

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: P866146

Luminaire Tested: PRLX-2001-M-940-75L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-940-75L-L-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

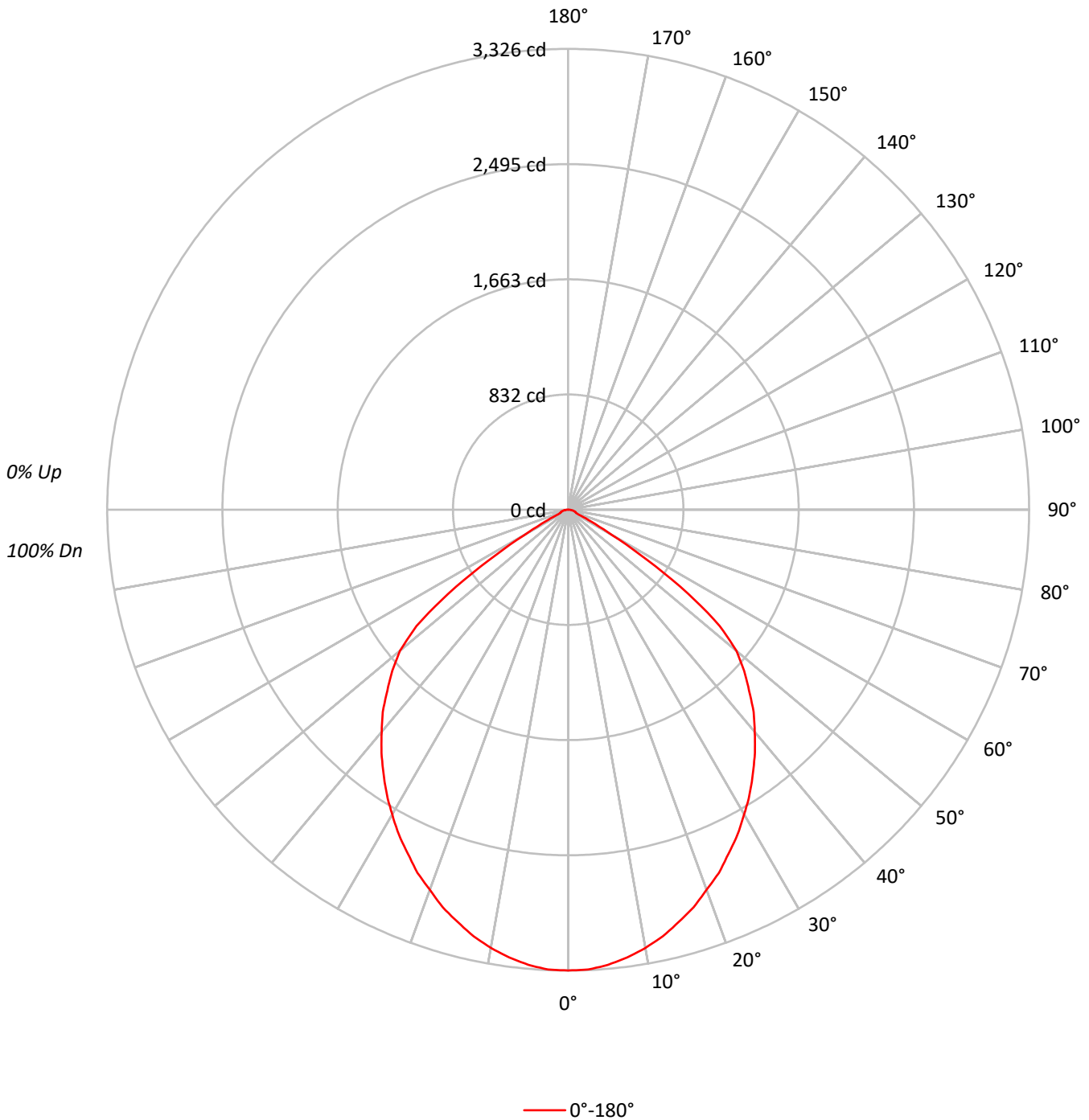
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6425.1 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 69.7  
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	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

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

	0°
0°	28223
5°	28092
10°	27674
15°	27062
20°	26358
25°	25635
30°	24885
35°	24078
40°	23193
45°	22154
50°	20901
55°	15647
60°	6178
65°	1687
70°	1444
75°	1554
80°	1686
85°	1675

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22154 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.0	4.9
10°-20°	868.0	13.5
20°-30°	1262.0	19.6
30°-40°	1453.4	22.6
40°-50°	1424.4	22.2
50°-60°	904.9	14.1
60°-70°	131.8	2.1
70°-80°	49.8	0.8
80°-90°	18.7	0.3
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°	2442.0	38.0
0°-40°	3895.5	60.6
0°-60°	6224.8	96.9
0°-90°	6425.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6425.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3326	
5°	3298	312
15°	3080	868
25°	2738	1262
35°	2324	1453
45°	1846	1424
55°	1058	905
65°	84	132
75°	47	50
85°	17	19
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3325.8
2.5°	3321.5
5°	3297.8
7.5°	3259.0
10°	3211.6
12.5°	3153.5
15°	3080.3
17.5°	3009.2
20°	2918.7
22.5°	2839.0
25°	2737.8
27.5°	2645.1
30°	2539.6
32.5°	2436.2
35°	2324.2
37.5°	2212.2
40°	2093.7
42.5°	1979.5
45°	1846.0
47.5°	1721.1
50°	1583.2
52.5°	1378.6
55°	1057.6
57.5°	674.2
60°	364.0
62.5°	183.1
65°	84.0
67.5°	60.3
70°	58.2
72.5°	53.9
75°	47.4
77.5°	40.9
80°	34.5
82.5°	25.8
85°	17.2
87.5°	8.6
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	18.91	20.31	19.28	20.63	20.94	18.91	20.31	19.28	20.63	20.94
	3H	18.84	20.08	19.22	20.41	20.77	18.84	20.08	19.22	20.41	20.77
	4H	18.82	19.96	19.22	20.31	20.70	18.82	19.96	19.22	20.31	20.70
	6H	18.80	19.85	19.21	20.22	20.61	18.80	19.85	19.21	20.22	20.61
	8H	18.78	19.78	19.21	20.17	20.57	18.78	19.78	19.21	20.17	20.57
	12H	18.76	19.71	19.19	20.10	20.53	18.76	19.71	19.19	20.10	20.53
4H	2H	18.75	19.90	19.15	20.25	20.63	18.75	19.90	19.15	20.25	20.63
	3H	18.72	19.64	19.13	20.04	20.44	18.72	19.64	19.13	20.04	20.44
	4H	18.70	19.52	19.14	19.94	20.38	18.70	19.52	19.14	19.94	20.38
	6H	18.71	19.42	19.18	19.87	20.33	18.71	19.42	19.18	19.87	20.33
	8H	18.70	19.37	19.17	19.81	20.28	18.70	19.37	19.17	19.81	20.28
	12H	18.69	19.28	19.18	19.77	20.24	18.69	19.28	19.18	19.77	20.24
8H	4H	18.61	19.27	19.08	19.72	20.19	18.61	19.27	19.08	19.72	20.19
	6H	18.63	19.18	19.13	19.67	20.15	18.63	19.18	19.13	19.67	20.15
	8H	18.63	19.13	19.15	19.64	20.13	18.63	19.13	19.15	19.64	20.13
	12H	18.65	19.09	19.16	19.59	20.16	18.65	19.09	19.16	19.59	20.16
12H	4H	18.57	19.16	19.06	19.64	20.12	18.57	19.16	19.06	19.64	20.12
	6H	18.58	19.08	19.10	19.59	20.09	18.58	19.08	19.10	19.59	20.09
	8H	18.61	19.06	19.12	19.55	20.12	18.61	19.06	19.12	19.55	20.12