.98	23.93	24.38	22.53	23.49	22.98	23.93	24.38
	8H	22.62	23.51	23.08	23.95	24.42	22.62	23.51	23.08	23.95	24.42
	12H	22.65	23.46	23.13	23.93	24.40	22.65	23.46	23.13	23.93	24.40
8H	4H	22.37	23.27	22.83	23.71	24.18	22.37	23.27	22.83	23.71	24.18
	6H	22.84	23.58	23.33	24.07	24.55	22.84	23.58	23.33	24.07	24.55
	8H	22.96	23.63	23.47	24.13	24.62	22.96	23.63	23.47	24.13	24.62
	12H	23.03	23.61	23.53	24.10	24.66	23.03	23.61	23.53	24.10	24.66
12H	4H	22.39	23.19	22.87	23.67	24.14	22.39	23.19	22.87	23.67	24.14
	6H	22.86	23.53	23.37	24.03	24.51	22.86	23.53	23.37	24.03	24.51
	8H	23.02	23.60	23.52	24.09	24.65	23.02	23.60	23.52	24.09	24.65