

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: P866941

Luminaire Tested: PRLX-2002-L-927-15L-L-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866941  
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-927-15L-L-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

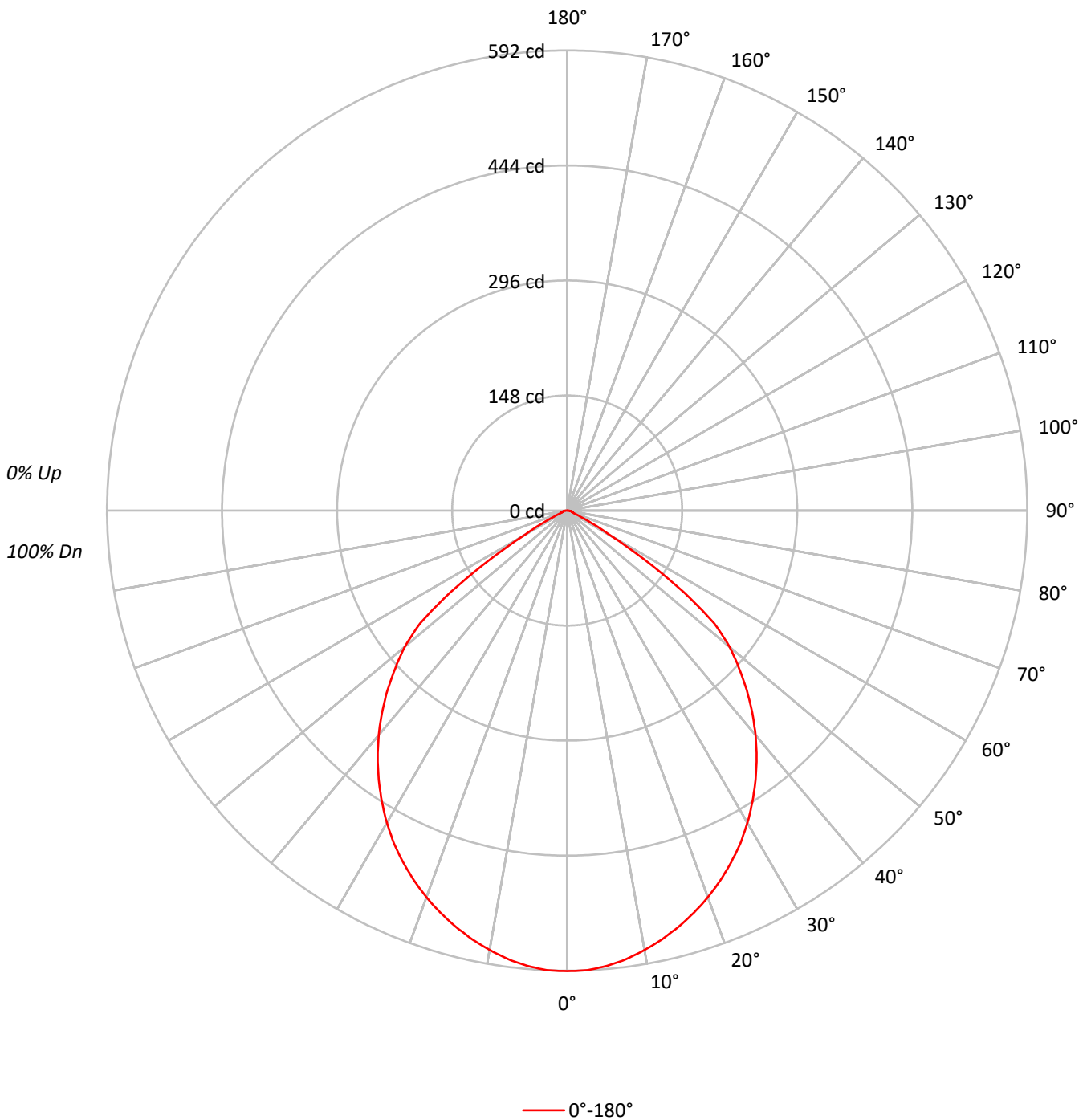
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1150.3 lumens  
Efficiency: N/A  
Efficacy: 70.1 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	83	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°	2923
5°	2913
10°	2876
15°	2831
20°	2780
25°	2718
30°	2643
35°	2545
40°	2429
45°	2281
50°	2096
55°	1577
60°	664
65°	245
70°	113
75°	124
80°	142
85°	164

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2281 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	4.8
10°-20°	156.2	13.6
20°-30°	229.8	20.0
30°-40°	263.9	22.9
40°-50°	251.4	21.9
50°-60°	157.5	13.7
60°-70°	26.1	2.3
70°-80°	6.8	0.6
80°-90°	3.0	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°	441.7	38.4
0°-40°	705.6	61.3
0°-60°	1114.5	96.9
0°-90°	1150.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1150.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	592	
5°	588	56
15°	554	156
25°	499	230
35°	423	264
45°	327	251
55°	183	157
65°	21	26
75°	6	7
85°	3	3
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	592.5
2.5°	591.9
5°	588.1
7.5°	582.1
10°	574.1
12.5°	564.9
15°	554.2
17.5°	542.5
20°	529.5
22.5°	515.0
25°	499.3
27.5°	482.6
30°	463.9
32.5°	443.7
35°	422.6
37.5°	400.4
40°	377.2
42.5°	352.4
45°	326.9
47.5°	299.8
50°	273.1
52.5°	238.5
55°	183.3
57.5°	118.4
60°	67.3
62.5°	38.1
65°	21.0
67.5°	9.9
70°	7.8
72.5°	7.2
75°	6.5
77.5°	5.7
80°	5.0
82.5°	4.0
85°	2.9
87.5°	1.5
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	10.94	12.34	11.31	12.65	12.96	10.94	12.34	11.31	12.65	12.96
	3H	10.86	12.08	11.24	12.41	12.78	10.86	12.08	11.24	12.41	12.78
	4H	10.82	11.95	11.22	12.30	12.69	10.82	11.95	11.22	12.30	12.69
	6H	10.78	11.82	11.19	12.19	12.58	10.78	11.82	11.19	12.19	12.58
	8H	10.75	11.74	11.18	12.13	12.54	10.75	11.74	11.18	12.13	12.54
	12H	10.73	11.68	11.16	12.06	12.49	10.73	11.68	11.16	12.06	12.49
4H	2H	10.81	11.95	11.21	12.30	12.68	10.81	11.95	11.21	12.30	12.68
	3H	10.75	11.66	11.16	12.07	12.47	10.75	11.66	11.16	12.07	12.47
	4H	10.70	11.52	11.14	11.94	12.38	10.70	11.52	11.14	11.94	12.38
	6H	10.68	11.39	11.15	11.83	12.30	10.68	11.39	11.15	11.83	12.30
	8H	10.66	11.32	11.13	11.77	12.24	10.66	11.32	11.13	11.77	12.24
	12H	10.65	11.23	11.14	11.71	12.19	10.65	11.23	11.14	11.71	12.19
8H	4H	10.60	11.25	11.06	11.70	12.17	10.60	11.25	11.06	11.70	12.17
	6H	10.57	11.12	11.08	11.61	12.09	10.57	11.12	11.08	11.61	12.09
	8H	10.56	11.05	11.08	11.57	12.06	10.56	11.05	11.08	11.57	12.06
	12H	10.57	11.01	11.08	11.50	12.07	10.57	11.01	11.08	11.50	12.07
12H	4H	10.55	11.14	11.04	11.62	12.09	10.55	11.14	11.04	11.62	12.09
	6H	10.52	11.01	11.04	11.53	12.02	10.52	11.01	11.04	11.53	12.02
	8H	10.53	10.98	11.05	11.47	12.04	10.53	10.98	11.05	11.47	12.04