

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: P866783

Luminaire Tested: PRLX-2001-L-930-83L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-76)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-930-83L-L-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

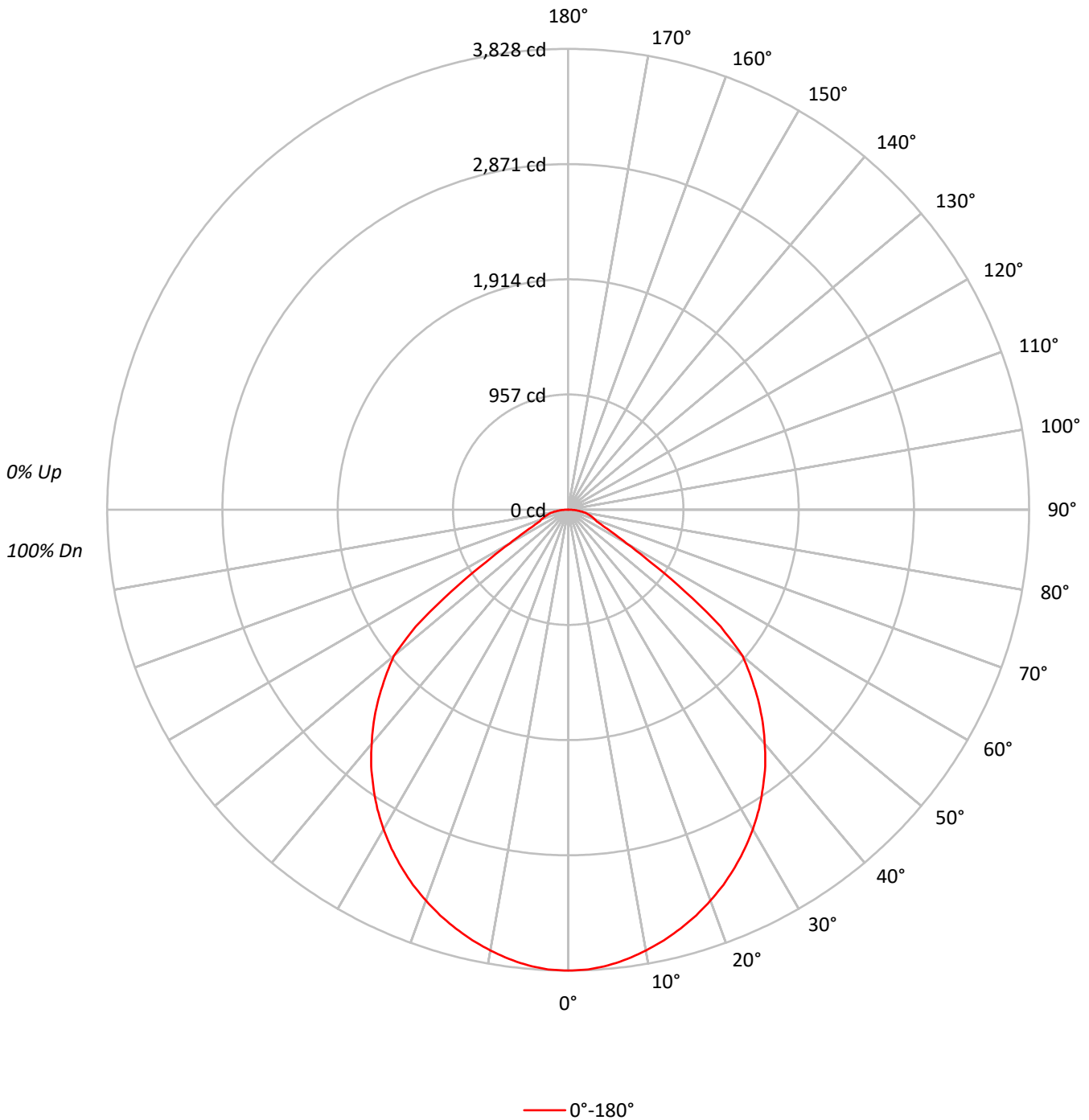
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8049.4 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 64.5  
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	111	107	103	100	108	105	101	99	101	98	96		97	95	93		93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62		71	66	62		69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49		59	53	49		58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	37	32	31

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

	0°
0°	20927
5°	20854
10°	20639
15°	20387
20°	20100
25°	19766
30°	19350
35°	18816
40°	18125
45°	17227
50°	16075
55°	11290
60°	6112
65°	4161
70°	3782
75°	4015
80°	4323
85°	4617

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17227 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.1	4.5
10°-20°	1015.8	12.6
20°-30°	1508.8	18.7
30°-40°	1761.6	21.9
40°-50°	1714.7	21.3
50°-60°	1066.9	13.3
60°-70°	344.0	4.3
70°-80°	199.5	2.5
80°-90°	78.0	1.0
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°	2884.6	35.8
0°-40°	4646.2	57.7
0°-60°	7427.9	92.3
0°-90°	8049.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8049.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3828	
5°	3800	360
15°	3602	1016
25°	3277	1509
35°	2819	1762
45°	2228	1715
55°	1184	1067
65°	322	344
75°	190	200
85°	74	78
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3828.0
2.5°	3823.7
5°	3800.1
7.5°	3764.4
10°	3717.9
12.5°	3665.0
15°	3602.1
17.5°	3533.5
20°	3454.9
22.5°	3371.9
25°	3276.9
27.5°	3175.3
30°	3065.3
32.5°	2948.7
35°	2819.4
37.5°	2687.1
40°	2539.8
42.5°	2390.4
45°	2228.2
47.5°	2058.8
50°	1890.1
52.5°	1595.5
55°	1184.5
57.5°	807.1
60°	559.0
62.5°	417.5
65°	321.7
67.5°	257.3
70°	236.6
72.5°	213.7
75°	190.1
77.5°	165.1
80°	137.3
82.5°	107.2
85°	73.6
87.5°	37.2
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	17.87	19.32	18.24	19.64	19.95	17.87	19.32	18.24	19.64	19.95
	3H	18.35	19.64	18.73	19.97	20.33	18.35	19.64	18.73	19.97	20.33
	4H	18.67	19.87	19.07	20.22	20.60	18.67	19.87	19.07	20.22	20.60
	6H	19.02	20.13	19.43	20.50	20.89	19.02	20.13	19.43	20.50	20.89
	8H	19.17	20.23	19.60	20.62	21.02	19.17	20.23	19.60	20.62	21.02
	12H	19.30	20.31	19.73	20.69	21.12	19.30	20.31	19.73	20.69	21.12
4H	2H	17.95	19.15	18.35	19.50	19.88	17.95	19.15	18.35	19.50	19.88
	3H	18.65	19.63	19.06	20.03	20.43	18.65	19.63	19.06	20.03	20.43
	4H	19.12	19.99	19.55	20.41	20.85	19.12	19.99	19.55	20.41	20.85
	6H	19.64	20.40	20.10	20.85	21.31	19.64	20.40	20.10	20.85	21.31
	8H	19.87	20.58	20.34	21.03	21.50	19.87	20.58	20.34	21.03	21.50
	12H	20.07	20.71	20.55	21.19	21.66	20.07	20.71	20.55	21.19	21.66
8H	4H	19.28	19.99	19.75	20.44	20.91	19.28	19.99	19.75	20.44	20.91
	6H	19.95	20.54	20.45	21.04	21.51	19.95	20.54	20.45	21.04	21.51
	8H	20.27	20.81	20.79	21.32	21.81	20.27	20.81	20.79	21.32	21.81
	12H	20.58	21.06	21.09	21.55	22.12	20.58	21.06	21.09	21.55	22.12
12H	4H	19.30	19.93	19.78	20.41	20.89	19.30	19.93	19.78	20.41	20.89
	6H	20.00	20.54	20.52	21.05	21.54	20.00	20.54	20.52	21.05	21.54
	8H	20.39	20.87	20.90	21.36	21.93	20.39	20.87	20.90	21.36	21.93