

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: P866289

Luminaire Tested: PRLX-2002-M-935-15L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866289  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-935-15L-L-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

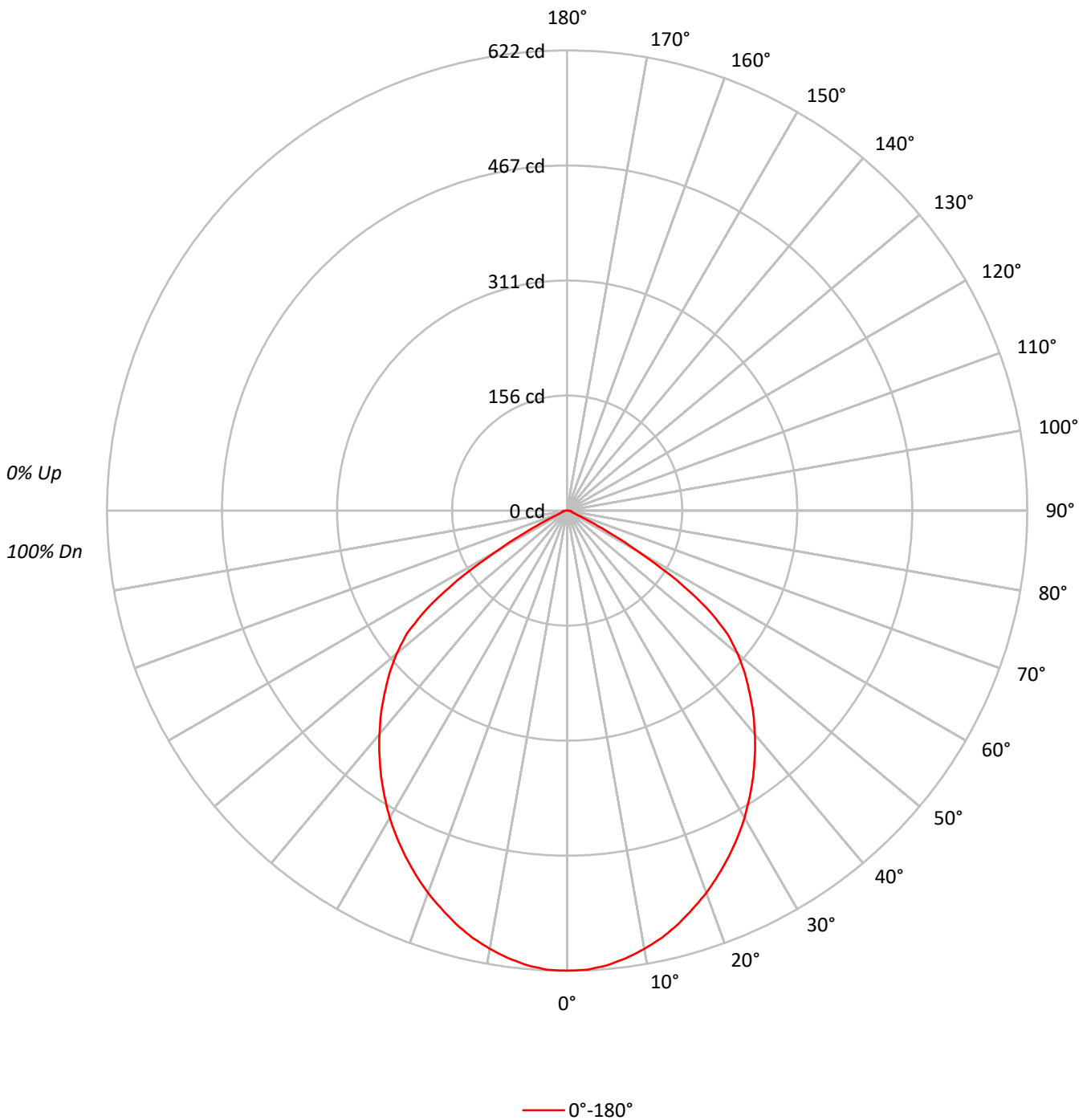
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1248.8 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14  
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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	45	38	34	44	38	34	44	38	33	43	37	33	32

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

	0°
0°	4948
5°	4928
10°	4860
15°	4767
20°	4656
25°	4534
30°	4405
35°	4258
40°	4100
45°	3924
50°	3723
55°	3207
60°	1768
65°	499
70°	198
75°	212
80°	243
85°	301

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3924 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.4	4.7
10°-20°	163.0	13.1
20°-30°	237.8	19.0
30°-40°	274.0	21.9
40°-50°	269.0	21.5
50°-60°	197.3	15.8
60°-70°	38.6	3.1
70°-80°	7.3	0.6
80°-90°	3.3	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°	459.2	36.8
0°-40°	733.2	58.7
0°-60°	1199.6	96.1
0°-90°	1248.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1248.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	622	
5°	617	58
15°	579	163
25°	516	238
35°	438	274
45°	349	269
55°	231	197
65°	26	39
75°	7	7
85°	3	3
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	621.9
2.5°	621.1
5°	617.1
7.5°	610.1
10°	601.6
12.5°	591.4
15°	578.8
17.5°	564.6
20°	549.9
22.5°	533.6
25°	516.5
27.5°	498.6
30°	479.5
32.5°	459.1
35°	438.4
37.5°	416.8
40°	394.8
42.5°	372.4
45°	348.8
47.5°	325.6
50°	300.8
52.5°	272.7
55°	231.2
57.5°	177.1
60°	111.1
62.5°	59.8
65°	26.5
67.5°	12.2
70°	8.5
72.5°	7.7
75°	6.9
77.5°	6.1
80°	5.3
82.5°	4.5
85°	3.3
87.5°	1.6
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	15.10	16.53	15.47	16.84	17.16	15.10	16.53	15.47	16.84	17.16
	3H	15.01	16.27	15.39	16.60	16.96	15.01	16.27	15.39	16.60	16.96
	4H	14.95	16.12	15.36	16.47	16.86	14.95	16.12	15.36	16.47	16.86
	6H	14.90	15.97	15.31	16.34	16.74	14.90	15.97	15.31	16.34	16.74
	8H	14.87	15.89	15.30	16.28	16.68	14.87	15.89	15.30	16.28	16.68
	12H	14.84	15.81	15.27	16.20	16.63	14.84	15.81	15.27	16.20	16.63
4H	2H	14.96	16.13	15.37	16.48	16.86	14.96	16.13	15.37	16.48	16.86
	3H	14.88	15.82	15.29	16.23	16.63	14.88	15.82	15.29	16.23	16.63
	4H	14.82	15.66	15.26	16.08	16.52	14.82	15.66	15.26	16.08	16.52
	6H	14.78	15.50	15.24	15.95	16.41	14.78	15.50	15.24	15.95	16.41
	8H	14.74	15.42	15.21	15.86	16.33	14.74	15.42	15.21	15.86	16.33
	12H	14.72	15.32	15.20	15.80	16.27	14.72	15.32	15.20	15.80	16.27
8H	4H	14.71	15.38	15.17	15.83	16.30	14.71	15.38	15.17	15.83	16.30
	6H	14.65	15.21	15.15	15.70	16.18	14.65	15.21	15.15	15.70	16.18
	8H	14.61	15.12	15.13	15.63	16.12	14.61	15.12	15.13	15.63	16.12
	12H	14.60	15.05	15.11	15.55	16.11	14.60	15.05	15.11	15.55	16.11
12H	4H	14.66	15.27	15.15	15.75	16.22	14.66	15.27	15.15	15.75	16.22
	6H	14.59	15.10	15.11	15.61	16.10	14.59	15.10	15.11	15.61	16.10
	8H	14.58	15.03	15.09	15.53	16.09	14.58	15.03	15.09	15.53	16.09