

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: P866879

Luminaire Tested: PRLX-2001-L-940-15L-L-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866879  
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: Pentalux  
Catalog Number: PRLX-2001-L-940-15L-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 1  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

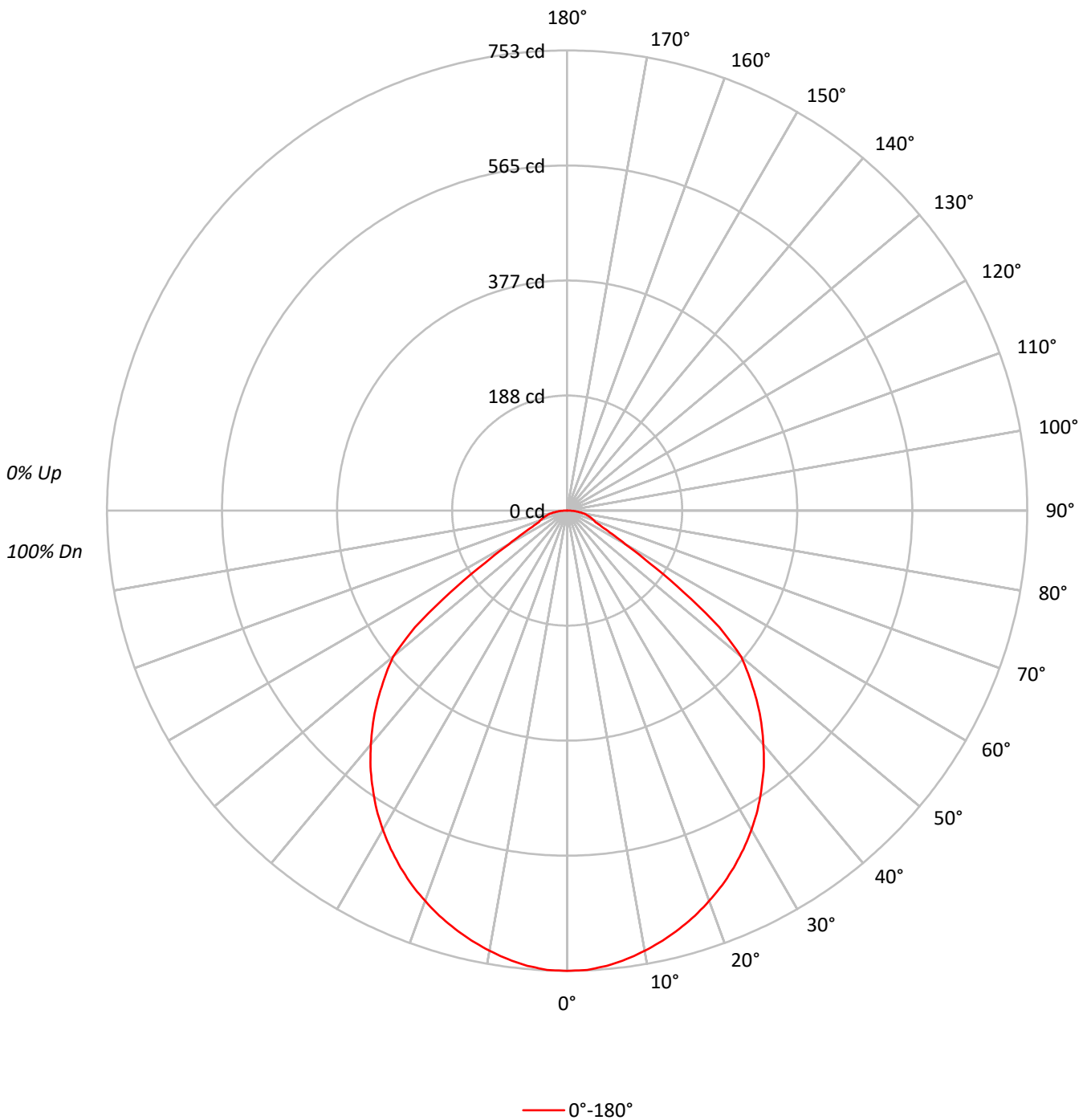
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1583.7 lumens  
Efficiency: N/A  
Efficacy: 96.6 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): 16.4  
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°	4118
5°	4103
10°	4061
15°	4011
20°	3954
25°	3889
30°	3807
35°	3702
40°	3566
45°	3389
50°	3163
55°	2221
60°	1203
65°	819
70°	745
75°	790
80°	850
85°	910

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3389 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.9	4.5
10°-20°	199.8	12.6
20°-30°	296.8	18.7
30°-40°	346.6	21.9
40°-50°	337.4	21.3
50°-60°	209.9	13.3
60°-70°	67.7	4.3
70°-80°	39.3	2.5
80°-90°	15.3	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°	567.5	35.8
0°-40°	914.1	57.7
0°-60°	1461.4	92.3
0°-90°	1583.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1583.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	753	
5°	748	71
15°	709	200
25°	645	297
35°	555	347
45°	438	337
55°	233	210
65°	63	68
75°	37	39
85°	14	15
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	753.2
2.5°	752.3
5°	747.7
7.5°	740.6
10°	731.5
12.5°	721.1
15°	708.7
17.5°	695.2
20°	679.7
22.5°	663.4
25°	644.7
27.5°	624.7
30°	603.1
32.5°	580.2
35°	554.7
37.5°	528.7
40°	499.7
42.5°	470.3
45°	438.4
47.5°	405.1
50°	371.9
52.5°	313.9
55°	233.0
57.5°	158.8
60°	110.0
62.5°	82.1
65°	63.3
67.5°	50.6
70°	46.6
72.5°	42.1
75°	37.4
77.5°	32.5
80°	27.0
82.5°	21.1
85°	14.5
87.5°	7.3
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	12.22	13.67	12.59	13.99	14.30	12.22	13.67	12.59	13.99	14.30
	3H	12.70	13.99	13.08	14.32	14.68	12.70	13.99	13.08	14.32	14.68
	4H	13.02	14.22	13.42	14.57	14.95	13.02	14.22	13.42	14.57	14.95
	6H	13.37	14.48	13.79	14.85	15.24	13.37	14.48	13.79	14.85	15.24
	8H	13.53	14.58	13.95	14.97	15.37	13.53	14.58	13.95	14.97	15.37
	12H	13.65	14.66	14.08	15.04	15.47	13.65	14.66	14.08	15.04	15.47
4H	2H	12.30	13.50	12.70	13.85	14.23	12.30	13.50	12.70	13.85	14.23
	3H	13.00	13.98	13.41	14.38	14.78	13.00	13.98	13.41	14.38	14.78
	4H	13.47	14.35	13.90	14.76	15.21	13.47	14.35	13.90	14.76	15.21
	6H	13.99	14.76	14.45	15.20	15.66	13.99	14.76	14.45	15.20	15.66
	8H	14.22	14.94	14.69	15.38	15.85	14.22	14.94	14.69	15.38	15.85
	12H	14.42	15.06	14.91	15.54	16.01	14.42	15.06	14.91	15.54	16.01
8H	4H	13.63	14.35	14.10	14.79	15.26	13.63	14.35	14.10	14.79	15.26
	6H	14.30	14.89	14.80	15.39	15.87	14.30	14.89	14.80	15.39	15.87
	8H	14.63	15.16	15.14	15.68	16.16	14.63	15.16	15.14	15.68	16.16
	12H	14.93	15.41	15.44	15.91	16.47	14.93	15.41	15.44	15.91	16.47
12H	4H	13.65	14.29	14.13	14.77	15.24	13.65	14.29	14.13	14.77	15.24
	6H	14.35	14.89	14.87	15.40	15.89	14.35	14.89	14.87	15.40	15.89
	8H	14.74	15.22	15.25	15.72	16.28	14.74	15.22	15.25	15.72	16.28