

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: P865550

Luminaire Tested: PRLX-2001-S-940-15L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-940-15L-G-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

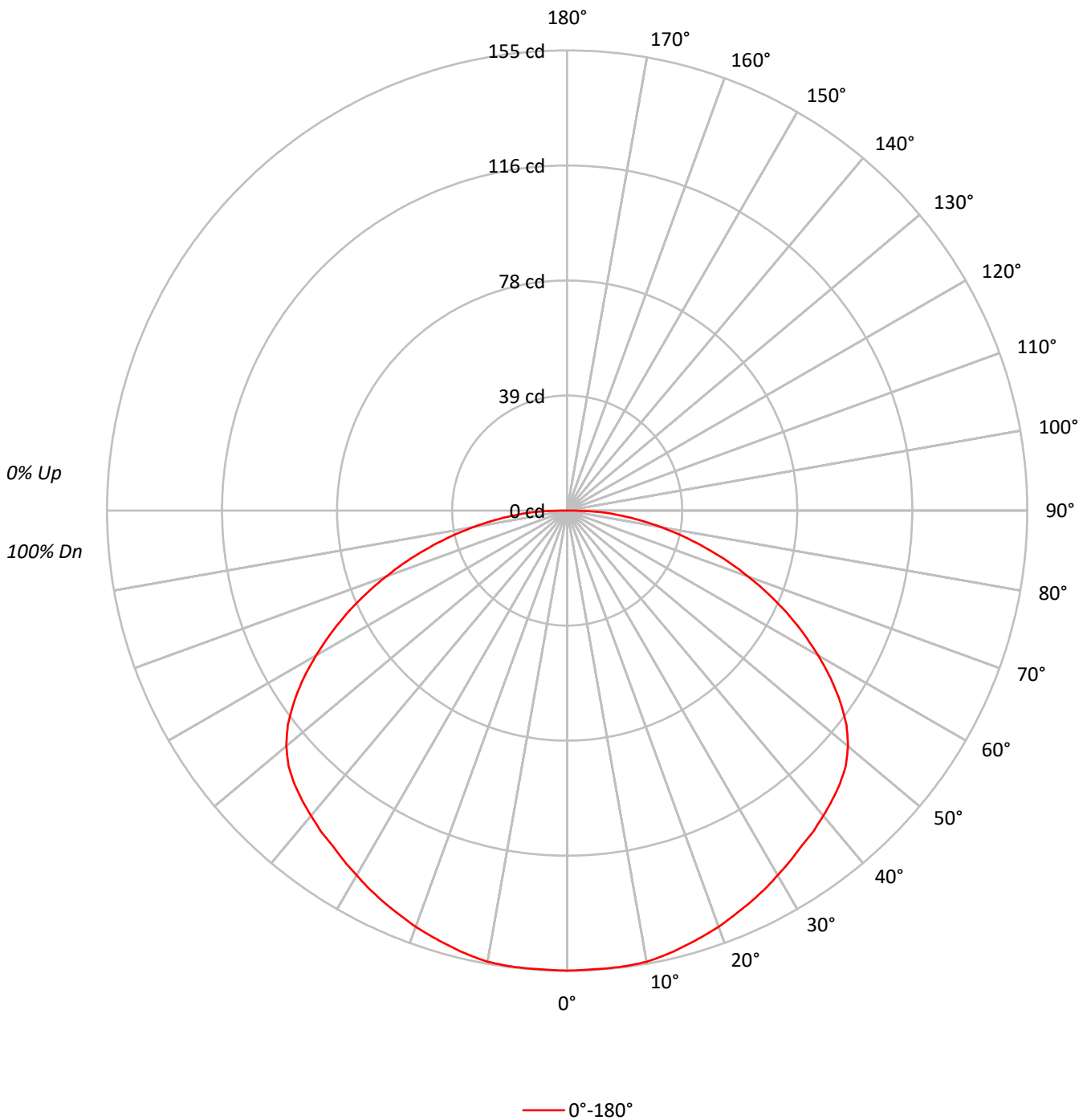
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 562.5 lumens  
Efficiency: N/A  
Efficacy: 36.1 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.6  
Input Voltage (V): 120  
Input Current (Ain): 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	107	102	97	93	105	100	95	91	95	92	88		91	88	86		88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68	66
3	88	76	67	60	85	75	66	60	71	64	59		69	63	58		66	61	56	54
4	80	67	57	50	77	65	57	50	63	55	49		60	54	48		58	52	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36		48	41	36		47	40	35	33
7	62	48	39	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	58	43	34	28	56	43	34	28	41	34	28		40	33	28		39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	21

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

	0°
0°	2528
5°	2534
10°	2555
15°	2567
20°	2590
25°	2622
30°	2671
35°	2744
40°	2857
45°	2999
50°	3134
55°	3193
60°	3187
65°	3157
70°	3090
75°	3031
80°	3015
85°	3275

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 4263 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.8	2.6
10°-20°	43.0	7.6
20°-30°	67.3	12.0
30°-40°	86.6	15.4
40°-50°	100.2	17.8
50°-60°	100.0	17.8
60°-70°	80.8	14.4
70°-80°	51.0	9.1
80°-90°	18.9	3.4
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°	125.1	22.2
0°-40°	211.6	37.6
0°-60°	411.9	73.2
0°-90°	562.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	562.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	155	
5°	155	15
15°	152	43
25°	146	67
35°	138	87
45°	130	100
55°	112	100
65°	82	81
75°	48	51
85°	18	19
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	155.0
2.5°	154.8
5°	154.8
7.5°	154.7
10°	154.3
12.5°	153.3
15°	152.0
17.5°	150.6
20°	149.2
22.5°	147.4
25°	145.7
27.5°	143.9
30°	141.8
32.5°	139.9
35°	137.8
37.5°	136.2
40°	134.2
42.5°	132.2
45°	130.0
47.5°	127.3
50°	123.5
52.5°	118.6
55°	112.3
57.5°	105.3
60°	97.7
62.5°	89.8
65°	81.8
67.5°	73.4
70°	64.8
72.5°	56.6
75°	48.1
77.5°	40.0
80°	32.1
82.5°	24.6
85°	17.5
87.5°	11.4
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	16.52	18.26	16.89	18.57	18.88	16.52	18.26	16.89	18.57	18.88
	3H	18.54	20.12	18.91	20.44	20.80	18.54	20.12	18.91	20.44	20.80
	4H	19.35	20.84	19.74	21.19	21.56	19.35	20.84	19.74	21.19	21.56
	6H	20.02	21.41	20.43	21.78	22.17	20.02	21.41	20.43	21.78	22.17
	8H	20.29	21.62	20.71	22.01	22.40	20.29	21.62	20.71	22.01	22.40
	12H	20.51	21.79	20.94	22.17	22.60	20.51	21.79	20.94	22.17	22.60
4H	2H	17.23	18.72	17.62	19.07	19.44	17.23	18.72	17.62	19.07	19.44
	3H	19.47	20.74	19.88	21.13	21.53	19.47	20.74	19.88	21.13	21.53
	4H	20.43	21.58	20.86	21.99	22.42	20.43	21.58	20.86	21.99	22.42
	6H	21.25	22.27	21.70	22.70	23.16	21.25	22.27	21.70	22.70	23.16
	8H	21.58	22.54	22.04	22.98	23.44	21.58	22.54	22.04	22.98	23.44
	12H	21.88	22.74	22.36	23.22	23.68	21.88	22.74	22.36	23.22	23.68
8H	4H	20.82	21.77	21.28	22.21	22.68	20.82	21.77	21.28	22.21	22.68
	6H	21.81	22.61	22.30	23.09	23.56	21.81	22.61	22.30	23.09	23.56
	8H	22.24	22.96	22.75	23.46	23.95	22.24	22.96	22.75	23.46	23.95
	12H	22.66	23.30	23.16	23.79	24.34	22.66	23.30	23.16	23.79	24.34
12H	4H	20.89	21.75	21.36	22.22	22.69	20.89	21.75	21.36	22.22	22.69
	6H	21.91	22.63	22.41	23.13	23.61	21.91	22.63	22.41	23.13	23.61
	8H	22.42	23.06	22.92	23.55	24.10	22.42	23.06	22.92	23.55	24.10