

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: P867069

Luminaire Tested: PRLX-2002-L-935-15L-L-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-935-15L-L-X-X-BRSS-X  
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

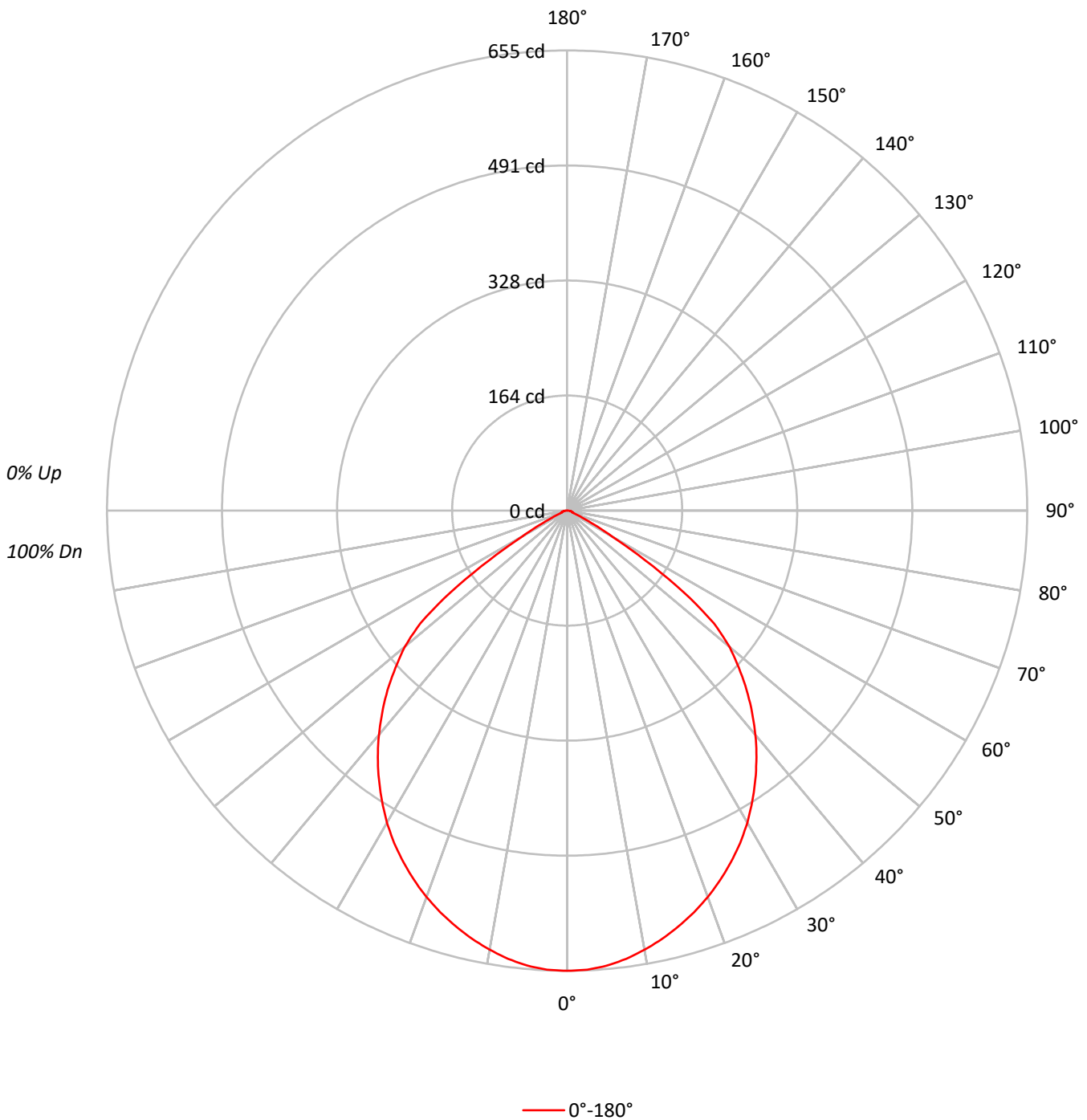
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1271.7 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.4  
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	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33

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

	0°
0°	3232
5°	3220
10°	3180
15°	3130
20°	3074
25°	3004
30°	2922
35°	2814
40°	2686
45°	2522
50°	2317
55°	1743
60°	734
65°	271
70°	124
75°	135
80°	156
85°	181

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2522 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.6	4.8
10°-20°	172.7	13.6
20°-30°	254.0	20.0
30°-40°	291.8	22.9
40°-50°	278.0	21.9
50°-60°	174.0	13.7
60°-70°	28.8	2.3
70°-80°	7.5	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°	488.3	38.4
0°-40°	780.1	61.3
0°-60°	1232.1	96.9
0°-90°	1271.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	655	
5°	650	62
15°	613	173
25°	552	254
35°	467	292
45°	362	278
55°	203	174
65°	23	29
75°	7	7
85°	3	3
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	655.0
2.5°	654.3
5°	650.2
7.5°	643.6
10°	634.7
12.5°	624.6
15°	612.7
17.5°	599.8
20°	585.4
22.5°	569.3
25°	551.9
27.5°	533.5
30°	512.9
32.5°	490.5
35°	467.2
37.5°	442.7
40°	417.0
42.5°	389.6
45°	361.5
47.5°	331.4
50°	301.9
52.5°	263.6
55°	202.6
57.5°	130.9
60°	74.4
62.5°	42.2
65°	23.2
67.5°	10.9
70°	8.6
72.5°	7.9
75°	7.1
77.5°	6.3
80°	5.5
82.5°	4.4
85°	3.2
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	11.29	12.69	11.66	13.00	13.31	11.29	12.69	11.66	13.00	13.31
	3H	11.21	12.43	11.59	12.76	13.13	11.21	12.43	11.59	12.76	13.13
	4H	11.16	12.30	11.57	12.65	13.03	11.16	12.30	11.57	12.65	13.03
	6H	11.12	12.17	11.54	12.54	12.93	11.12	12.17	11.54	12.54	12.93
	8H	11.10	12.09	11.53	12.48	12.88	11.10	12.09	11.53	12.48	12.88
	12H	11.08	12.02	11.51	12.41	12.84	11.08	12.02	11.51	12.41	12.84
4H	2H	11.16	12.30	11.56	12.65	13.03	11.16	12.30	11.56	12.65	13.03
	3H	11.09	12.01	11.51	12.41	12.82	11.09	12.01	11.51	12.41	12.82
	4H	11.05	11.87	11.49	12.29	12.73	11.05	11.87	11.49	12.29	12.73
	6H	11.03	11.74	11.49	12.18	12.65	11.03	11.74	11.49	12.18	12.65
	8H	11.01	11.67	11.48	12.11	12.58	11.01	11.67	11.48	12.11	12.58
	12H	11.00	11.58	11.48	12.06	12.54	11.00	11.58	11.48	12.06	12.54
8H	4H	10.94	11.60	11.41	12.05	12.52	10.94	11.60	11.41	12.05	12.52
	6H	10.92	11.46	11.42	11.96	12.44	10.92	11.46	11.42	11.96	12.44
	8H	10.91	11.40	11.43	11.91	12.41	10.91	11.40	11.43	11.91	12.41
	12H	10.91	11.36	11.43	11.85	12.42	10.91	11.36	11.43	11.85	12.42
12H	4H	10.90	11.49	11.39	11.97	12.44	10.90	11.49	11.39	11.97	12.44
	6H	10.87	11.36	11.39	11.88	12.37	10.87	11.36	11.39	11.88	12.37
	8H	10.88	11.32	11.39	11.82	12.39	10.88	11.32	11.39	11.82	12.39