

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: P865499

Luminaire Tested: PRLX-2001-S-935-05L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865499  
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-935-05L-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

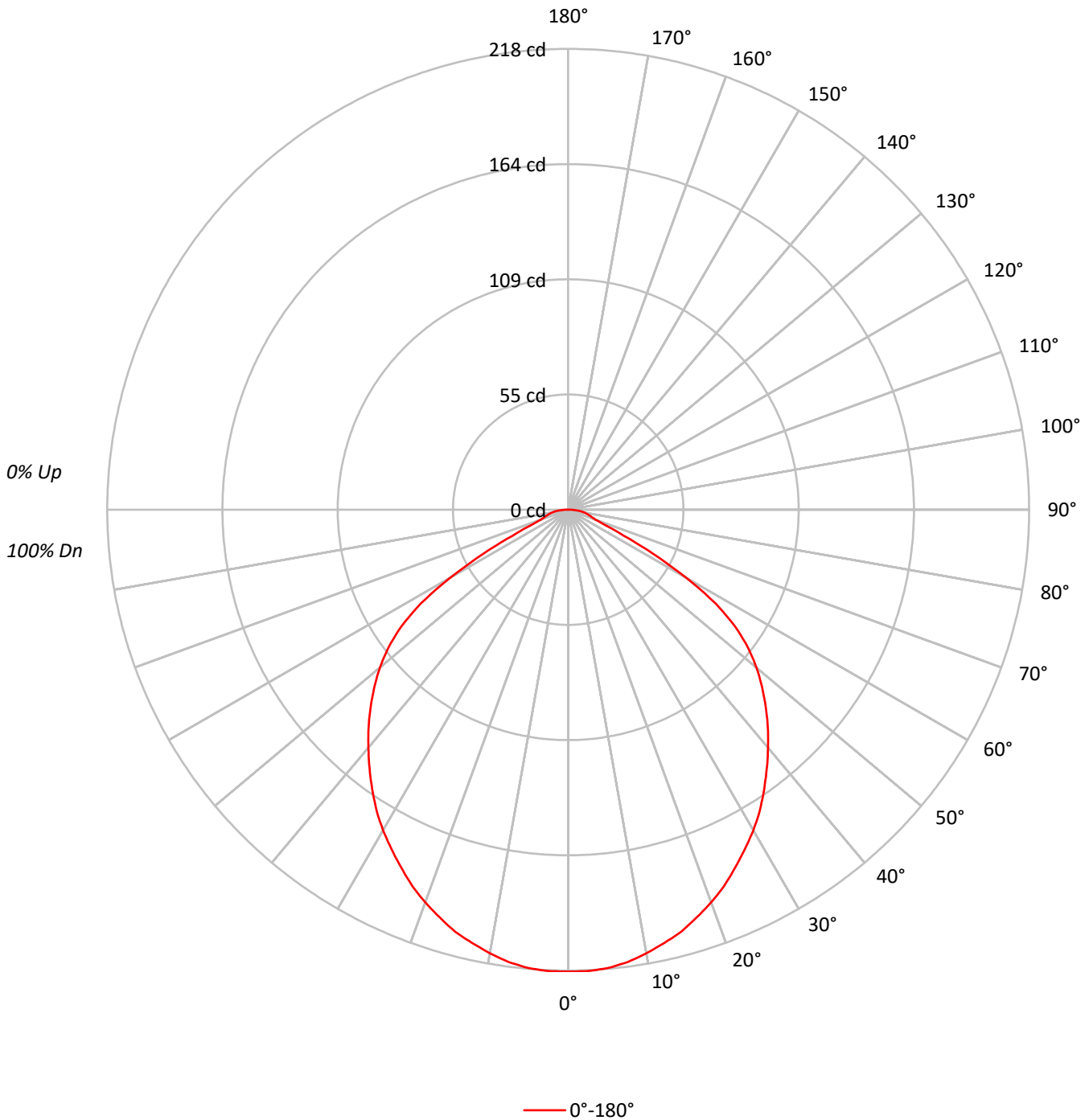
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 500.0 lumens  
Efficiency: N/A  
Efficacy: 80.6 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65				65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57				57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44				44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39				39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32				32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29				29

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

	0°
0°	3564
5°	3563
10°	3529
15°	3490
20°	3431
25°	3362
30°	3298
35°	3216
40°	3130
45°	3047
50°	2951
55°	2741
60°	2111
65°	1119
70°	649
75°	655
80°	723
85°	842

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3047 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.6	4.1
10°-20°	58.2	11.6
20°-30°	86.1	17.2
30°-40°	101.0	20.2
40°-50°	101.9	20.4
50°-60°	84.1	16.8
60°-70°	32.4	6.5
70°-80°	11.0	2.2
80°-90°	4.6	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°	164.9	33.0
0°-40°	266.0	53.2
0°-60°	452.0	90.4
0°-90°	500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	500.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	218	
5°	218	21
15°	207	58
25°	187	86
35°	162	101
45°	132	102
55°	96	84
65°	29	32
75°	10	11
85°	4	5
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	218.5
2.5°	218.5
5°	217.6
7.5°	215.8
10°	213.1
12.5°	209.9
15°	206.7
17.5°	202.2
20°	197.7
22.5°	192.7
25°	186.8
27.5°	181.0
30°	175.1
32.5°	168.7
35°	161.5
37.5°	154.3
40°	147.0
42.5°	139.8
45°	132.1
47.5°	124.4
50°	116.3
52.5°	107.2
55°	96.4
57.5°	82.8
60°	64.7
62.5°	45.2
65°	29.0
67.5°	18.5
70°	13.6
72.5°	11.8
75°	10.4
77.5°	9.0
80°	7.7
82.5°	6.3
85°	4.5
87.5°	2.3
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	15.47	16.98	15.84	17.30	17.61	15.47	16.98	15.84	17.30	17.61
	3H	15.61	16.96	15.99	17.28	17.65	15.61	16.96	15.99	17.28	17.65
	4H	15.67	16.93	16.07	17.28	17.66	15.67	16.93	16.07	17.28	17.66
	6H	15.75	16.91	16.17	17.28	17.67	15.75	16.91	16.17	17.28	17.67
	8H	15.80	16.90	16.22	17.29	17.69	15.80	16.90	16.22	17.29	17.69
	12H	15.84	16.89	16.27	17.27	17.70	15.84	16.89	16.27	17.27	17.70
4H	2H	15.51	16.76	15.91	17.11	17.49	15.51	16.76	15.91	17.11	17.49
	3H	15.73	16.76	16.14	17.16	17.56	15.73	16.76	16.14	17.16	17.56
	4H	15.84	16.76	16.27	17.18	17.62	15.84	16.76	16.27	17.18	17.62
	6H	16.01	16.81	16.47	17.25	17.71	16.01	16.81	16.47	17.25	17.71
	8H	16.09	16.84	16.56	17.28	17.75	16.09	16.84	16.56	17.28	17.75
	12H	16.18	16.85	16.66	17.33	17.80	16.18	16.85	16.66	17.33	17.80
8H	4H	15.84	16.58	16.30	17.03	17.50	15.84	16.58	16.30	17.03	17.50
	6H	16.07	16.69	16.57	17.18	17.66	16.07	16.69	16.57	17.18	17.66
	8H	16.21	16.77	16.72	17.28	17.77	16.21	16.77	16.72	17.28	17.77
	12H	16.37	16.87	16.88	17.36	17.92	16.37	16.87	16.88	17.36	17.92
12H	4H	15.82	16.49	16.31	16.97	17.44	15.82	16.49	16.31	16.97	17.44
	6H	16.07	16.62	16.58	17.14	17.62	16.07	16.62	16.58	17.14	17.62
	8H	16.25	16.75	16.76	17.24	17.81	16.25	16.75	16.76	17.24	17.81