

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: P865459

Luminaire Tested: PRLX-2001-S-930-05L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865459  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-930-05L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

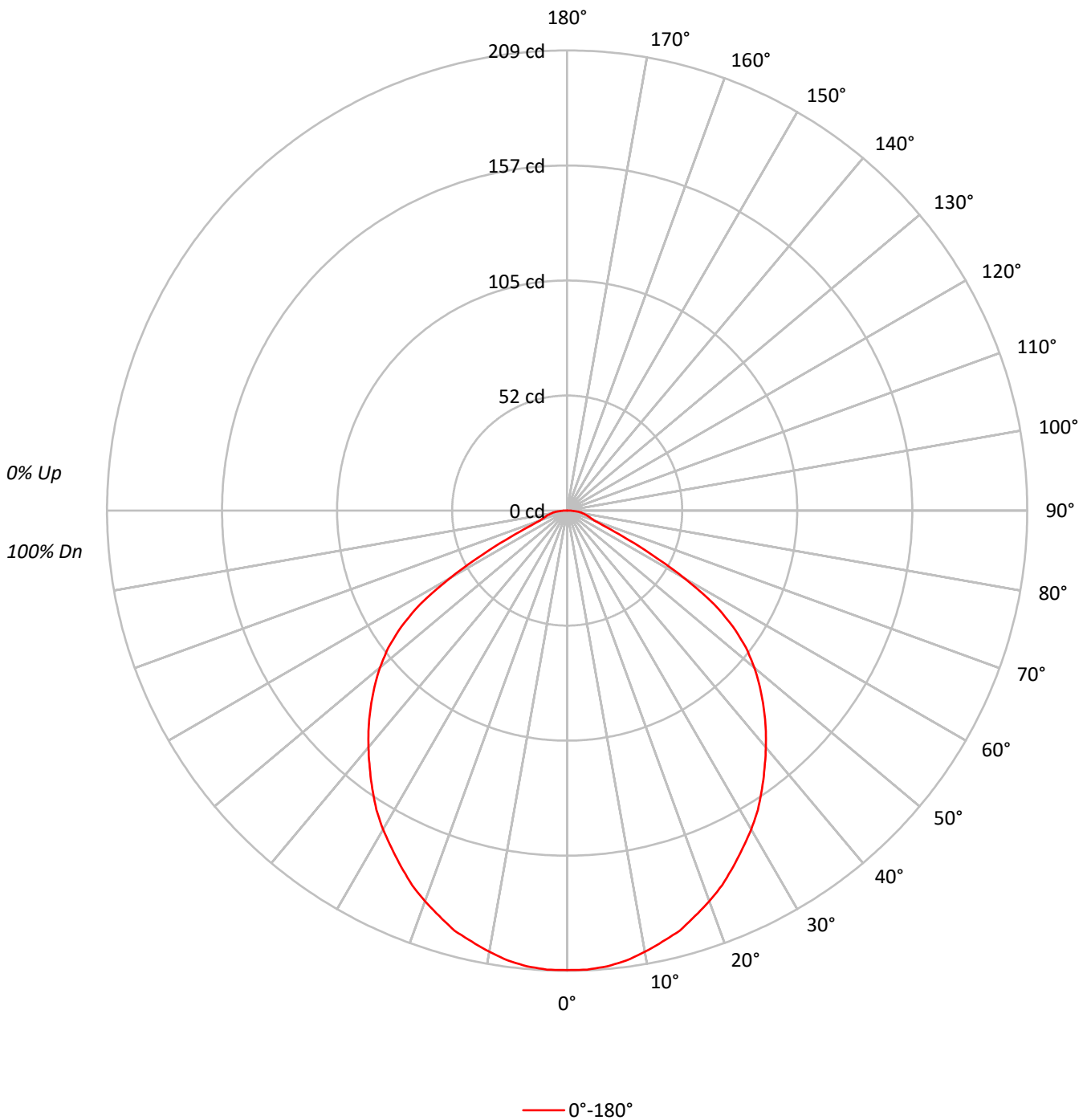
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 477.5 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.2  
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	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

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

	0°
0°	3404
5°	3402
10°	3370
15°	3335
20°	3277
25°	3211
30°	3149
35°	3072
40°	2989
45°	2911
50°	2817
55°	2616
60°	2016
65°	1069
70°	620
75°	624
80°	686
85°	805

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2911 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.7	4.1
10°-20°	55.6	11.6
20°-30°	82.2	17.2
30°-40°	96.5	20.2
40°-50°	97.3	20.4
50°-60°	80.3	16.8
60°-70°	31.0	6.5
70°-80°	10.5	2.2
80°-90°	4.4	0.9
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°	157.5	33.0
0°-40°	254.0	53.2
0°-60°	431.6	90.4
0°-90°	477.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	477.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	209	
5°	208	20
15°	198	56
25°	178	82
35°	154	97
45°	126	97
55°	92	80
65°	28	31
75°	10	11
85°	4	4
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	208.7
2.5°	208.7
5°	207.8
7.5°	206.1
10°	203.5
12.5°	200.5
15°	197.5
17.5°	193.1
20°	188.8
22.5°	184.1
25°	178.4
27.5°	172.8
30°	167.2
32.5°	161.2
35°	154.3
37.5°	147.3
40°	140.4
42.5°	133.5
45°	126.2
47.5°	118.8
50°	111.0
52.5°	102.4
55°	92.0
57.5°	79.1
60°	61.8
62.5°	43.2
65°	27.7
67.5°	17.7
70°	13.0
72.5°	11.2
75°	9.9
77.5°	8.6
80°	7.3
82.5°	6.0
85°	4.3
87.5°	2.2
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	15.31	16.82	15.68	17.14	17.45	15.31	16.82	15.68	17.14	17.45
	3H	15.45	16.80	15.83	17.13	17.49	15.45	16.80	15.83	17.13	17.49
	4H	15.51	16.77	15.91	17.12	17.50	15.51	16.77	15.91	17.12	17.50
	6H	15.59	16.75	16.01	17.12	17.51	15.59	16.75	16.01	17.12	17.51
	8H	15.64	16.74	16.06	17.13	17.53	15.64	16.74	16.06	17.13	17.53
	12H	15.68	16.73	16.11	17.11	17.54	15.68	16.73	16.11	17.11	17.54
4H	2H	15.35	16.61	15.75	16.96	17.34	15.35	16.61	15.75	16.96	17.34
	3H	15.57	16.60	15.98	17.00	17.40	15.57	16.60	15.98	17.00	17.40
	4H	15.68	16.60	16.12	17.02	17.46	15.68	16.60	16.12	17.02	17.46
	6H	15.85	16.65	16.31	17.09	17.55	15.85	16.65	16.31	17.09	17.55
	8H	15.93	16.68	16.40	17.12	17.59	15.93	16.68	16.40	17.12	17.59
	12H	16.02	16.69	16.50	17.16	17.64	16.02	16.69	16.50	17.16	17.64
8H	4H	15.68	16.42	16.14	16.87	17.34	15.68	16.42	16.14	16.87	17.34
	6H	15.91	16.53	16.41	17.02	17.50	15.91	16.53	16.41	17.02	17.50
	8H	16.05	16.60	16.56	17.11	17.60	16.05	16.60	16.56	17.11	17.60
	12H	16.21	16.70	16.72	17.20	17.76	16.21	16.70	16.72	17.20	17.76
12H	4H	15.66	16.33	16.15	16.81	17.28	15.66	16.33	16.15	16.81	17.28
	6H	15.90	16.46	16.42	16.97	17.46	15.90	16.46	16.42	16.97	17.46
	8H	16.09	16.59	16.60	17.08	17.65	16.09	16.59	16.60	17.08	17.65