

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: P866506

Luminaire Tested: PRLX-2004-M-930-45L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866506  
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-930-45L-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 5  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

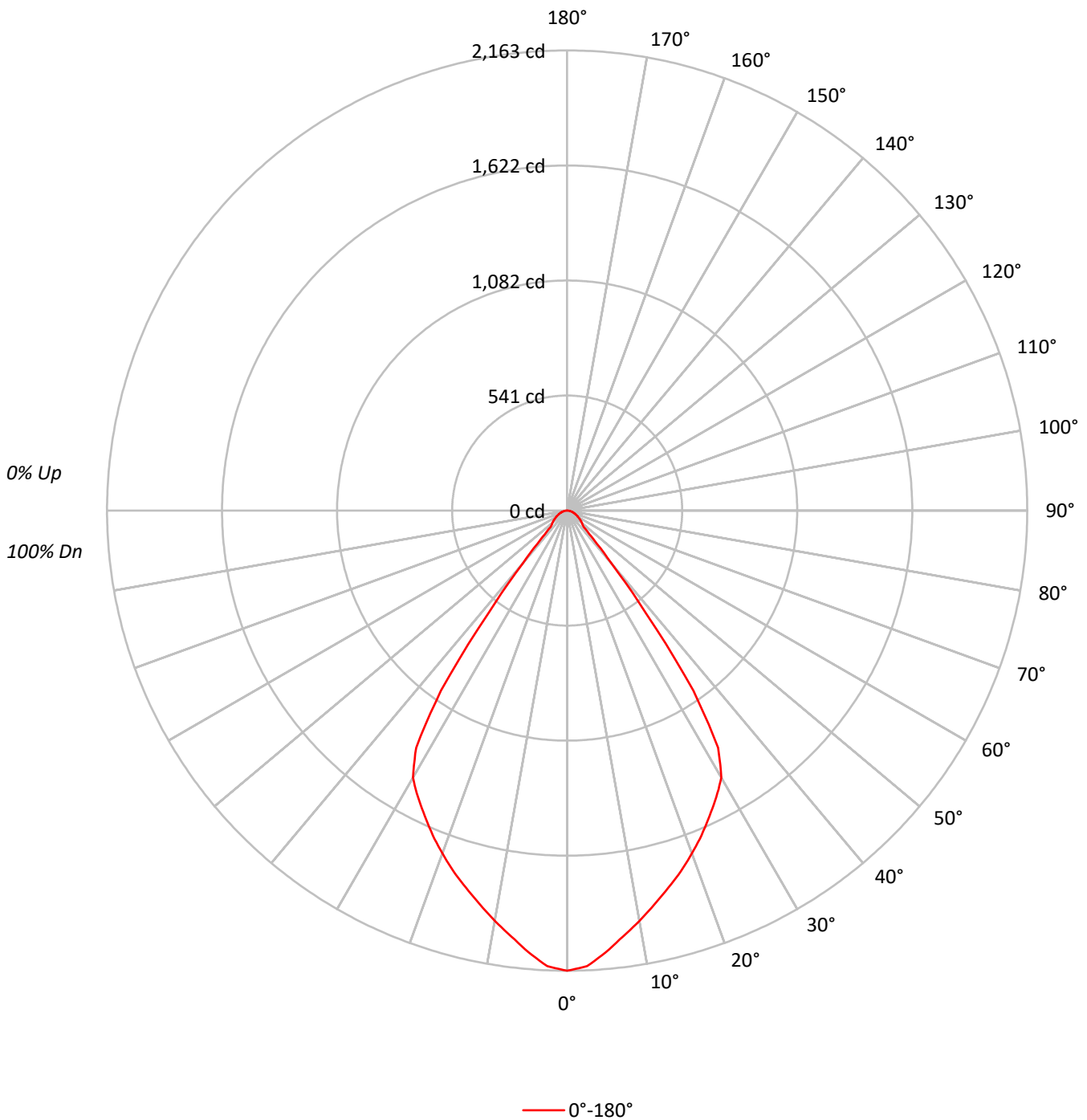
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2291.2 lumens  
Efficiency: N/A  
Efficacy: 59.1 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): 38.8  
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	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°	17206
5°	16641
10°	15818
15°	15122
20°	14521
25°	13899
30°	13315
35°	10043
40°	3344
45°	1239
50°	1126
55°	1029
60°	932
65°	857
70°	807
75°	772
80°	715
85°	657

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1239 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.9	8.5
10°-20°	517.1	22.6
20°-30°	729.6	31.8
30°-40°	589.7	25.7
40°-50°	112.9	4.9
50°-60°	66.7	2.9
60°-70°	45.6	2.0
70°-80°	26.5	1.2
80°-90°	8.3	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°	1441.6	62.9
0°-40°	2031.2	88.7
0°-60°	2210.8	96.5
0°-90°	2291.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2291.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2163	
5°	2084	195
15°	1836	517
25°	1583	730
35°	1034	590
45°	110	113
55°	74	67
65°	46	46
75°	25	26
85°	7	8
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2162.7
2.5°	2143.6
5°	2083.7
7.5°	2017.9
10°	1958.0
12.5°	1895.8
15°	1836.0
17.5°	1777.3
20°	1715.1
22.5°	1651.6
25°	1583.4
27.5°	1518.8
30°	1449.4
32.5°	1321.3
35°	1034.1
37.5°	610.4
40°	322.0
42.5°	180.7
45°	110.1
47.5°	96.9
50°	91.0
52.5°	82.6
55°	74.2
57.5°	67.0
60°	58.6
62.5°	52.7
65°	45.5
67.5°	39.5
70°	34.7
72.5°	29.9
75°	25.1
77.5°	20.3
80°	15.6
82.5°	12.0
85°	7.2
87.5°	3.6
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	6.85	7.90	7.22	8.21	8.53	6.85	7.90	7.22	8.21	8.53
	3H	8.31	9.24	8.70	9.57	9.94	8.31	9.24	8.70	9.57	9.94
	4H	8.92	9.78	9.33	10.13	10.52	8.92	9.78	9.33	10.13	10.52
	6H	9.38	10.16	9.79	10.54	10.93	9.38	10.16	9.79	10.54	10.93
	8H	9.54	10.28	9.98	10.68	11.09	9.54	10.28	9.98	10.68	11.09
	12H	9.65	10.36	10.08	10.74	11.17	9.65	10.36	10.08	10.74	11.17
4H	2H	7.27	8.13	7.68	8.48	8.87	7.27	8.13	7.68	8.48	8.87
	3H	8.97	9.67	9.38	10.08	10.49	8.97	9.67	9.38	10.08	10.49
	4H	9.71	10.34	10.14	10.76	11.21	9.71	10.34	10.14	10.76	11.21
	6H	10.30	10.84	10.77	11.29	11.76	10.30	10.84	10.77	11.29	11.76
	8H	10.51	11.02	10.99	11.47	11.94	10.51	11.02	10.99	11.47	11.94
	12H	10.67	11.10	11.16	11.59	12.07	10.67	11.10	11.16	11.59	12.07
8H	4H	9.93	10.43	10.41	10.88	11.36	9.93	10.43	10.41	10.88	11.36
	6H	10.66	11.06	11.17	11.56	12.05	10.66	11.06	11.17	11.56	12.05
	8H	10.97	11.33	11.50	11.85	12.35	10.97	11.33	11.50	11.85	12.35
	12H	11.22	11.53	11.74	12.02	12.60	11.22	11.53	11.74	12.02	12.60
12H	4H	9.93	10.37	10.42	10.86	11.33	9.93	10.37	10.42	10.86	11.33
	6H	10.70	11.06	11.23	11.58	12.08	10.70	11.06	11.23	11.58	12.08
	8H	11.08	11.39	11.60	11.88	12.46	11.08	11.39	11.60	11.88	12.46