

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: P866140

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

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-940-75L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

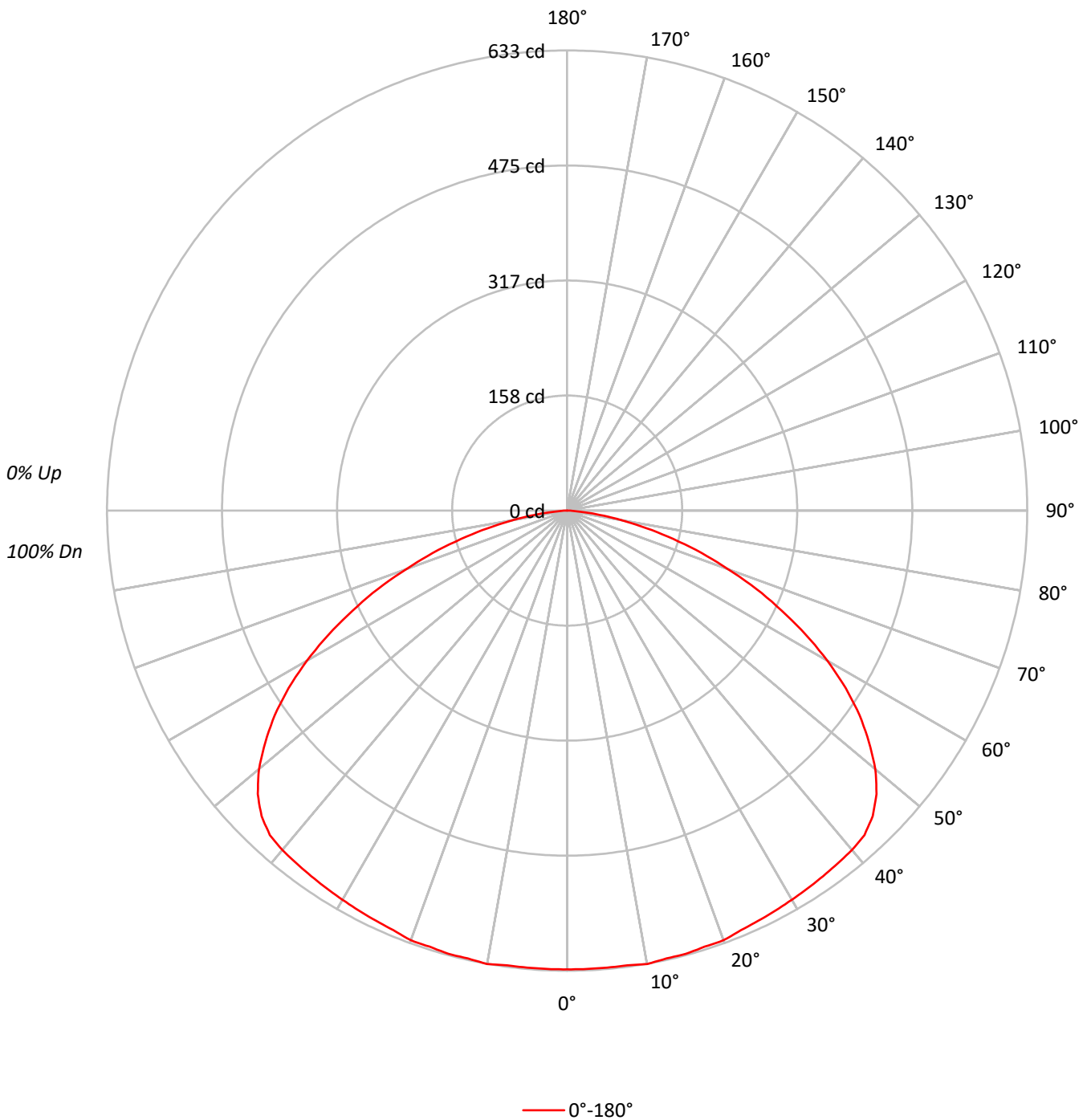
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2317.7 lumens  
Efficiency: N/A  
Efficacy: 33.3 lumens/watt  
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63  
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	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	76	69	62	73	67	61		71	65	60		68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44		55	49	43		54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29		41	34	29		40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

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

	0°
0°	5356
5°	5376
10°	5457
15°	5544
20°	5680
25°	5829
30°	6058
35°	6360
40°	6753
45°	7135
50°	7309
55°	7266
60°	7020
65°	6532
70°	5826
75°	4944
80°	3685
85°	1889

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 7309 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.3	2.6
10°-20°	178.7	7.7
20°-30°	288.1	12.4
30°-40°	385.5	16.6
40°-50°	456.1	19.7
50°-60°	436.8	18.8
60°-70°	322.0	13.9
70°-80°	161.2	7.0
80°-90°	29.0	1.2
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°	527.1	22.7
0°-40°	912.7	39.4
0°-60°	1805.5	77.9
0°-90°	2317.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2317.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	631	
5°	631	60
15°	631	179
25°	622	288
35°	614	386
45°	594	456
55°	491	437
65°	325	322
75°	151	161
85°	19	29
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	631.1
2.5°	631.1
5°	631.1
7.5°	631.1
10°	633.3
12.5°	631.1
15°	631.1
17.5°	629.0
20°	629.0
22.5°	624.7
25°	622.5
27.5°	620.4
30°	618.2
32.5°	616.1
35°	613.9
37.5°	611.7
40°	609.6
42.5°	605.3
45°	594.5
47.5°	577.3
50°	553.6
52.5°	523.4
55°	491.1
57.5°	454.5
60°	413.6
62.5°	370.5
65°	325.3
67.5°	282.2
70°	234.8
72.5°	193.9
75°	150.8
77.5°	112.0
80°	75.4
82.5°	45.2
85°	19.4
87.5°	4.3
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	19.53	21.23	19.89	21.54	21.86	19.53	21.23	19.89	21.54	21.86
	3H	21.14	22.68	21.52	23.01	23.37	21.14	22.68	21.52	23.01	23.37
	4H	21.66	23.11	22.06	23.46	23.83	21.66	23.11	22.06	23.46	23.83
	6H	21.97	23.31	22.38	23.67	24.06	21.97	23.31	22.38	23.67	24.06
	8H	22.03	23.31	22.45	23.70	24.10	22.03	23.31	22.45	23.70	24.10
	12H	22.04	23.27	22.47	23.66	24.08	22.04	23.27	22.47	23.66	24.08
4H	2H	20.13	21.58	20.53	21.93	22.30	20.13	21.58	20.53	21.93	22.30
	3H	21.94	23.16	22.35	23.55	23.95	21.94	23.16	22.35	23.55	23.95
	4H	22.57	23.66	23.00	24.08	24.51	22.57	23.66	23.00	24.08	24.51
	6H	22.96	23.92	23.41	24.36	24.81	22.96	23.92	23.41	24.36	24.81
	8H	23.05	23.94	23.51	24.38	24.85	23.05	23.94	23.51	24.38	24.85
	12H	23.08	23.89	23.56	24.36	24.83	23.08	23.89	23.56	24.36	24.83
8H	4H	22.81	23.70	23.26	24.14	24.61	22.81	23.70	23.26	24.14	24.61
	6H	23.27	24.02	23.76	24.50	24.98	23.27	24.02	23.76	24.50	24.98
	8H	23.39	24.06	23.90	24.56	25.05	23.39	24.06	23.90	24.56	25.05
	12H	23.46	24.04	23.96	24.53	25.09	23.46	24.04	23.96	24.53	25.09
12H	4H	22.82	23.63	23.30	24.10	24.57	22.82	23.63	23.30	24.10	24.57
	6H	23.29	23.96	23.80	24.46	24.95	23.29	23.96	23.80	24.46	24.95
	8H	23.45	24.04	23.95	24.52	25.08	23.45	24.04	23.95	24.52	25.08