

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: P866125

Luminaire Tested: PRLX-2001-M-940-55L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866125  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-940-55L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

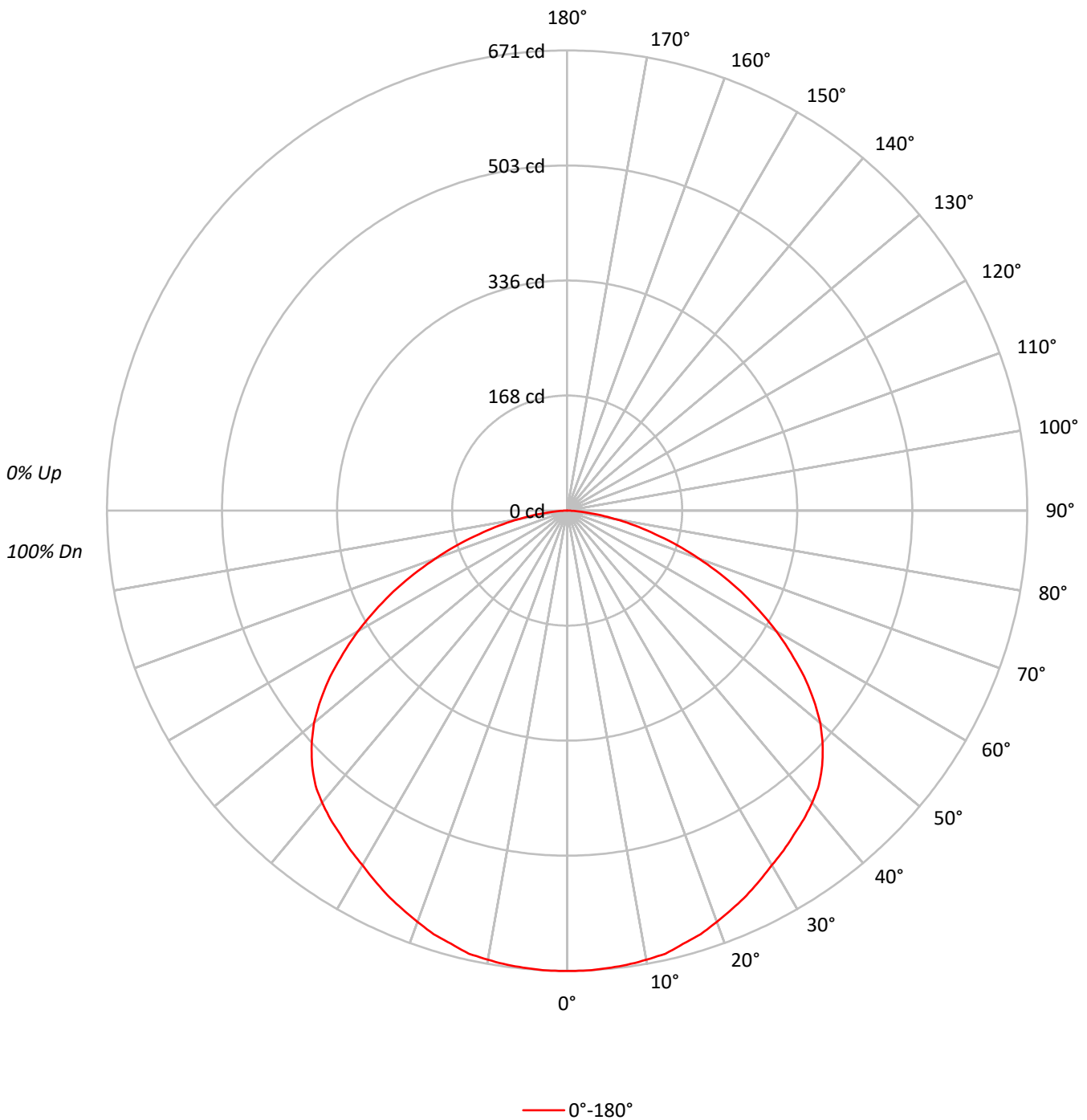
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2124.0 lumens  
Efficiency: N/A  
Efficacy: 44.0 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48.3  
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	109	104	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	59	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		50	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

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

	0°
0°	5697
5°	5706
10°	5730
15°	5746
20°	5763
25°	5798
30°	5851
35°	5973
40°	6159
45°	6313
50°	6361
55°	6240
60°	5979
65°	5614
70°	5057
75°	4351
80°	3475
85°	2152

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 6361 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.8	3.0
10°-20°	184.9	8.7
20°-30°	285.7	13.5
30°-40°	361.9	17.0
40°-50°	404.6	19.0
50°-60°	375.5	17.7
60°-70°	275.8	13.0
70°-80°	142.4	6.7
80°-90°	29.4	1.4
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°	534.4	25.2
0°-40°	896.4	42.2
0°-60°	1676.5	78.9
0°-90°	2124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2124.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	671	
5°	670	64
15°	654	185
25°	619	286
35°	577	362
45°	526	405
55°	422	375
65°	280	276
75°	133	142
85°	22	29
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	671.3
2.5°	671.3
5°	669.8
7.5°	668.2
10°	665.0
12.5°	661.9
15°	654.0
17.5°	647.6
20°	638.2
22.5°	628.7
25°	619.2
27.5°	608.2
30°	597.1
32.5°	587.6
35°	576.6
37.5°	567.1
40°	556.0
42.5°	543.4
45°	526.0
47.5°	505.5
50°	481.8
52.5°	453.3
55°	421.8
57.5°	387.0
60°	352.3
62.5°	315.9
65°	279.6
67.5°	241.7
70°	203.8
72.5°	169.0
75°	132.7
77.5°	101.1
80°	71.1
82.5°	44.2
85°	22.1
87.5°	6.3
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	18.76	20.43	19.12	20.74	21.05	18.76	20.43	19.12	20.74	21.05
	3H	20.40	21.91	20.77	22.23	22.59	20.40	21.91	20.77	22.23	22.59
	4H	20.94	22.36	21.34	22.71	23.09	20.94	22.36	21.34	22.71	23.09
	6H	21.29	22.60	21.70	22.97	23.36	21.29	22.60	21.70	22.97	23.36
	8H	21.37	22.63	21.79	23.01	23.41	21.37	22.63	21.79	23.01	23.41
	12H	21.40	22.61	21.83	22.99	23.42	21.40	22.61	21.83	22.99	23.42
4H	2H	19.37	20.79	19.76	21.13	21.51	19.37	20.79	19.76	21.13	21.51
	3H	21.21	22.39	21.62	22.79	23.19	21.21	22.39	21.62	22.79	23.19
	4H	21.86	22.93	22.29	23.35	23.78	21.86	22.93	22.29	23.35	23.78
	6H	22.31	23.24	22.76	23.68	24.14	22.31	23.24	22.76	23.68	24.14
	8H	22.42	23.29	22.88	23.74	24.20	22.42	23.29	22.88	23.74	24.20
	12H	22.48	23.26	22.96	23.74	24.21	22.48	23.26	22.96	23.74	24.21
8H	4H	22.11	22.99	22.57	23.43	23.89	22.11	22.99	22.57	23.43	23.89
	6H	22.64	23.37	23.14	23.86	24.33	22.64	23.37	23.14	23.86	24.33
	8H	22.80	23.45	23.31	23.96	24.44	22.80	23.45	23.31	23.96	24.44
	12H	22.89	23.47	23.40	23.96	24.52	22.89	23.47	23.40	23.96	24.52
12H	4H	22.13	22.92	22.61	23.39	23.86	22.13	22.92	22.61	23.39	23.86
	6H	22.67	23.32	23.18	23.83	24.31	22.67	23.32	23.18	23.83	24.31
	8H	22.87	23.44	23.37	23.93	24.49	22.87	23.44	23.37	23.93	24.49