

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: P866128

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-940-55L-L-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

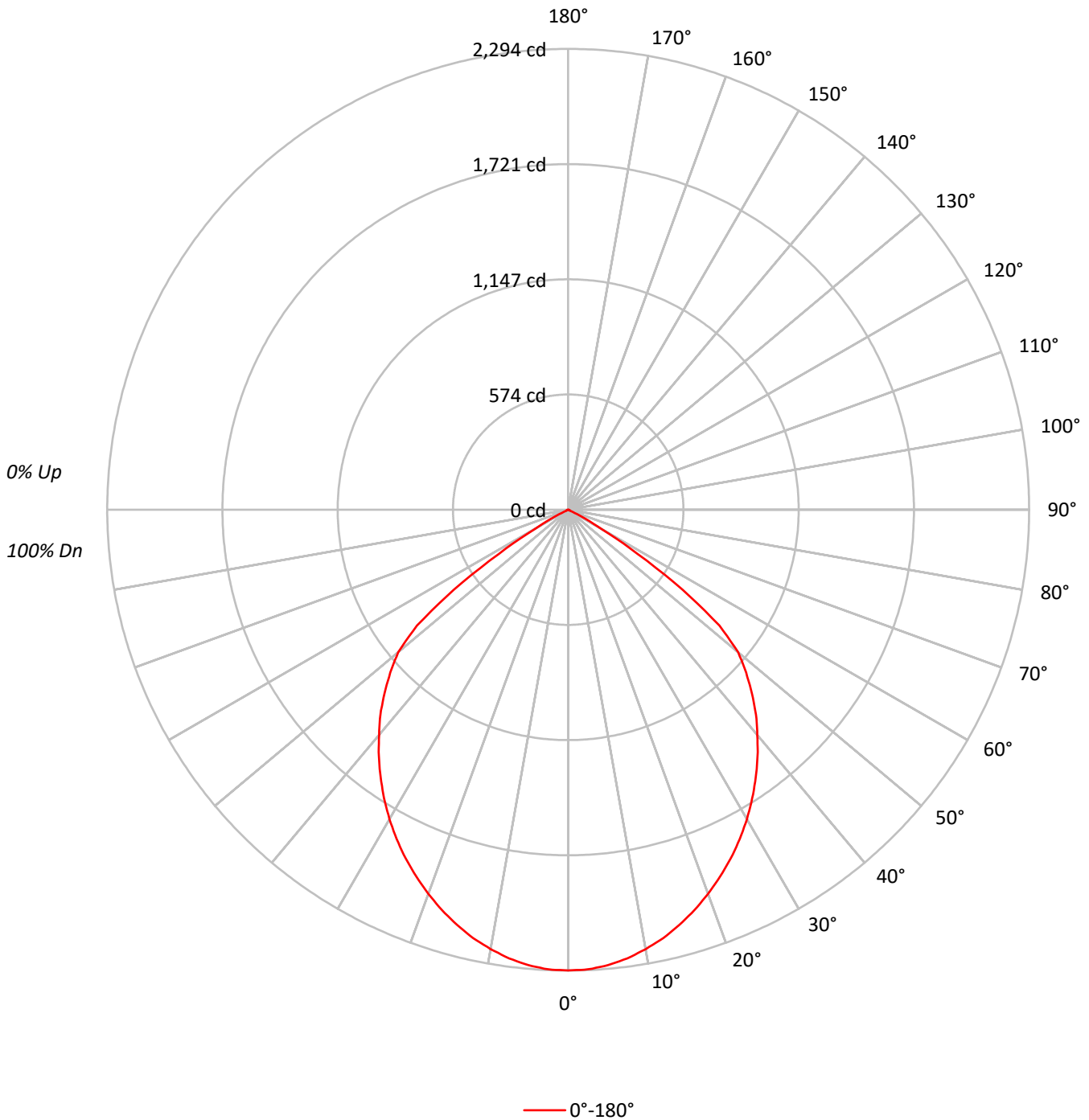
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4362.9 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
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: 0.5 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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	86	90	86	84	87	84	82	80
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

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

	0°
0°	19464
5°	19390
10°	19137
15°	18790
20°	18373
25°	17926
30°	17428
35°	16855
40°	16221
45°	15507
50°	14576
55°	10282
60°	3243
65°	223
70°	156
75°	154
80°	156
85°	156

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15507 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.5	4.9
10°-20°	602.6	13.8
20°-30°	881.2	20.2
30°-40°	1017.1	23.3
40°-50°	995.3	22.8
50°-60°	597.1	13.7
60°-70°	46.5	1.1
70°-80°	5.4	0.1
80°-90°	2.2	0.0
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°	1699.3	38.9
0°-40°	2716.4	62.3
0°-60°	4308.8	98.8
0°-90°	4362.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4362.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2294	
5°	2276	215
15°	2139	603
25°	1914	881
35°	1627	1017
45°	1292	995
55°	695	597
65°	11	47
75°	5	5
85°	2	2
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2293.6
2.5°	2290.4
5°	2276.2
7.5°	2252.5
10°	2220.9
12.5°	2184.6
15°	2138.8
17.5°	2089.8
20°	2034.5
22.5°	1976.1
25°	1914.5
27.5°	1848.1
30°	1778.6
32.5°	1704.4
35°	1627.0
37.5°	1548.0
40°	1464.3
42.5°	1383.7
45°	1292.1
47.5°	1200.5
50°	1104.1
52.5°	947.8
55°	695.0
57.5°	409.1
60°	191.1
62.5°	75.8
65°	11.1
67.5°	6.3
70°	6.3
72.5°	6.3
75°	4.7
77.5°	4.7
80°	3.2
82.5°	3.2
85°	1.6
87.5°	1.6
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	16.78	18.15	17.14	18.47	18.78	16.78	18.15	17.14	18.47	18.78
	3H	16.66	17.86	17.04	18.19	18.56	16.66	17.86	17.04	18.19	18.56
	4H	16.59	17.71	16.99	18.06	18.44	16.59	17.71	16.99	18.06	18.44
	6H	16.52	17.54	16.93	17.91	18.30	16.52	17.54	16.93	17.91	18.30
	8H	16.47	17.44	16.90	17.83	18.24	16.47	17.44	16.90	17.83	18.24
	12H	16.43	17.36	16.87	17.74	18.17	16.43	17.36	16.87	17.74	18.17
4H	2H	16.59	17.71	16.99	18.06	18.44	16.59	17.71	16.99	18.06	18.44
	3H	16.47	17.37	16.88	17.77	18.17	16.47	17.37	16.88	17.77	18.17
	4H	16.39	17.18	16.82	17.60	18.04	16.39	17.18	16.82	17.60	18.04
	6H	16.31	16.99	16.77	17.44	17.90	16.31	16.99	16.77	17.44	17.90
	8H	16.25	16.89	16.72	17.34	17.81	16.25	16.89	16.72	17.34	17.81
	12H	16.20	16.77	16.69	17.25	17.73	16.20	16.77	16.69	17.25	17.73
8H	4H	16.25	16.89	16.72	17.33	17.81	16.25	16.89	16.72	17.33	17.81
	6H	16.14	16.67	16.65	17.17	17.65	16.14	16.67	16.65	17.17	17.65
	8H	16.08	16.56	16.60	17.07	17.56	16.08	16.56	16.60	17.07	17.56
	12H	16.03	16.46	16.54	16.95	17.52	16.03	16.46	16.54	16.95	17.52
12H	4H	16.20	16.77	16.69	17.25	17.72	16.20	16.77	16.69	17.25	17.72
	6H	16.07	16.56	16.60	17.07	17.56	16.07	16.56	16.60	17.07	17.56
	8H	16.02	16.46	16.54	16.95	17.52	16.02	16.46	16.54	16.95	17.52