

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: P866565

Luminaire Tested: PRLX-2004-M-935-45L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-43)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-M-935-45L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
BELL WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

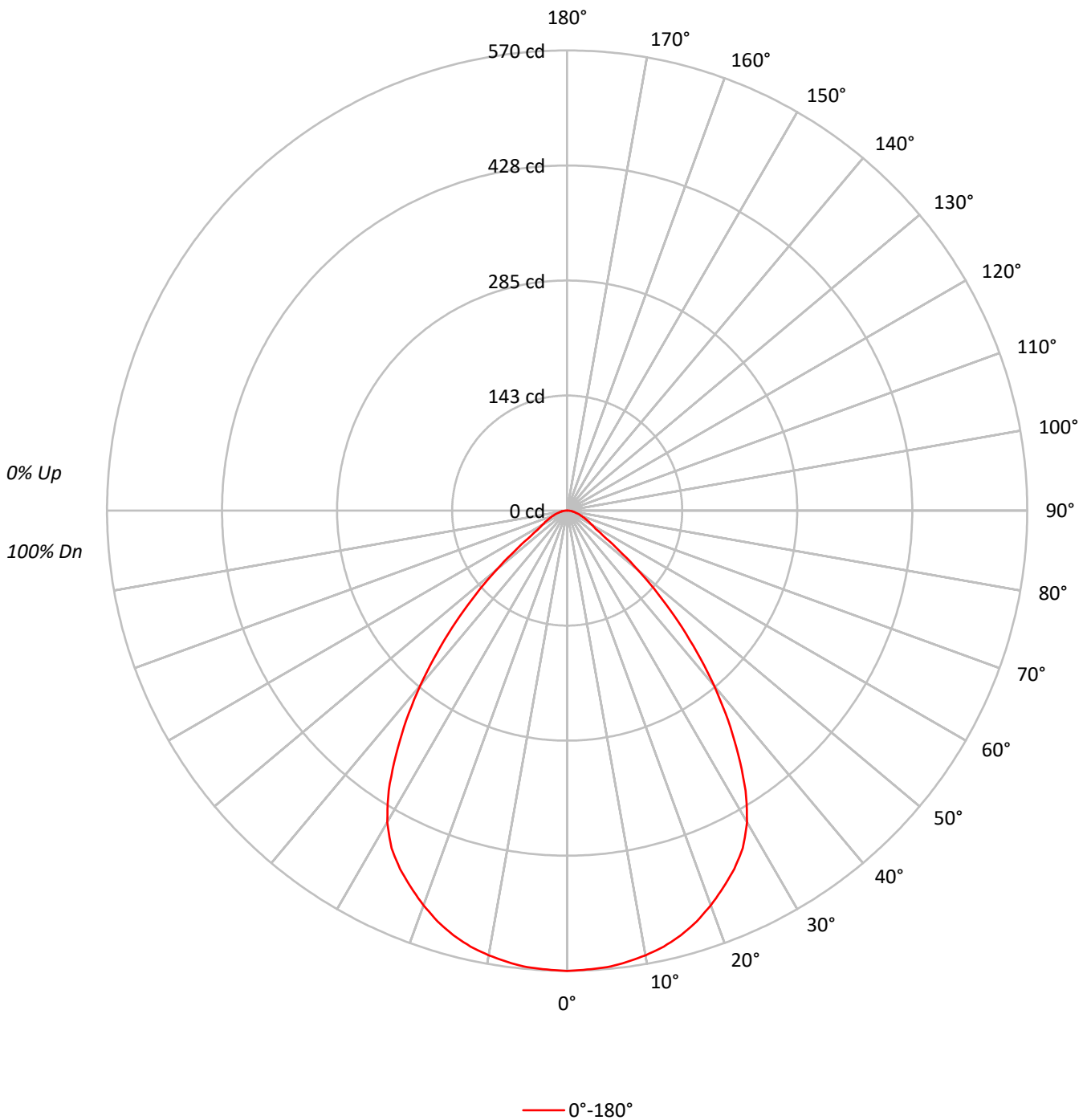
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 910.4 lumens  
Efficiency: N/A  
Efficacy: 23.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14  
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: 0.5 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	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	74	70	79	73	69	76	72	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38

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

	0°
0°	4537
5°	4535
10°	4518
15°	4486
20°	4404
25°	4299
30°	4094
35°	3594
40°	2942
45°	2185
50°	1406
55°	761
60°	563
65°	482
70°	426
75°	375
80°	334
85°	338

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2185 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.9	5.9
10°-20°	153.3	16.8
20°-30°	224.6	24.7
30°-40°	229.4	25.2
40°-50°	149.9	16.5
50°-60°	55.7	6.1
60°-70°	25.9	2.8
70°-80°	13.4	1.5
80°-90°	4.3	0.5
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°	431.8	47.4
0°-40°	661.2	72.6
0°-60°	866.8	95.2
0°-90°	910.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	910.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	570	
5°	568	54
15°	545	153
25°	490	225
35°	370	229
45°	194	150
55°	55	56
65°	26	26
75°	12	13
85°	4	4
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	570.3
2.5°	569.0
5°	567.8
7.5°	564.1
10°	559.3
12.5°	553.2
15°	544.6
17.5°	533.6
20°	520.2
22.5°	505.5
25°	489.7
27.5°	471.3
30°	445.7
32.5°	411.5
35°	370.0
37.5°	327.3
40°	283.3
42.5°	238.1
45°	194.2
47.5°	152.6
50°	113.6
52.5°	80.6
55°	54.9
57.5°	41.5
60°	35.4
62.5°	30.5
65°	25.6
67.5°	22.0
70°	18.3
72.5°	15.9
75°	12.2
77.5°	9.8
80°	7.3
82.5°	6.1
85°	3.7
87.5°	2.4
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	6.46	7.71	6.82	8.03	8.34	6.46	7.71	6.82	8.03	8.34
	3H	7.65	8.76	8.03	9.09	9.46	7.65	8.76	8.03	9.09	9.46
	4H	8.09	9.12	8.49	9.47	9.86	8.09	9.12	8.49	9.47	9.86
	6H	8.40	9.35	8.81	9.72	10.11	8.40	9.35	8.81	9.72	10.11
	8H	8.53	9.42	8.96	9.81	10.22	8.53	9.42	8.96	9.81	10.22
	12H	8.61	9.47	9.05	9.85	10.28	8.61	9.47	9.05	9.85	10.28
4H	2H	6.82	7.85	7.23	8.21	8.59	6.82	7.85	7.23	8.21	8.59
	3H	8.24	9.08	8.65	9.49	9.89	8.24	9.08	8.65	9.49	9.89
	4H	8.78	9.53	9.22	9.95	10.40	8.78	9.53	9.22	9.95	10.40
	6H	9.21	9.85	9.67	10.30	10.77	9.21	9.85	9.67	10.30	10.77
	8H	9.38	9.99	9.85	10.43	10.91	9.38	9.99	9.85	10.43	10.91
	12H	9.52	10.05	10.01	10.54	11.01	9.52	10.05	10.01	10.54	11.01
8H	4H	8.95	9.55	9.42	10.00	10.47	8.95	9.55	9.42	10.00	10.47
	6H	9.48	9.97	9.98	10.47	10.95	9.48	9.97	9.98	10.47	10.95
	8H	9.74	10.19	10.27	10.70	11.20	9.74	10.19	10.27	10.70	11.20
	12H	9.97	10.36	10.48	10.85	11.43	9.97	10.36	10.48	10.85	11.43
12H	4H	8.94	9.47	9.43	9.96	10.43	8.94	9.47	9.43	9.96	10.43
	6H	9.51	9.95	10.03	10.47	10.96	9.51	9.95	10.03	10.47	10.96
	8H	9.83	10.22	10.34	10.72	11.29	9.83	10.22	10.34	10.72	11.29