

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: P866658

Luminaire Tested: PRLX-2004-M-940-75L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-56)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-M-940-75L-L-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
BELL WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 8  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

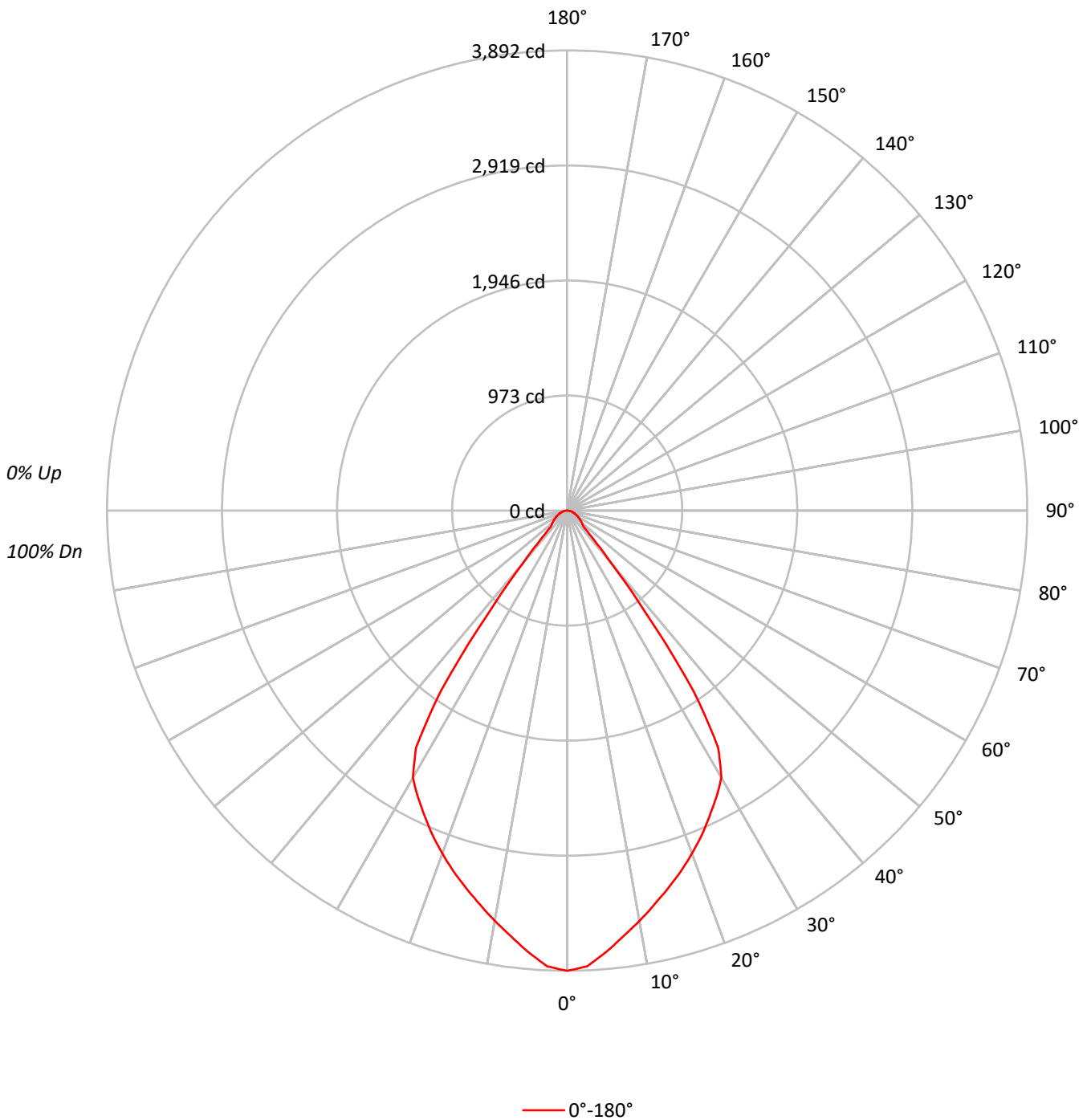
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4123.5 lumens  
Efficiency: N/A  
Efficacy: 59.2 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 69.7  
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: 0.333 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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	85	80	76	83	78	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	71	67	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	57	54	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	51	49
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46

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

	0°
0°	30966
5°	29949
10°	28469
15°	27216
20°	26133
25°	25016
30°	23963
35°	18075
40°	6017
45°	2230
50°	2026
55°	1852
60°	1679
65°	1542
70°	1454
75°	1389
80°	1283
85°	1178

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2230 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.7	8.5
10°-20°	930.6	22.6
20°-30°	1313.1	31.8
30°-40°	1061.2	25.7
40°-50°	203.1	4.9
50°-60°	120.0	2.9
60°-70°	82.1	2.0
70°-80°	47.7	1.2
80°-90°	14.9	0.4
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°	2594.4	62.9
0°-40°	3655.6	88.7
0°-60°	3978.8	96.5
0°-90°	4123.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4123.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3892	
5°	3750	351
15°	3304	931
25°	2850	1313
35°	1861	1061
45°	198	203
55°	134	120
65°	82	82
75°	45	48
85°	13	15
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3892.3
2.5°	3857.8
5°	3750.1
7.5°	3631.7
10°	3524.0
12.5°	3412.0
15°	3304.3
17.5°	3198.7
20°	3086.7
22.5°	2972.5
25°	2849.8
27.5°	2733.4
30°	2608.5
32.5°	2378.0
35°	1861.1
37.5°	1098.5
40°	579.4
42.5°	325.3
45°	198.2
47.5°	174.5
50°	163.7
52.5°	148.6
55°	133.5
57.5°	120.6
60°	105.5
62.5°	94.8
65°	81.9
67.5°	71.1
70°	62.5
72.5°	53.9
75°	45.2
77.5°	36.6
80°	28.0
82.5°	21.5
85°	12.9
87.5°	6.5
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	8.89	9.94	9.26	10.25	10.57	8.89	9.94	9.26	10.25	10.57
	3H	10.36	11.28	10.74	11.62	11.98	10.36	11.28	10.74	11.62	11.98
	4H	10.96	11.82	11.37	12.18	12.56	10.96	11.82	11.37	12.18	12.56
	6H	11.42	12.21	11.84	12.58	12.98	11.42	12.21	11.84	12.58	12.98
	8H	11.59	12.33	12.02	12.72	13.13	11.59	12.33	12.02	12.72	13.13
	12H	11.69	12.40	12.12	12.78	13.21	11.69	12.40	12.12	12.78	13.21
4H	2H	9.31	10.17	9.72	10.53	10.92	9.31	10.17	9.72	10.53	10.92
	3H	11.01	11.72	11.43	12.13	12.53	11.01	11.72	11.43	12.13	12.53
	4H	11.75	12.38	12.19	12.80	13.25	11.75	12.38	12.19	12.80	13.25
	6H	12.34	12.88	12.81	13.33	13.80	12.34	12.88	12.81	13.33	13.80
	8H	12.56	13.06	13.03	13.51	13.98	12.56	13.06	13.03	13.51	13.98
	12H	12.71	13.14	13.20	13.63	14.11	12.71	13.14	13.20	13.63	14.11
8H	4H	11.98	12.48	12.45	12.93	13.40	11.98	12.48	12.45	12.93	13.40
	6H	12.70	13.11	13.21	13.61	14.09	12.70	13.11	13.21	13.61	14.09
	8H	13.01	13.37	13.54	13.89	14.39	13.01	13.37	13.54	13.89	14.39
	12H	13.26	13.56	13.78	14.06	14.64	13.26	13.56	13.78	14.06	14.64
12H	4H	11.98	12.41	12.47	12.90	13.38	11.98	12.41	12.47	12.90	13.38
	6H	12.75	13.10	13.28	13.62	14.12	12.75	13.10	13.28	13.62	14.12
	8H	13.12	13.43	13.64	13.92	14.50	13.12	13.43	13.64	13.92	14.50